

**INFORMAZIONI PERSONALI**

**Luigi Mondello**

 Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università degli Studi di Messina, viale Annunziata s.n.c., 98168 – Messina, Italia

 +39-090-6766536  +39-339-2620612

 [lmondello@unime.it](mailto:lmondello@unime.it)

 <http://www.sepsci.unime.it>

(<https://orcid.org/0000-0002-8890-675X>)

Sesso Maschio | Data di nascita 27/07/1966 | Nazionalità Italiana

**ESPERIENZA LAVORATIVA**

Ottobre 17, 2013-Febbraio 6, 2018

Delegato alla Ricerca (Area Scienze e Tecnologia) presso l'Università degli Studi di Messina.

A.A. 2005-2013

Membro del Nucleo di Valutazione dell'Università di Messina

Da Novembre 2008 ad oggi

Professore di I fascia confermato, gruppo Scientifico-Disciplinare CHIM/01 "Chimica Analitica" - presso il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università degli Studi di Messina.

Novembre 2005

Professore Straordinario, gruppo Scientifico-Disciplinare CHIM/01 "Chimica Analitica" - presso il Dipartimento Farmaco-chimico della Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina.

Maggio 2003

Professore di II fascia confermato, gruppo Scientifico Disciplinare CHIM/10 "Chimica degli Alimenti" - presso il Dipartimento Farmaco-chimico della Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina.

Maggio 2000

Professore di II fascia, gruppo Scientifico Disciplinare CHIM/10 "Chimica degli Alimenti" - presso il Dipartimento Farmaco-chimico della Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina.

Febbraio 1999

Conferma scientifica per il triennio 96/99, Settore Scientifico Disciplinare C09A "Chimica degli Alimenti" - presso il Dipartimento Farmaco-chimico della Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina.

Febbraio 1996

Ricercatore Universitario - gruppo C09A "Chimica degli Alimenti" - presso il Dipartimento Farmaco-chimico della Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina.

**ISTRUZIONE E FORMAZIONE**

Luglio 1991

Laurea in Chimica - Università degli Studi di Messina, Messina.

Luglio 1985

Maturità scientifica - "Liceo Scientifico Archimede", Messina.

**CAPACITA' E COMPETENZE PERSONALI**

Madre lingua

Italiano

Altre lingue

| CAPACITA' DI LETTURA |         | CAPACITA' DI ESPRESSIONE ORALE |                  | CAPACITA' DI SCRITTURA |
|----------------------|---------|--------------------------------|------------------|------------------------|
| Ascolto              | Lettura | Interazione                    | Produzione orale | Produzione scritta     |

|         |    |    |    |    |    |
|---------|----|----|----|----|----|
| Inglese | B2 | C1 | B2 | B1 | B1 |
|---------|----|----|----|----|----|

**Competenze comunicative** Buone competenze comunicative acquisite attraverso la partecipazione a congressi internazionali (1578 presentazioni a congressi, tra le quali 230 presentazioni orali su invito come nel documento in allegato) ed attraverso la collaborazione con compagnie analitiche internazionali (Shimadzu Corporation, Meck Millipore Sigma prima Sigma-Aldrich/Supelco).

**Competenze organizzative e gestionali** Co-Presidente del Messina Institute of Technology (MeIT) presso l'Università di Messina. Membro del Comitato Tecnico Scientifico della Società Chromaleont S.r.L. incubata presso il Dipartimento ChiBioFarAm dell'Università di Messina (ente di ricerca riconosciuto dal MUR). Ottime capacità organizzative (pianificazione a breve e lungo termine, ottimizzazione dei tempi, attenzione ai dettagli ed assegnazione delle priorità) acquisite come responsabile scientifico di numerosi progetti di ricerca finanziati e in qualità di membro del Comitato organizzatore di numerosi congressi scientifici nazionali ed internazionali.

**Competenze professionali** Avanzate competenze nello sviluppo di strumentazione analitica (prototipi), programmi dedicati per l'elaborazione di analisi chimiche (ChromSquare software, ChromatoPlus Spectra Software) e librerie spettrali (FFNSC Library, LIPIDS Library, Pesticides GC/MS Library). Consulente nel campo della Scienza delle Separazioni. Supervisione e valutazione critica come esperto di controllo di qualità e procedure di validazione di metodi analitici (esperienza acquisita in qualità di membro del Comitato del Sistema Nazionale di Accreditamento di laboratori (ACCREDIA), con responsabilità per l'accreditamento di più di 100 laboratori).

|                     |                              |                 |                        |                 |                         |
|---------------------|------------------------------|-----------------|------------------------|-----------------|-------------------------|
| Competenze digitali | AUTOVALUTAZIONE              |                 |                        |                 |                         |
|                     | Elaborazione di informazioni | Comunicazione   | Creazione di contenuti | Sicurezza       | Risoluzione di problemi |
|                     | Utente avanzato              | Utente avanzato | Utente avanzato        | Utente autonomo | Utente autonomo         |

**Altre competenze** Vela, Immersioni subacquee, fotografia

**Patente di guida** A, B

| INFORMAZIONI ADDIZIONALI                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>ESPERIENZA DIREZIONALE DI APPARATI E RISORSE E DEI LORO PROCESSI DI GESTIONE, MATURATA PRESSO LE UNIVERSITÀ E/O GLI ENTI DI RICERCA O PRESSO ISTITUZIONI PUBBLICHE O PRIVATE</p> <p>E</p> | <p>Dal 17 ottobre 2013 al 6 febbraio 2018. Delegato alla Ricerca (Area Scienze e Tecnologia) presso l'Università degli Studi di Messina.</p> <p>2005-2013. Membro del Nucleo di Valutazione dell'Università di Messina.</p> <p>Dal 2007 al 2022 Membro della Commissione Centrale Tecnica del Sistema Nazionale per l'Accreditamento di Laboratori (SINAL/ACCREDIA).</p> <p>Attività Editoriale di Editor e Editor in Chief (vedasi il paragrafo a seguire ATTIVITA' EDITORIALI)</p> <p>Advisory Board di Riviste Scientifiche (vedasi il paragrafo a seguire PARTECIPAZIONE A</p> |

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| <p>DOCUMENTATE CONOSCENZE NEL CAMPO DELLA VALUTAZIONE DELLE ATTIVITÀ DEL SISTEMA UNIVERSITARIO E DELLA RICERCA.</p> | <p>COMITATI CONSULTIVI DI RIVISTE SCIENTIFICHE (JOURNAL ADVISORY BOARD).</p> <p>Membro della Commissione Biocidi del Ministero della Salute Italiano.</p> <p>Attività di referaggio per circa 80 Riviste Scientifiche (vedasi il paragrafo a seguire ATTIVITÀ DI RECENSORE DI RIVISTE SCIENTIFICHE (REVIEWER))</p> <p>Chairman di Congressi e membro di comitati scientifici di Congressi coinvolti nella selezione di contributi scientifici (vedasi il paragrafo a seguire CHAIRMAN E PARTECIPAZIONE A COMITATI SCIENTIFICI DI CONGRESSI)</p> <p>Coordinazione di Progetti di Ricerca (vedasi il paragrafo a seguire PARTECIPAZIONE A PROGETTI DI RICERCA).</p> <p>Organizzazione di Congressi Scientifici (vedasi il paragrafo a seguire PARTECIPAZIONE A COMITATI ORGANIZZATORI DI CONGRESSI).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>AFFILIAZIONI E DIREZIONI SCIENTIFICHE</p>                                                                        | <p>Da Luglio 2023 Accademico Corrispondente e non Residente dell'Accademia delle Scienze dell'Istituto di Bologna (Classe Scienze Fisiche, I Sezione, Scienze Matematiche, Fisiche, Chimiche e Geologiche). <a href="https://site.unibo.it/accademiascienzebologna/it">https://site.unibo.it/accademiascienzebologna/it</a>.</p> <p>Da Gennaio 2023 a oggi – Membro del Comitato Sample Preparation Study Group “The European Chemical Society-Division of Analytical Chemistry (EuChemS-DAC).</p> <p>Da Giugno 2022 ad oggi delegato della Divisione di Chimica Analitica della Società Chimica Italiana nella European Chemical Society (EuChemS) Division of Analytical Chemistry (DAC).</p> <p>Da Gennaio 2022 a Dicembre 2024 – Presidente della Divisione di Chimica Analitica della Società Chimica Italiana.</p> <p>Da Gennaio 2021 ad oggi Membro del Scientific Committee of the European Industrial hemp Association (EIHA)</p> <p>Da Ottobre 2019 ad oggi Membro del Gruppo WG2. Automation, innovation and Entrepreneurships of the Sample Preparation Study Group “The European Chemical Society-Division of Analytical Chemistry (EuChemS-DAC)”</p> <p>Da Gennaio 2019 a Dicembre 2021 – vice-Presidente della Divisione di Chimica Analitica della Società Chimica Italiana.</p> <p>Da Gennaio 2016 al Dicembre 2018 - Presidente del Consiglio Direttivo del Gruppo Interdivisionale di Scienza delle Separazioni della Società Chimica Italiana.</p> <p>Dal 2013 ad oggi - Membro del Collegio Docenti del Dottorato di Ricerca in Chimica e Tecnologia Farmaceutiche e Nutraceutico-Alimentari presso l'Università degli Studi di Messina.</p> <p>Dal 2003 al 2013 - Coordinatore del Dottorato di Ricerca in “Chimica e Sicurezza degli Alimenti” presso l'Università degli Studi di Messina.</p> <p>Da Gennaio 2003 a Dicembre 2008 - Membro del Consiglio Direttivo del Gruppo Interdivisionale di Scienza delle Separazioni della Società Chimica Italiana.</p> <p>Membro del Comitato Scientifico dell'Istituto Internacional de Cromatografia (IIC), Sao Paulo, Brasile.</p> <p>Membro del gruppo di esperti di “Chromedia” (Chromatography Knowledge Base).</p> <p>Membro della Commissione Biocidi del Ministero della Salute Italiano.</p> |
| <p>PARTECIPAZIONI A</p>                                                                                             | <p>1578 presentazioni a Congressi di cui 228 Comunicazioni Orali ad invito (Vedi addendum a</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>CONGRESSI</b>                             | seguire "Elenco delle Partecipazioni a Congressi e Seminari").                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>PUBBLICAZIONI</b>                         | 769 Pubblicazioni Scientifiche (Vedi addendum a seguire "Elenco delle Pubblicazioni").                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ESPERIENZE DI INSEGNAMENTO ACCADEMICO</b> | <p>Dal 2022 ad oggi. Compito Istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università degli Studi di Messina per "Tecniche Analitiche Avanzate applicate all'Analisi degli Alimenti", per il corso di laurea specialistico in Scienze dell'Alimentazione e Nutrizione Umana (SANU).</p> <p>Dal 2006 al 2021 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università degli Studi di Messina per "Chimica Analitica", per il corso di Laurea specialistica in "Chimica e Tecnologia Farmaceutiche" (CTF).</p> <p>Dal 1999 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso il Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali dell'Università degli Studi di Messina per "Chimica Analitica", per il corso di Laurea specialistica in "Farmacia".</p> <p>Anno Accademico 2015/2016 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso il Dipartimento di Scienze Biomediche e delle Immagini Morfologiche e Funzionali dell'Università degli Studi di Messina per "Chimica Analitica", per il corso di Laurea specialistica in "Biotecnologie".</p> <p>Dal 2009 al 2013 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso il Dipartimento di Scienze del Farmaco e Prodotti per la Salute (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina per "Chimica Analitica", per il corso di Laurea in "Scienze Farmaceutiche Applicate".</p> <p>Dal 2006 al 2010 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso la Facoltà di Medicina e Chirurgia (oggi Dipartimento di Scienze Biomediche e delle Immagini Morfologiche e Funzionali) dell'Università degli Studi di Messina, per "Elementi di Chimica Analitica Strumentale", per il corso di Laurea in "Scienze della Enogastronomia Mediterranea e Salute".</p> <p>Dal 2008 al 2010 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso la Facoltà di Medicina e Chirurgia dell'Università Campus Bio-Medico di Roma per "Chimica Analitica", per il corso di Laurea triennale in "Scienze dell'Alimentazione e Nutrizione Umana".</p> <p>Anno Accademico 2003/2004 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/10 "Chimica degli Alimenti" presso la Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina per "Prodotti Dietetici", per il corso di Laurea Specialistica in "Farmacia" e per il corso di Laurea triennale in "Informazione Scientifica del Farmaco".</p> <p>Dal 2001 al 2009 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/10 "Chimica degli Alimenti" presso la Facoltà di Medicina e Chirurgia dell'Università Campus Bio-Medico di Roma per "Chimica bromatologica", per il corso di Laurea triennale in "Dietista".</p> <p>Anno Accademico 2008/2009 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/01 "Chimica Analitica" presso la Facoltà di Medicina e Chirurgia (oggi Dipartimento di Scienze Biomediche e delle Immagini Morfologiche e Funzionali) dell'Università degli Studi di Messina per "Analisi dei Prodotti Biotecnologici", per il corso di Laurea in "Biotecnologie della Salute".</p> <p>Dal 2000 al 2006 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/10 "Chimica degli Alimenti" presso la Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina per "Chimica Bromatologica",</p> |

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|                                                                                         | <p>per il corso di Laurea specialistica in "Farmacia".</p> <p>Anno Accademico 2000/2001 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/10 "Chimica degli Alimenti" presso la Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina per "Chimica dei Prodotti Dietetici", per il corso di Laurea specialistica in "Farmacia".</p> <p>Dal 1998 al 2001 - Compito istituzionale nel Settore Scientifico-Disciplinare CHIM/10 "Chimica degli Alimenti" presso la Facoltà di Farmacia (oggi Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali) dell'Università degli Studi di Messina per "Chimica dei Prodotti Cosmetici", per il corso di Laurea specialistica in "Farmacia".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p style="text-align: center;"><b>PREMI E<br/>RICONOSCIMENTI<br/>INTERNAZIONALI</b></p> | <p>Settembre 2024 – riceverà il "Tswett - Nernst European Award" da "European Tswett-Nernst Award Board" e la "Central European Group for Separation Sciences" (CEGSS).</p> <p>Agosto 2023. - "The Analytical Scientist Power List" the top ten worldwide scientist in the field of Separation Science section Top Ten of Leaders and Advocates for the ten years anniversary of the Analytical Scientist.</p> <p>Gennaio 2023. Top Italian Scientists. 52/416 nella sezione Chimica</p> <p>Dicembre 2021. "A.J.P. Martin Medal 2022" della "The Chromatographic Society", "For his outstanding contributions to the advancement of separation science</p> <p>Ottobre 2021 – "The Analytical Scientist Power List" The Top 100 Performers in Analytical Science.</p> <p>Ottobre 2020 - "The Analytical Scientist Power List" Around the World in 60 Scientists 10 analytical movers and shakers from each continent.</p> <p>Settembre 2020 – Prof. A. Waksmundzki Medal Award, Presidium of the Committee of the Analytical Chemistry of the Polish Academy of Science and Polish Chemical Society.</p> <p>Maggio 2019 – "Herbert J. Dutton Award" conferito dalla Divisione Analitica dell'AOCS</p> <p>Ottobre 2017 – "The 10 Top 10s of Analytical Science": inserimento nell'elenco dei 10 Scienziati in Scienza delle Separazioni per l'anno 2017.</p> <p>Settembre 2017 – "Robert Kellner Lecture Award" conferito dall'EuChemS DAC nella Conferenza Euroanalysis, Stoccolma, Svezia.</p> <p>Maggio 2017 – "Golay Award" conferito al 41<sup>st</sup> International Symposium on Capillary Chromatography, Forth Worth TX, USA.</p> <p>Maggio 2016 - "Life Time Achievements in Comprehensive Gas Chromatography" conferito al "13<sup>th</sup> GCxGC Symposium", Riva del Garda (TN), 30-31 Maggio 2016.</p> <p>Dicembre 2016 - The Analytical Scientist Innovation Awards (TASIAs).</p> <p>Dicembre 2015 – "The Analytical Scientist Innovation Awards (TASIAs) 2015" conferito da "The Analytical Scientist Journal".</p> <p>Ottobre 2015 - "The Analytical Scientist Power List": inserimento nell'elenco delle 100 persone più influenti nelle scienze analitiche a cura del "The Analytical Scientist Journal".</p> <p>Settembre 2014 - "IFEAT Medal" conferita dall' "International Federation of Essential Oils &amp; AromaTrades" (IFEAT) all'IFEAT Conference, Roma, 21-25 Settembre 2014.</p> <p>Ottobre 2013 - "The Analytical Scientist Power List": inserimento nell'elenco delle 100 persone più influenti nelle scienze analitiche a cura del "The Analytical Scientist Journal".</p> <p>Dicembre 2013 - "The Analytical Scientist Innovation Awards (TASIAs) 2013" conferito da "The Analytical Scientist Journal".</p> <p>Settembre 2012 - "Medaglia Liberti" conferita dalla Divisione di Chimica Analitica, Divisione di</p> |

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|                                                                              | <p>Chimica dell'Ambiente e dei Beni Culturali e dal Gruppo Interdivisionale di Scienza delle Separazioni della Società Chimica Italiana.</p> <p>Ottobre 2008 – “Colacro Medal” dell’ “Istituto Internacional de Cromatografia”, “Per il suo contributo allo sviluppo e alla diffusione della cromatografia e delle tecniche affini” conferito al XII Congresso Latino-americano de Cromatografia e Tecnicas Relacionadas (XII COLACRO), Florianopolis, Brasile, 28-30 Ottobre 2008.</p> <p>Febbraio 2008 – “Award of The Chromatographic Society's Silver Jubilee Medal” conferito dalla “The Chromatographic Society”, “Per il suo considerevole contributo allo sviluppo delle Scienze della Separazione”.</p> <p>Maggio 2008 - (Riva del Garda, Italy) è stato premiato da “The Chromatographic Society” con il “Silver Jubilee Medal for his Considerable Contribution to the Development of Separation Sciences”</p> <p>Giugno 2007 – Poster award “Evaluation of the use of a very short micro-bore column segment in very fast gas chromatography” conferito al “Dalian International Symposia and Exhibition on chromatography including 30<sup>th</sup> ISCC, 4<sup>th</sup> GCxGC and 16<sup>th</sup> NISEC”, Dalian (Cina), 4-7 Giugno 2007.</p> <p>Febbraio 2006 - “HTC-Award for the most outstanding and innovative work in the field of hyphenated chromatographic techniques” conferito dalla “Royal Flemish Chemical Society” al “Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers” (HTC-9), York (UK), 8-10 Febbraio 2006.</p> <p>Settembre 1998 – “Award for the best poster on Application of Chromatography including Electrokinetic Separations Methods”, conferito al “22nd International Symposium on Chromatography”, Roma, 13-18 Settembre 1998.</p> <p>Dicembre 1991 – “Le Migliori Idee Imprenditoriali”. Secondo posto per l'Università degli Studi di Messina.</p> |
| <p>CHAIRMAN e<br/>PARTECIPAZIONE A COMITATI<br/>SCIENTIFICI DI CONGRESSI</p> | <p>Co-Chairman del 28th International Symposium on Separation Sciences, Messina, Romania Settembre 22-25, 2024.</p> <p>Membro del Comitato Scientifico del “27th International Symposium on Separation Sciences, Cluj-Napoca, Romania Settembre 24-27, 2023.</p> <p>Presidente del Comitato Scientifico del XXX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana”, Vasto (CH), Settembre 17-21, 2023.</p> <p>Co-Chairman del “53rd International Symposium on Essential Oils (ISEO 2023)”, Milazzo (ME) Settembre 13-16, 2023.</p> <p>Membro del Comitato Scientifico del 1st Green and Sustainable Analytical Chemistry e-Conference.</p> <p>Chairman del XXIX Congresso Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana (SCI), Milazzo (ME), Italia, Settembre 11-15, 2022.</p> <p>Membro del Comitato Scientifico del “22<sup>nd</sup> International Symposium on Separation Sciences”, Torun (Polonia), 3-6 Luglio 2016.</p> <p>Membro del Comitato Scientifico del “18<sup>th</sup> International Symposium on Advances in Extraction Technologies”, Torun (Polonia), 3-6 Luglio 2016.</p> <p>Chairman del “41<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and the 13<sup>th</sup> GCxGC Symposium”, Riva del Garda (TN), 29 Maggio-03 Giugno 2016.</p> <p>Membro del Comitato Scientifico del “39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and the 12<sup>th</sup> GCxGC Symposium”, Forth Worth (Dallas), USA, 16-21 Maggio 2015.</p> <p>Membro del Comitato Scientifico del “20<sup>th</sup> International Symposium on Separation Sciences”, Praga (Repubblica Ceca), 30 Agosto-02 Settembre 2014.</p>                                                                                                                                                                                                                             |

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|                                                                    | <p>Chairman del 38<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and 11<sup>th</sup> GC×GC Symposium, Riva del Garda (TN), 18-23 Maggio 2014.</p> <p>Chairman di “Incontri di Scienza delle Separazioni”, Messina, 28-29 Novembre 2013.</p> <p>Membro del Comitato Scientifico del “37<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and 10<sup>th</sup> GCxGC Symposium”, Palm Springs (CA), USA, 12-16 Maggio 2013.</p> <p>Chairman del “14<sup>th</sup> International Symposium on Advances in Extraction Technologies (EXTECH)”, Messina, 24-26 Settembre 2012.</p> <p>Chairman del “36<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and 9<sup>th</sup> GCxGC Symposium”, Riva del Garda (TN), 27 Maggio-1 Giugno 2012.</p> <p>Membro del Comitato Scientifico del “16<sup>th</sup> International Symposium on Separation Sciences”, Roma, 6-10 Settembre 2010.</p> <p>Membro del Comitato Scientifico del “12<sup>th</sup> ExTech on Advance in Extraction Technologies”, Poznan, Polonia, 20-22 Settembre 2010.</p> <p>Co-Chairman del “34<sup>th</sup> International Symposium on Capillary Chromatography”, Riva del Garda (TN), 30 Maggio-04 Giugno 2010.</p> <p>Membro del Comitato Scientifico del “XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali”, Taormina (ME), 26-30 Settembre 2010.</p> <p>Membro del Comitato Scientifico Permanente dell’ “International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC)”, dalla nona edizione (dal 2008).</p> <p>Membro del Comitato Scientifico Permanente del “Congresso Latino-Americano de Cromatografia e Técnicas Relacionades (COLACRO)”, dalla dodicesima edizione (dal 2008).</p> <p>Membro del Comitato Scientifico di “Enantiosep ’07 Workshop Symposium on Analytical and Preparative Enantio Separation”, Ferrara, 2-4 Aprile 2007.</p> <p>Membro del Comitato Scientifico Permanente del “Brazilian Symposium on Chromatography and Related Techniques” (SIMCRO), dalla seconda edizione (dal 2006).</p> <p>Membro del Comitato Scientifico dell’ “11<sup>th</sup> International Symposium on Separation Sciences”, Pardubice (Repubblica Ceca), 12-14 Settembre, 2005.</p> <p>Membro del Comitato Scientifico Permanente dell’ “International Symposium on Capillary Chromatography”, dalla ventisettesima edizione (dal 2004).</p> <p>Membro del Comitato Scientifico Permanente dell’ “International Symposium on Essential Oils” dalla trentacinquesima edizione (dal 2004).</p> <p>Chairman del “35<sup>th</sup> International Symposium on Essential Oils”, Giardini Naxos (ME), 29 Settembre-2 Ottobre 2004.</p> |
| <p><b>PARTECIPAZIONE A COMITATI ORGANIZZATORI DI CONGRESSI</b></p> | <p>Membro del Comitato Organizzatore del “XXX Congresso della Divisione di Chimica Analitica”, Vasto (CH), Settembre 17-21, 2023.</p> <p>Presidente del Comitato Organizzatore del “XXIX Congresso della Divisione di Chimica Analitica”, Milazzo (ME), Italia, Settembre 11-15, 2022.</p> <p>Presidente del Comitato Organizzatore del “XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana”, Giardini Naxos (ME), 18-22 Settembre, 2016.</p> <p>Membro del Comitato Organizzatore del “35<sup>th</sup> International Symposium on Essential Oils”,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>Giardini Naxos (ME), 29 Ottobre-02 Settembre, 2004.</p> <p>Membro del Comitato Organizzatore del "27<sup>th</sup> International Symposium on Capillary Chromatography", Riva del Garda (TN), Maggio, 2004.</p> <p>Membro del Comitato Organizzatore del "25<sup>th</sup> International Symposium on Capillary Chromatography", Riva del Garda (TN), Maggio 2002.</p> <p>Membro del Comitato Organizzatore del Corso dal titolo: "Corso di HPLC e HPLC/MS" tenutosi presso la Facoltà di Farmacia, Università degli Studi di Messina, 19-22 Giugno 2000 in collaborazione con il Prof. Harold McNair, Virginia Tech, Blacksburg, Virginia, USA. Co-autore della versione italiana del testo didattico del corso.</p> <p>Membro del Comitato Organizzatore del "9<sup>th</sup> International Meeting on Recent Developments in Pharmaceutical Analysis", Lipari (ME), 13-8 Giugno 2001.</p> <p>Membro del Comitato Organizzatore del "23<sup>RD</sup> International Symposium on Capillary Chromatography", Riva del Garda (TN), 5-10 Giugno 2000.</p> <p>Membro del Comitato Organizzatore di un Seminario dal titolo: "Metodiche HPLC e HPLC/MS per lo studio di Sostanze Naturali Biologicamente Attive", tenutosi presso la Facoltà di Farmacia, Università degli Studi di Messina, 17 Marzo 1999.</p> <p>Membro del Comitato Organizzatore del "III Congresso Nazionale di Chimica degli Alimenti", Letojanni (ME), 7-8 Ottobre 1998.</p> <p>Membro del Comitato Organizzatore del congresso "Bergamoto 98", Reggio Calabria, 30 Novembre-02 Dicembre 1998.</p> <p>Membro del Comitato Organizzatore di un Corso dal titolo: "Corso di Gascromatografia" tenutosi presso la Facoltà di Farmacia, Università degli Studi di Messina, 9-12 Dicembre 1998 in collaborazione con il Prof. Harold McNair, Virginia Tech, Blacksburg, Virginia, USA. Co-autore della versione italiana del testo didattico del corso.</p> |
| <p><b>ATTIVITA' EDITORIALE</b></p> | <p>Da Marzo 2021 ad oggi. Editor di "Green Analytical Chemistry", Elsevier.</p> <p>Da Ottobre 2018 a Maggio 2023. Editor di "Analytical and Bioanalytical Chemistry" (ABC), Springer</p> <p>Novembre 2017 – Settembre 2018. Editor di "Separation Science Plus", John Wiley-VCH</p> <p>Da Gennaio 2016 a Febbraio 2020. Editor di "Food Analytical Methods", Springer.</p> <p>Da Aprile 2015. Editor in Chief di "Journal of Quality Assurance and Pharma Analysis", Innovational Publishers.</p> <p>Da Gennaio 2012 ad oggi. Editor in Chief di "Journal of Essential Oil Research", Taylor &amp; Francis.</p> <p>Co-Editor del libro "Comprehensive Chromatography in Combination with Mass Spectrometry" (Wiley-Interscience Series on Mass Spectrometry), John Wiley &amp; Sons, Ltd, 2011.</p> <p>Gennaio 2010-Dicembre 2011. Editor in Chief di "Journal of Essential Oil Research", Allured Publishing.</p> <p>Co-Editor del libro "Citrus oil: Composition, Advanced Analytical Techniques, Contaminants, and Biological Activity", CRC Press - Taylor &amp; Francis Group, 2011.</p> <p>Associate Editor del volume speciale (special issue) "Food Chemistry" di "Journal of Separation Science", John Wiley &amp; Sons (2009).</p> <p>Associate Editor del volume speciale (special issue) "Comprehensive Chromatography" di "Journal of Separation Science", John Wiley &amp; Sons (2008).</p> <p>Associate Editor del volume speciale (special issue) "Food Chemistry" di "Journal of Separation Science", John Wiley &amp; Sons (2007).</p>                                                                                                                                                                                                                                                                                                                                                                  |



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|                                                                                                          | <p>Da Agosto 2006. Associate Editor di "Journal of Separation Science", John Wiley-VCH.</p> <p>Associate Editor del volume speciale (special issue) "Food Chemistry" of the "Journal of Separation Science", John Wiley &amp; Sons (2004).</p> <p>Gennaio 2003-Dicembre 2010. Associate Editor di "Flavour Fragrance Journal", John Wiley &amp; Sons, Ltd.</p> <p>Co-Editor del libro "Multidimensional Chromatography", John Wiley &amp; Sons, Ltd, 2002.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>PARTECIPAZIONE A COMITATI<br/>CONSULTIVI DI RIVISTE<br/>SCIENTIFICHE (JOURNAL<br/>ADVISORY BOARD)</p> | <p>Da Aprile 2021 ad oggi. Membro dell'Advisory Board di "Advances in Sample Preparation, Elsevier</p> <p>Da Agosto 2017. Membro dell'Advisory Board di "Separations" (MDPI)</p> <p>Da Settembre 2016. Membro dell'Advisory Board di "Mass Spectrometry Reviews", Wiley.</p> <p>Da Ottobre 2012 Membro dell'Advisory Board di "The Analytical Scientist", Texere.</p> <p>Da Settembre 2008. Membro dell'Advisory Board di "Separation Science", Europe Edition.</p> <p>Da Maggio 2008. Membro dell'Advisory Board di "LCGC Europe", Advanstar.</p> <p>Da Gennaio 2008. Membro dell'Advisory Board di "Scientia Chromatographica", Istituto Internacional de Cromatografia (IIC) ed Editora Atomo.</p> <p>Febbraio-Agosto 2001. Membro dell'Advisory Board di "Journal of Microcolumn Separation", John Wiley &amp; Sons.</p> <p>Gennaio 2001-Luglio 2006. Membro dell'Advisory Board di "Journal of Separation Science", Wiley-VCH.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>DIREZIONE DI ENTI O ISTITUTI<br/>DI RICERCA DI ALTA<br/>QUALIFICAZIONE<br/>INTERNAZIONALE</p>         | <p>Presidente del "Messina Institute of Technology (MeIT) c/o Università di Messina</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>PARTECIPAZIONE A<br/>PROGETTI DI RICERCA</p>                                                          | <p>Programma di Ricerca di Rilevante Interesse nazionale (PRIN 2022 PNRR P2022PTYWP). "Design of high-profit fostering bioactive compounds through integral valorization of seaweeds infesting the Mediterranean sea (DreamWEEDme). Coordinatore dell'Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2017 prot. 2017Y2PAB8). "Cutting Edge Analytical Chemistry Methodologies and Bio-Tools to Boost Precision Medicine in Hormone-Related Diseases". Coordinatore dell'Unità di Ricerca: Prof. Luigi Mondello</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2015 prot. 2015FFY97L). "Securing and Ensuring Sustainable use of Agriculture Waste, Co- and By-Products: An Integrated Analytical Approach Combining Mass Spectrometry with Health Effect-Based Biosensing". Coordinatore dell'Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2012 prot. 2012TLC44W). "Assessment of quality and safety of Mediterranean seafoods by "omics" sciences". Coordinatore dell'Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Progetto di potenziamento strutturale dei laboratori dell'Università di Messina per analisi degli alimenti, studio della loro incidenza sulla salute umana e consulenza tecnologica, giuridica ed economica alle aziende agroalimentari (PAN_LAB).</p> <p>Programma Operativo Nazionale - PON Ricerca e Competitività 2007-2013. PON01_01499. "Recupero e valorizzazione dei prodotti di scarto e di trasformazione dell'industria agro-alimentare per lo sviluppo di alimenti funzionali, prodotti cosmeceutici e nutraceutici innovativi". Hi-IIFE - Health Products from the Industry of Foods.</p> |

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|  | <p>Programma Operativo Nazionale - PON Ricerca e Competitività 2007-2013 - Obiettivo Operativo 4.1.1.4: Potenziamento delle Strutture e delle Dotazioni Scientifiche e Tecnologiche.</p> <p>Programma “Futuro in Ricerca” (FIRB RBFR10GSJK). “Tecniche Analitiche Avanzate per l’Analisi di Contaminanti negli Alimenti”. “Advanced Analytical Techniques for the Analysis of Contaminants in Food Products”. Coordinatore dell’Unità di Ricerca: Prof. Danilo Sciarrone. Componente dell’Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Programma Nazionale per la Ricerca (PNR 2005-2007) BANDO IDEE PROGETTUALI PROGETTO DI RICERCA DI BASE FIRB AREA TEMATICA 9. “Valorizzazione dei Prodotti dell’Agroalimentare e Sicurezza Alimentare attraverso nuovi Sistemi di Caratterizzazione e Garanzia di Qualità. Sviluppo di Metodiche Innovative per l’Analisi di Prodotti Agroalimentari”. Progetto n. RBIP06SXMR. Coordinatore nazionale: Prof. Luigi Mondello</p> <p>Progetto in collaborazione con Shimadzu Corporation (Kyoto, Japan). "Technology and Applications System of the Gas Chromatography Instruments, the Gas Chromatography-Mass Spectrometer and Mass Spectra Library".</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2004). “Metodi Cromatografici Avanzati e Innovativi (GC Multidimensionale, GC Ortogonale, GC Ultraveloce, HPLC-API-MS) per l’Analisi di Grassi Alimentari”. Coordinatore dell’Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Progetto di Ricerca finanziato dalla Regione Campania. “Lo Sviluppo di un Sistema Innovativo di Interfacciamento in contesti Cromatografici Multidimensionali – Applicazione della Tecnica dell’Analisi Diretta, Quali Quantitativa di Pesticidi”.</p> <p>Progetto di Ricerca d’Ateneo (PRA 2003). “Tecniche e metodi cromatografici ortogonali (GC x GC e LC x LC) per lo studio di matrici complesse”. Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2003). “HPLC, HPLC/MS e HPLC Ortogonale (LCXLC) per lo studio di matrici lipidiche di interesse alimentare”. Coordinatore: dell’Unità di Ricerca: Prof. Antonella Cotroneo</p> <p>Progetto di Ricerca d’Ateneo (PRA 2002). “Tecniche Cromatografiche Avanzate per l’Analisi degli Alimenti”. Responsabile Scientifico: Prof. Luigi Mondello.</p> <p>Programma Operativo Nazionale (PON 2002). “Innovazione dei processi e dei prodotti nella filiera alimentare delle piante officinali”. Responsabile Scientifico: Prof. Rosario Lo Curto.</p> <p>Progetto finanziato da Shimadzu Corporation (Kyoto, Giappone). “Identificazione dei componenti delle matrici complesse mediante Fast-GC/MS e uso interattivo degli indici di ritenzione lineari. Applicabilità delle tecniche di gascromatografia ultraveloce all’analisi dei pesticidi nelle matrici naturali complesse”.. Responsabili Scientifici: Prof. Giovanni Dugo e Prof. Luigi Mondello.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 2002). “Metodi Cromatografici Avanzati e Innovativi (GC Multidimensionale, GC Ortogonale, GC Ultraveloce, HPLC-API-MS) per l’Analisi di Grassi Alimentari”. Coordinatore dell’Unità di Ricerca: Prof. Giovanni Dugo</p> <p>Progetto di Ricerca d’Ateneo (PRA 2001). “Tecniche analitiche avanzate per lo studio di sostanze naturali”. Responsabile Scientifico: Prof. Luigi Mondello.</p> <p>Progetto di Ricerca d’Ateneo (PRA 2001). “Sviluppo di metodiche HPLC tradizionali e micro e di metodiche HPLC/ApCI/MS per lo studio di matrici complesse”. Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d’Ateneo (PRA 2000). “Tecniche gascromatografiche innovative per lo studio di matrici complesse”. Responsabile Scientifico: Prof. Luigi Mondello.</p> <p>Progetto di Ricerca d’Ateneo (PRA 2000). “Sviluppo di metodiche micro-HPLC per lo studio di matrici complesse”. Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d’Ateneo (PRA 1999). “Sviluppo di metodiche micro-HPLC per lo studio di matrici naturali”. Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Research Training Network COM-CHROM (IHP-RTN-00-2). “Miniaturized comprehensive liquid</p> |
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|                                                                  | <p>chromatography". Responsabile dell'Unità di Ricerca: Prof. Luigi Mondello.</p> <p>European Community Contract n° ERB BRRT-CT98-5069. Supercritical Fluid Network. Responsabile dell'Unità di Ricerca: Prof. Luigi Mondello.</p> <p>Progetto Operativo Multiregionale (POM 1999). "Deterpenazione degli olii essenziali agrumari con anidride carbonica supercritica e caratterizzazione degli olii essenziali e dei deterpenati mediante HRGC-HRGC/MS e HPLC-HRGC/MS con colonne chirali". Responsabile dell'Unità di Ricerca: Prof. Giovanni Dugo.</p> <p>Progetto di cooperazione con l'Università di Montevideo, coordinato dall'Istituto Italo Latino Americano e finanziato dal Ministero degli Esteri Italiano. "Valorizzazione dei derivati agrumari e delle piante aromatiche uruguaiani". Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Progetto finanziato dalla Regione Sicilia. "Valorizzazione degli estratti di piante aromatiche ed officinali reperibili nella Regione Sicilia, ottenuti mediante l'utilizzo di processi di estrazione con fluidi supercritici, e di sottoprodotti dell'industria agrumaria". Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 1999). "Metodi gascromatografici Ultraveloci e Multidimensionali per la Caratterizzazione delle Sostanze Grasse Alimentari". Coordinatore dell'Unità di Ricerca: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d'Ateneo (PRA 1998).</p> <p>Progetto di Ricerca d'Ateneo (PRA 1997). "Caratterizzazione di derivati agrumari". Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d'Ateneo (PRA 1997). "Caratterizzazione degli oli essenziali agrumari mediante an. OPLC". Responsabile Scientifico: Prof. Ildefonsa Stagno d'Alcontres.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 1996). "Metodologie Analitiche Strumentali Applicative". Coordinatore dell'Unità di Ricerca: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d'Ateneo (PRA 1995). "Caratterizzazione degli Oli Essenziali Agrumari mediante OPLC". Responsabile Scientifico: Prof. Ildefonsa Stagno d'Alcontres.</p> <p>Programma di Ricerca di Rilevante Interesse Nazionale (PRIN 1995). "Metodologie Analitiche Strumentali ed Applicative". Coordinatore dell'Unità di Ricerca: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d'Ateneo (PRA 1995). "Caratterizzazione di Derivati Agrumari". Responsabile Scientifico: Prof. Giovanni Dugo.</p> <p>Progetto di Ricerca d'Ateneo (PRIN 1994). "Metodologie Analitiche Applicate e Strumentali". Coordinatore dell'Unità di Ricerca: prof. Giovanni Dugo.</p> |
| <p>ATTIVITA' DI RECENSORE DI RIVISTE SCIENTIFICHE (REVIEWER)</p> | <p>Attività di referaggio per 60 Riviste Scientifiche</p> <ul style="list-style-type: none"> <li>Acta Physiologiae Plantarum</li> <li>Analyst</li> <li>Analytica Chimica Acta</li> <li>Analytical and Bioanalytical Chemistry</li> <li>Analytical Chemistry</li> <li>Analytical Chemistry Insight</li> <li>Analytical Letters</li> <li>Analytical Methods</li> <li>AOAC International</li> <li>Central European Journal of Chemistry</li> <li>ChemComm</li> <li>Chemosphere</li> <li>Chirality</li> <li>Chromatographia</li> <li>Comprehensive Review in Food Science</li> <li>Critical Review in Analytical Chemistry</li> <li>Current Research in Food Science</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                                                                | <p>Drug Discovery Today<br/>         Electrophoresis<br/>         Energy &amp; Fuels<br/>         Environmental Pollution<br/>         European Journal of Lipid Science and Technology<br/>         Flavour &amp; Fragrance Journal<br/>         Food Analytical Methods<br/>         Food Biophysic<br/>         Food Chemistry<br/>         Foodcont<br/>         Food Science and Technology<br/>         International Journal of Environmental Analytical Chemistry<br/>         Journal of Agricultural and Food Chemistry<br/>         Journal of the American Oil Chemists Society<br/>         Journal of the Brazilian Chemical Society<br/>         Journal of Cereal Science<br/>         Journal of Chromatographic Science<br/>         Journal of Chromatography A<br/>         Journal of Chromatography B<br/>         Journal of Essential Oil Research<br/>         Journal of Food Biochemistry<br/>         Journal of Food Composition<br/>         Journal of Green Pharmacy<br/>         Journal of Liquid Chromatography and Related Technologies<br/>         Journal of Mass Spectrometry<br/>         Journal of Mass Spectrometry and Advances in the Clinical Lab<br/>         Journal of Microcolumn Separations<br/>         Journal of Industrial and Engineering Chemistry<br/>         Journal of Pharmaceutical and Biomedical Analysis<br/>         Journal of Proteome Research<br/>         Journal of Separation Science<br/>         LC GC Europe<br/>         Mass Spectrometry Reviews<br/>         Metabolomics<br/>         Phytochemical Analysis<br/>         Phytochemistry<br/>         Rapid Communications in Mass Spectrometry<br/>         RSC Advances<br/>         Science of the Total Environment<br/>         Talanta<br/>         Tetrahedron Letters<br/>         Trends in Analytical Chemistry<br/>         Vibrational Spectroscopy</p> |
| <p><b>CITAZIONI E PARAMETRI<br/>         BIBLIOMETRICI</b></p> | <p>Al 16 Agosto, 2024, ha 614 documenti nel Web of Science (Clarivate) (684 Scopus), 16.121 citazioni 18.808 Scopus, 26.382 Google Scholar), un h-index di 61 (66 Scopus e 88 Google Scholar).</p> <p>Al 16 Agosto 2024, le sue pubblicazioni hanno un fattore di impatto totale di 2424 (IF 2023).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p><b>ADDENDUM</b></p>                                         | <p>Elenco delle Presentazioni a Congressi e Seminari.</p> <p>Elenco delle Pubblicazioni.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Il presente documento consta di 12 pagine

Messina, 16/08/2024

Prof. Mondello Luigi

## N° LIST OF PUBLISHED PAPERS

- |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1 | Eduardo Dellacassa, Carmen Rossini, Patrick Moyna, Ildefonsa Stagno d'Alcontres, Luigi Mondello e Giovanni Dugo.<br>Gli olii essenziali dell'Uruguay. Nota II. Primi risultati sulla composizione della frazione volatile dell'olio essenziale di limone.<br>Essenz. Deriv. Agrum. 61(4), 291-304 (1991).<br>Research article                                                                                                                  | 0     |
| 2 | Dugo G., Di Bella G., Cimino G. Mondello L..<br>Residui di Procimidone in uve prodotte in Sicilia. Valutazione della persistenza nel vino.<br>Riv. Ital. Sci. Alim. 21(4), 455-459(1992).<br>Research article                                                                                                                                                                                                                                  | 0     |
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- 733 Tania Maria Grazia Salerno, Carmelo Coppolino, Paola Arena, Ahmed Aichouni, Andrea Cerrato, Anna Laura Capriotti, Francesca Rigano, Danilo Donnarumma, Paola Donato, Alice Mondello, Luigi Mondello 2.900  
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- 734 Mustapha Cherrate, Aziz Bouymajane, Yassine Oulad El Majdou, Fouzia Rhazi Filali, Ghizlane Echchgadda, Abdellah Maissour, Roberto Laganà Vinci, Francesco Cacciola, Luigi Mondello, Rachid Lahlali, Kacem Makroum 1.410  
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Research article
- 735 Mouna Moullamri, Kacem Rharrabe, Houssam Annaz, Amin Laglaoui, Filippo Alibrando, Francesco Cacciola, Luigi Mondello, Nourddin Bouayad, Saïd Zantar, Mohammed Bakkali 2.400  
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- 736 Marina Russo, Maria Rita Testa Camillo, Roberta La Tella, Francesca Rigano, Paola Donato, Luigi Mondello, Paola Dugo 4.100  
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Research article

- 737 Giuseppe Micalizzi, Chiara Buzzanca, Valentina Chiaia, Monica Mondello, Francesco Cacciola, Daniela Caccamo, Luigi Mondello 3.000  
Measurement of short-chain fatty acids in human plasma by means of fast gas chromatography-mass spectrometry  
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- 738 Mohamed Reda Kachmar, Yassine Oulad El Majdoub, Andreia P. Oliveira, Aziz Boumajane, Hanae Naceiri Mrabti, Toufik Bouddine, Nora Mirf, Safa Kachmar, Hajji Lhoussain, Zoubida Haloui, Alessia Tropea, Francesco Cacciola, Luigi Mondello, Paula B. Andrade, Said Chakir 2.460  
*Juniperus oxycedrus* leaves and berries extracts: HPLC-PDA-ESI/MS<sup>2</sup> phenolic characterization and in vitro anti-inflammatory effects  
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- 739 Peter Q. Tranchida, Mariosimone Zoccali, and Luigi Mondello 13.100  
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Review article
- 740 Natasa P. Kalogiouri, Natalia Manousi, Antonio Ferracane, George A. Zachariadis, Stefanos Koundouras, Victoria F. Samanidou, Peter Q. Tranchida, Luigi Mondello, Erwin Rosenberg 6.200  
A novel high-throughput headspace solid-phase microextraction arrow method employing comprehensive two-dimensional gas chromatography-mass spectrometry combined with advanced chemometrics for the investigation of wine aging  
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- 741 Alessia Tropea, Donatella Spadaro, Daniele Giuffrida, Juan Pablo Ruiz-Sanchez, Julio Montañez, Lourdes Morales-Oyervides, Laurent Dufossé, Luigi Mondello, Giuseppe Calogero 3.100  
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- 742 Maria Fernanda Taviano; Paola Arena; Federica Davì; Emilia Cavò; Vivienne Spadaro; Francesco Maria Raimondo; Francesco Cacciola; Roberto Laganà Vinci; Luigi Mondello; Natalizia Miceli 2.900  
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- 743 Cinzia Cafarella, Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello 3.100  
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- 744 Hamass Zerrad, Hanane Bakrim, Mouna Moullamri, Mohammed Bakkali, Filippo Alibrando, Francesco Cacciola, Monica Mondello, Paola Dugo, Luigi Mondello, Abdelhay Arakrak, Amin Laglaoui 3.000  
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- 745 Cassamo Ussemame Mussagy, Fabiane O. Farias, Alessia Tropea, Luca Santi, Luigi Mondello, Daniele Giuffrida; Antonio J. Meléndez-Martínez, Laurent Dufossé 8.800  
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- 746 Soumia Moujane, Ismail Bouadid, Aziz Bouymajane, Filali Zegzouti Younes, Mohamed Benlyas, Bouachrine Mohammed, Francesco Cacciola, Roberto Laganà Vinci, Alessia Tropea, Luigi Mondello, Ammar B. Altemimi, Mohamed Eddouks and Benaissa Moulaj 3.400  
Assessment of hematological, and biochemical effects of acute and subacute toxicity of the aqueous extract from *Retama sphaerocarpa* leaves in Wistar rats, and in-silico investigation of phenolic compounds as potential inhibitors against HPV16 E6 oncoprotein  
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- 747 Mauro Paolini, Alberto Roncone, Lorenzo Cucinotta, Danilo Sciarrone, Luigi Mondello, Federica Camin, Sergio Moser, Roberto Larcher, Luana Bontempo Aromatic Characterisation of Moscato Giallo by GC-MS/MS and Validation of Stable Isotopic Ratio Analysis of the Major Volatile Compounds 5.500  
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- 748 Angie Vanessa Caicedo Paz, Francesca Rigano, Cinzia Cafarella, Alessia Tropea, Luigi Mondello, Julián Paul Martinez Galan, Mushtaq Ahmad, Ahmad Mustafa, Fabiane Farias, Andrés Córdova, Daniele Giuffrida, Laurent Dufossé, Cassamo Ussemame Mussagy 8.600  
Process intensification of ultrasound assisted deep eutectic solvent-based extraction of astaxanthin-rich extract derived from the non-conventional bacterium *Paracoccus carotinifaciens*  
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- 749 Alessia Arena, Antonio Ferracane, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello 6.200  
A dilute-and-inject liquid-gas chromatography-mass spectrometry method for the analysis of sixteen polycyclic aromatic hydrocarbons in extra-virgin olive oil  
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Reserch article
- 750 Giuseppe Micalizzi, Lorenzo Cucinotta, Valentina Chiaia, Filippo Alibrando, Francesca Cannizzaro, Gabriele Branca, Pietro Maida, Luigi Mondello, Danilo Sciarrone 4.100  
Profiling of seized *Cannabis sativa* L. flowering tops by means of microwave-assisted hydro distillation and gas chromatography analyses  
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- 751 Jader Martínez-Girón, Cinzia Cafarella, Francesca Rigano, Daniele Giuffrida, Luigi Mondello, Yolima Baena, Coralia Osorio, Luis Eduardo Ordóñez-Santos Peach palm fruit (*Bactris gasipaes*) peel: A Source of Provitamin A Carotenoids to Develop Emulsion-Based Delivery Systems 3.700  
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- 752 Roberto Laganà Vinci, Katia Arena, Francesca Rigano, Francesco Cacciola, Paola Dugo, Luigi Mondello 4.100  
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Research article
- 753 Lorenzo Cucinotta, Francesca Cannizzaro, Mauro Paolini, Alberto Roncone, Federica Camin, Luana Bontempo, Roberto Larcher, Danilo Sciarrone, Luigi Mondello 4.100  
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- 754 Giovanna Cafeo, Marina Russo, Luigi Mondello, Paola Dugo 4.300  
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- 756 Valentina Chiaia, Giuseppe Micalizzi, Danilo Donnarumma, Anna Irto, Clemente Bretti, Marta Venuti, Gabriele Lando, Luigi Mondello, Paola Cardiano 4.100  
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- 757 Giovanna Cafeo, Tania Maria Grazia Salerno, Luigi Mondello, Paola Dugo, Marina Russo 0  
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- 758 Lorenzo Cucinotta, Archimede Rotondo, Carmelo Coppolino, Elisa Irrera, Laura A. Duarte, Roger R. Cipriano, Wanderlei do Amaral, Wilson Loureiro, Cicero Deschamps, Humberto Ribeiro Bizzo, Paola Donato, Danilo Sciarrone, Luigi Mondello, Tania Maria Grazia Salerno 4.100  
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- 759 Donatella Spadaro, Alessia Tropea, Iliaria Citro, Stefano Trocino, Daniele Giuffrida, Francesca Rigano, Lourdes Morales-Oyervides, Thorsten Brinkhoff, Till Tiso, Laurent Dufossé, Giuseppe Calogero, Luigi Mondello 4.100  
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IN PRESS

- 351 Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography-mass spectrometry in food analysis  
MS in Food Analysis, World Scientific Publishers Book

chapter  
In press

- 390 Lorenzo Cucinotta, Gemma De Grazia, Luigi Mondello, Danilo Sciarrone  
Boosting the odour threshold of key components exploiting three-dimensional GC-O with MS/FID simultaneous detection  
In press J. Essent. Oil Res.
- 411 Chatragadda Ramesh, Maile Anwesh, Tropea Alessia, Daniele Giuffrida, Roberta La Tella, Valentina Chiaia, Luigi Mondello, Kanakam Anil, Alexandre Le Loarer, Anne Gauvin-Bialecki, Mireille Fouillaud, and Laurent Dufossé  
Genome and compound analysis of sioxanthin producing marine actinobacterium *Micromonospora* sp. nov. strain SH-82 isolated from sponge *Scopalina hapalia*  
In press Curr. Microbiol.
- 384 Zakia Zouaoui, Abdelmounaim Laabar, Sara El Asri, Abdelhamid Ennoury, Imad Kabach, Luigi Mondello, Francesco Cacciola, Khalid Taghzouti, Naima Nhiri, Mohamed Nhiri  
Phytochemical Profile, Antioxidant Screening, and Antidiabetic Effect of Pink Pepper (*Schinus terebinthifolius* Raddi) Leaves in diabetic mice  
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- 397 Katia Arena, Laura Martín-Pozo, Roberto Laganà Vinci, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Determination of pesticide residues in five different corn-based products using a single and simple solid-liquid extraction without clean-up steps followed by comprehensive two-dimensional liquid chromatography coupled to tandem mass spectrometry  
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- 399 Ahlem Eddehech, Alessia Tropea, Francesca Rigano, Danilo Donnarumma, Emna Ben Abdallah, Francesco Cacciola, Luigi Mondello, Zied Zarai  
Biodiesel Production from Crude Soybean Oil by Using a Combination of Microbial Lipase and Phospholipase  
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- 403 Natalizia Miceli; Sofiane Habibatni; Federica Davì; Zeroual Samir; Bouazza Lyas; Francesco Cacciola; Roberto Laganà Vinci; Luigi Mondello; Maria Fernanda Taviano; Jessica Maiuolo  
Characterization of the phenolic profile, antioxidant and neuroprotective activity of leaf hydroalcoholic extracts of *Euphorbia bupleuroides* subsp. *luteola* (Kralik) Maire growing wild in Algeria  
In press Int. J. Environ. Health Res.
- 416 Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Cryogenic-zone-compression gas chromatography-mass spectrometry for the targeted determination of 16 polycyclic aromatic hydrocarbons in extra virgin olive oil  
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- 418 Emanuela Trovato, Lucyna Balcerzak, Clio Vidal, Daniel Jan Strub, Hussein A Fakhry, Paola Dugo, Luigi Mondello  
Gas chromatographic, sensory profile and biological properties evaluation of Egyptian *Jasminum grandiflorum* essential oil produced industrially by steam distillation  
In press J. Essent. Oil Res.
- 420 Giuseppe Micalizzi, Valentina Chiaia, Monique Mancuso, Teresa Bottari, Bilal Mghili, Giovanna D'Angelo, Francesca Falco, Luigi Mondello  
Investigating the effects of microplastics on the metabolism of *Trematomus bernacchii* from the ross sea (Antarctica)  
In press Sci. Tot. Environ.

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- Laura Martín-Pozo, Katia Arena, Francesco Cacciola, Luigi Mondello, Paola Dugo  
From extracts to quantitative analyses  
Phytochemicals, Elsevier  
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- 410 Peter Q. Tranchida, Micaela Galletta, Luigi Mondello  
Principles of high-resolution GC(×GC)  
Chapter on Gas Chromatography-Mass Spectrometry for Omics Applications  
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- 412 Giovanna Cafeo, Marina Russo, Luigi Mondello, Alice Mondello  
Routine oxygen heterocyclic compounds analysis of fragrances using an eco-friendly liquid chromatography coupled to tandem mass spectrometry method  
Sent to J. Essent. Oil Res.
- 413 Lorenzo Cucinotta, Giovanna Cafeo, Filippo Alibrando, Marina Russo, Danilo Sciarrone, Luigi Mondello, Monica Mondello  
Characterization of oxygen heterocyclic compounds and volatile fraction of *Citrus australasica* finger lime peel essential oil exploiting a multi-technique chromatographic approach  
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- 417 Micaela Galletta, Micaela; Audrey Combès, Luigi Mondello, Peter Tranchida, Valérie Pichon  
Synthesis and characterization of oligosorbents for the selective extraction of zearalenone and its derivatives from human urine  
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- 419 Jessica Abbate, Doemnica Mangraviti, Barbara Brunetti, Cinzia Cafarella, Francesca Rigano, Carmelo Iaria, Fabio Marino, Luigi Mondello  
Machine Learning Approach in Canine Mammary Tumour Classification using Rapid Evaporative Ionization Mass Spectrometry  
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Università  
degli Studi di  
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DIPARTIMENTO DI SCIENZE CHIMICHE,  
BIOLOGICHE, FARMACEUTICHE  
ED AMBIENTALI

**Prof. Luigi Mondello**

*Lista delle Presentazioni a Congressi*

N°

- 1** Convegno Regionale della Società Chimica Italiana, Milazzo, Italia, 11-13 Dicembre 1991.  
G. Dugo, G. Di Bella, G. Cimino e L. Mondello.  
“Residui di Procimidone nelle Uve, nel Mosto e nel Vino”.  
Oral Communication
- 2** Fifteenth International Symposium on Capillary Chromatography - Riva del Garda, 24-27 Maggio 1993.  
G. Dugo, L. Mondello, A. Verzera, A. Cotroneo and A. Trozzi.  
“Investigation on Enantiomeric Distribution of Monoterpenic Alcohols in Citrus Essential Oils by Automated On-line HPLC-HRGC”.  
Poster Communication
- 3** Massa 93, Chimica e Biotecnologie Agro-alimentari, Lacco Ameno, Ischia, Italia, 13-18 Settembre 1993.  
P. Dugo, L. Mondello, E. Cogliandro, I. Stagno d’Alcontres e A. Cotroneo.  
“La Frazione Polimetossiflavonica degli Oli Essenziali di Arancia Dolce e di Mandarino”.  
Oral Communication
- 4** Massa 93, Chimica e Biotecnologie Agro-alimentari, Lacco Ameno, Ischia, Italia, 13-18 Settembre 1993.  
A. Verzera, A. Trozzi, L. Mondello, A. Cotroneo, I. Stagno d’Alcontres e G. Dugo.  
“La Distribuzione Enantiomerica di Alcoli Monoterpenici come Riferimento di Genuinità e di Qualità degli Oli Essenziali Agrumari”.  
Oral Communication
- 5** Metodiche HPLC per il Controllo di Qualità degli Alimenti e delle Bevande Alcoliche, Giardini Naxos, Italia, 7-8 Ottobre 1993.  
Giovanni Dugo, Luigi Mondello, Paola Dugo, Ildefonsa Stagno d’Alcontres e Antonella Cotroneo.  
“La Frazione dei Composti a Nucleo Eterociclico Contenente Ossigeno degli Olii Essenziali Agrumari”.  
Oral Communication

- 6** Metodiche HPLC per il Controllo di Qualità degli Alimenti e delle Bevande Alcoliche, Giardini Naxos, Italia, 7-8 Ottobre 1993.  
Giovanni Dugo, Luigi Mondello, Antonella Verzera, Alessandra Trozzi, Antonella Cotroneo e Ildefonsa Stagno d'Alcontres.  
“Determinazione della Distribuzione Enantiomerica di Alcoli Monoterpenici negli Olii Essenziali Agrumari mediante Accoppiamento Automatico ‘On-line’ HPLC-HRGC”.  
Oral Communication
- 7** Metodiche HPLC per il Controllo di Qualità degli Alimenti e delle Bevande Alcoliche, Giardini Naxos, Italia, 7-8 Ottobre 1993.  
Luigi Mondello, Paola Dugo e Ildefonsa Stagno d'Alcontres.  
“Isolamento di Polimetossiflavoni dagli Olii Essenziali di Arancia Dolce e di Mandarino mediante Cromatografia su Colonna e HPLC Semipreparativa con Riciclo”.  
Oral Communication
- 8** Il Congresso Italo-Peruviano di Etnomedicina Andina, Lima, Perù, 27-30 Ottobre 1993.  
Giovanni Dugo, Luigi Mondello, Antonella Verzera, Alessandra Trozzi, Antonella Cotroneo e Ildefonsa Stagno d'Alcontres.  
“Il Dosaggio degli Enantiomeri di Componenti degli Olii Essenziali Agrumari Mediante Accoppiamento ‘On-line’ HPLC-HRGC con Colonne Capillari Chinali”.  
Poster Communication
- 9** I Congreso de la Federacion Farmaceutica Sudamericana - Montevideo, 4-7 Novembre 1993.  
A. Verzera, A. Trozzi, L. Mondello, A. Cotroneo, I. Stagno d'Alcontres, G. Dugo, D. Lorenzo, E. Dellacassa.  
“Influencia de la tecnología de extracción y del origen y variedad de fruta sobre la relación enantiomérica de alcoholes monoterpénicos en aceites esenciales cítricos”.  
Oral Communication
- 10** Seminari di Chimica degli Alimenti, Messina, Italia, 16-17 Maggio 1994.  
L. Mondello.  
“ ‘On-line’ HPLC-HRGC-MS: Applicazioni all'Analisi degli Olii Essenziali Agrumari”.  
Invited Oral Communication
- 11** Trasformazioni Molecolari nelle Tecnologie Alimentari. Metodi di Valutazione, Milano, Italia, 19-20 Maggio 1994.  
Giovanni Dugo, Luigi Mondello, Antonella Cotroneo e Antonella Verzera.  
“Variazione del Contenuto e della Distribuzione Enantiomerica degli Alcoli Monoterpenici negli Olii Essenziali Agrumari in Funzione della Tecnologia di Estrazione”.  
Poster Communication
- 12** III Congresso Italo-Latinoamericano di Etnomedicina, Roma-Eur, Italia, 19-22 Settembre 1994.  
Luigi Mondello, Paola Dugo, Keith D. Bartle, Giovanni Dugo e Antonella Cotroneo.  
“Identificazione e Dosaggio degli Idrocarburi Sesquiterpenici negli Olii Essenziali Agrumari mediante Accoppiamento Automatico ‘On-line’ HPLC-HRGC-MS(ITD)”.  
Poster Communication
- 13** Sixteenth International Symposium On Capillary Chromatography, Riva del Garda, Italy, September 27-30, 1994.

Giovanni Dugo, Alessandra Trozzi, Antonella Cotroneo, Paola Dugo, Eduardo Dellacassa, Luigi Mondello and Keith D. Bartle.

“Automated HPLC-HRGC: A Powerful Method for Essential Oil Analysis. Determination of Enantiomeric Distribution of Monoterpene Alcohols (Linalol, Terpinen-4-ol and  $\alpha$ -Terpineol) in Citrus Essential Oils from Different Origin”.

Poster Communication

- 14** Sixteenth International Symposium On Capillary Chromatography, Riva del Garda, Italy, September 27-30, 1994.

Luigi Mondello, Paola Dugo, Keith D. Bartle, Giovanni Dugo and Bernard Frere.

“On-line High Performance Liquid Chromatography Coupled with High Resolution Gas Chromatography and Mass Spectrometry (HPLC-HRGC-MS) for the Analysis of Complex Mixtures Containing High Volatile compounds”.

Poster Communication

- 15** II Congreso de Ciencias Farmaceuticas del Cono Sur, Santiago del Cile, Ottobre 1994.

A. Verzera, A. Trozzi, L. Mondello, A. Cotroneo, I. Stagno d'Alcontres, G. Dugo, D. Lorenzo e E. Dellacassa.

“Influencia de la Tecnología de Extracción y del Origen y Variedad de Fruta Sobre la Relación Enantiomérica de Alcoholes Monoterpénicos en Aceites Esenciales Cítricos”.

Poster Communication

- 16** II Simposio Internacional Quimica de Productos Naturales y sus Aplicaciones, Concepcion, Chile, 30 de Noviembre al 2 de Diciembre 1994.

Antonella Verzera, Alessandra Trozzi, Luigi Mondello, Paola Dugo y Giovanni Dugo.

“Estudio de la Relacion Enantiomerica de Alcoholes Monoterpenicos en Aceites Esenciales Citricos”.

Poster Communication

- 17** Seventeenth International Symposium on Capillary Chromatography and Electrophoresis, Wintergreen, Virginia, USA, May 7-11, 1995.

Luigi Mondello, Giovanni Dugo and Keith D. Bartle.

“On-line LC/GC/MS for the Analysis of Complex Mixtures”.

Invited Oral Communication

- 18** Seventeenth International Symposium on Capillary Chromatography and Electrophoresis, Wintergreen, Virginia, USA, May 7-11, 1995.

Luigi Mondello, P. Dugo, A. Basile, Giovanni Dugo and Keith D. Bartle.

“Interactive Use of Kovats Indices, on Polar and Apolar Columns, with an MS-Library for Reliable Identification of Complex Mixtures”.

Poster Communication

- 19** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.

L. Mondello, G. Dugo and K.D. Bartle.

“On line HPLC-HRGC and HPLC-HRGC-MS in the Analytical Chemistry of Citrus Essential Oils”.

Invited Oral Communication

- 20** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.

L. Mondello.  
“Applicazioni di On-line LC-GC all'analisi di olii essenziali”.  
Invited Oral Communication

- 21** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
P. Dugo, L. Mondello, E. Cogliandro, A. Verzera e G. Dugo.  
“I composti a nucleo eterociclico contenente ossigeno degli olii essenziali agrumari”.  
Oral Communication
- 22** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
L. Mondello, P. Dugo, E. Cogliandro e Giacomo Dugo.  
“Caratterizzazione dell'olio essenziale di pummelo (Cv. Chandler) mediante GC-MS, HPLC e indici chimico-fisici”.  
Poster Communication
- 23** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
M. Nicotina, P. Dugo, L. Mondello, P. Previti, Giacomo Dugo e E. Caprio.  
“La frazione aromatica di uve falanghina e trebbiano trattate con acaricidi specifici”.  
Poster Communication
- 24** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
L. Mondello, P. Dugo, A. Cotroneo, A. Basile e G. Dugo.  
“Analisi GC-MS e indici di Kovats su colonne apolari e polari per una sicura identificazione dei composti della frazione volatile degli olii essenziali agrumari”.  
Poster Communication
- 25** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
L. Mondello, K.D. Bartle, P. Dugo, A. Cotroneo e G. Dugo.  
“Analisi dei petitgrain di arancio dolce e di arancio amaro mediante GC-MS”.  
Poster Communication
- 26** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
P. Dugo, L. Mondello, E. Cogliandro, A. Verzera, A. Cavazza e G. Dugo.  
“I composti a nucleo eterociclico contenente ossigeno dell'olio essenziale di arancia amara”.  
Poster Communication
- 27** 2° Congresso Nazionale di Chimica degli Alimenti, Giardini Naxos, Italia, 24-27 Maggio 1995.  
L. Mondello, K.D. Bartle, I. Stagno d'Alcontres, A. Cotroneo e G. Dugo.  
“Analisi dei petitgrain di limone e di mandarino mediante GC-MS”.  
Poster Communication
- 28** IV Congreso Italo-Latinoamericano de Etnomedicina “Felice Fontana”, Ecuador, 6-9 Noviembre 1995.  
Paola Dugo, L. Mondello, Giovanni Dugo, E. Dellacassa, D. Lorenzo e P. Moyna.



"I Composti a nucleo eterociclico contenente ossigeno degli olii essenziali agrumari".  
Poster Communication

- 29** Technical Meeting, The Coca Cola Company, Atlanta, Georgia, USA, 26 Gennaio 1996.  
L. Mondello.  
"On-line LC-GC-MS for Identification of Citrus Volatiles".  
Invited Oral Communication
- 30** International Citrus Symposium, Orlando, Florida, USA, January 29-February 1, 1996.  
L. Mondello, G. Dugo, P. Dugo and K.D. Bartle.  
"On-line HPLC-HRGC in the Analytical Chemistry of Citrus Essential Oils".  
Invited Oral Communication
- 31** International Citrus Symposium, Orlando, Florida, USA, January 29-February 1, 1996.  
L. Mondello, K.D. Bartle, P. Dugo, A. Cotroneo and G. Dugo.  
"The Composition of Petitgrain Oils".  
Invited Oral Communication
- 32** International Citrus Symposium, Orlando, Florida, USA, January 29-February 1, 1996.  
P. Dugo, L. Mondello, I. Stagno d'Alcontres, A. Basile and G. Dugo.  
"Oxygen Heterocyclic Compounds of Citrus Essential Oils".  
Oral Communication
- 33** International Citrus Symposium, Orlando, Florida, USA, January 29-February 1, 1996.  
A. Verzera, G. Lamonica, L. Mondello, A. Trozzi and G. Dugo.  
"The Composition of Bergamot Oil".  
Oral Communication
- 34** International Citrus Symposium, Orlando, Florida, USA, January 29-February 1, 1996.  
D. Heaton, K.D. Bartle, A.A. Clifford, P. Dugo, L. Mondello and G. Dugo.  
"Rapid Analysis of Polymethoxylated Flavones from Citrus Oils by Supercritical Fluid Chromatography".  
Poster Communication
- 35** Fourth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Bruges, Belgium, February 7-9, 1996.  
L. Mondello, G. Dugo and K.D. Bartle.  
"On-line Coupled HPLC-HRGC-MS in Food Analyses".  
Invited Oral Communication
- 36** 18th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 20-24, 1996.  
L. Mondello, M. Catalfamo, P. Dugo and G. Dugo.  
"Multidimensional Capillary GC-GC System for the Analysis of Real Complex Samples".  
Poster Communication
- 37** 18th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 20-24, 1996.  
L. Mondello, M. Catalfamo, P. Dugo and G. Dugo.  
"Enantiomeric Distribution of Monoterpene Hydrocarbons and Monoterpene Alcohols of Citrus Oils by Multidimensional GC-GC Analysis".

Poster Communication

- 38** 18th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 20-24, 1996.  
D. Heaton, K.D. Bartle, A.A. Clifford, P. Dugo, L. Mondello and G. Dugo.  
“Rapid Analysis of Polymethoxylated Flavones (PMFs) from Citrus Oils by SFC”.  
Poster Communication
- 39** XIX Congresso Nazionale, Ricerca e Tecnologia, Riccione, Italia, 9-14 Giugno 1996.  
Giovanni Dugo, Luigi Mondello, Maurizio Catalfamo e Paola Dugo.  
“Determinazione della distribuzione enantiomerica di componenti volatili di miscele complesse mediante gascromatografia multidimensionale”.  
Poster Communication
- 40** V Congresso Italo-Latinoamericano di Etnomedicina “Agostino Codazzi”, Roma, Italia, 18-20 Settembre 1996, Padula, Certosa, Italia, 21-22 Settembre 1996.  
Dugo G., Mondello L., Catalfamo M. e Dugo P.  
“Analisi di miscele complesse di sostanze volatili mediante gascromatografia multidimensionale”.  
Poster Communication
- 41** V Congresso Italo-Latinoamericano di Etnomedicina “Agostino Codazzi”, Roma, Italia, 18-20 Settembre 1996, Padula, Certosa, Italia, 21-22 Settembre 1996.  
Della cassa E., Lorenzo D., Moyna P., Mondello L., Cotroneo A., Stagno d’Alcontres I. e Dugo P.  
“La composizione dell’olio essenziale di tre piante aromatiche uruguayane: *Blepharocalyx tweediei* (ARRAYAN), *Eugenia uruguayensis* (GUAYABO BLANCO) e *Hyptis floribunda*”.  
Poster Communication
- 42** Tecniche Analitiche Avanzate per l’Analisi degli Olii Essenziali, Messina, Italia, 6 Maggio 1997.  
Luigi Mondello.  
“Sviluppo di un nuovo sistema GC multidimensionale”.  
Invited Oral Communication
- 43** Nineteenth International Symposium on Capillary Chromatography and Electrophoresis, Wintergreen, Virginia, USA, May 18-22, 1997.  
Luigi Mondello, Maurizio Catalfamo, Paola Dugo and Giovanni Dugo.  
“Multidimensional Capillary GC-GC System for the Analysis of Real Complex Samples”.  
Invited Poster Communication
- 44** Nineteenth International Symposium on Capillary Chromatography and Electrophoresis, Wintergreen, Virginia, USA, 18-22 May 1997.  
Paola Dugo, Luigi Mondello and Giovanni Dugo.  
“Solid phase microextraction of flavor components in wines”.  
Poster Communication
- 45** Università di Messina, Dipartimento Farmaco-Chimico, Tecniche Cromatografiche per l’analisi di Alimenti e Prodotti Farmaceutici, Messina, Italia, 19-20 Giugno 1997.  
Luigi Mondello.  
“Gas Cromatografia con colonne capillari”.

Invited Oral Communication

- 46** Chimica e Alimentazione: Obiettivo Salute, Roma, Italia, 30 Giugno-1 Luglio 1997.  
Dugo G., Mondello L., Catalfamo M. e Dugo P.  
“La determinazione della distribuzione enantiomerica dei componenti degli oli essenziali agrumari mediante gascromatografia multidimensionale”.  
Poster Communication
- 47** 16èmes Journées Internationales Huiles Essentielles, Digne les Bains, France, 3, 4, 5 & 6 Septembre 1997.  
Luigi Mondello, Paola Dugo, Antonella Cotroneo and Giovanni Dugo.  
“Techniques Multidimensionnelles Avancees pour l'Analyse des Huiles Essentielles de Bergamote”.  
Invited Oral Communication
- 48** 16èmes Journées Internationales Huiles Essentielles, Digne les Bains, France, 3, 4, 5 & 6 Septembre 1997.  
Antonella Verzera, Alessandra Trozzi, Ildefonsa Stagno d'Alcontres and Luigi Mondello.  
“The Composition of the Volatile Compounds of Calabrian Bergamot Essential Oils”.  
Invited Oral Communication
- 49** WOCMAP II, II Congreso Mundial de Plantas Aromáticas y Medicinales para el Bienestar de la Humanidad, Mendoza, República Argentina, 10 al 15 de Noviembre de 1997.  
Daniel Lorenzo, Antonella Verzera, Alessandra Trozzi, Luigi Mondello, Eduardo Dellacassa y P. Moyna.  
“Estudio de composición de aceites esenciales cítricos del Uruguay: *Citrus clementine* Hort. 1”.  
Poster Communication
- 50** PITTCON '98, New Orleans, Louisiana, USA, March 1-5, 1998.  
I.L. Bonaccorsi, H.M. McNair, L.A. Brunner, G. Dugo and L. Mondello.  
“HPLC Methodology for the Determination of Organophosphorus and Organochlorine Pesticides in Citrus Juice”.  
Poster Communication
- 51** Seventh Latin American Congress On Chromatography, Águas de São Pedro, Brasil, March 25-27, 1998.  
Luigi Mondello, Piero Previti, Antonella Cotroneo, G. Dugo, and H. McNair.  
“Multidimensional Gas Chromatography: Analysis of Lemon Oils”.  
Poster Communication
- 52** Seventh Latin American Congress On Chromatography, Águas de São Pedro, Brasil, March 25-27, 1998.  
L. Mondello, A. Verzera, G. Dugo, E. Dellacassa, D. Lorenzo and A. Lloret.  
“Multidimensional Gas Chromatography for Enantiomeric Analysis of Uruguayan Citrus Oils”.  
Poster Communication
- 53** Seventh Latin American Congress On Chromatography, Águas de São Pedro, Brasil, March 25-27, 1998.

H.M. McNair, L.A. Brunner, L. Mondello, I. Bonaccorsi and P. Dugo.  
“HPLC Methodology for Determination of Organophosphorous and Organochlorine  
Pesticides in Citrus Juice”.  
Poster Communication

- 54** 20th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 26-29, 1998.  
L. Mondello, M. Catalfamo, G. Dugo, P. Dugo and I. Bonaccorsi.  
“Analysis of High Boiling Compounds by an Innovative Multidimensional GC-GC System”.  
Poster Communication
- 55** Università di Messina, Dipartimento Farmaco-Chimico, Le nuove frontiere della cromatografia, Messina, Italia 8-9 Settembre 1998.  
L. Mondello.  
“Gascromatografia multidimensionale”.  
Invited Oral Communication
- 56** 22nd International Symposium on Chromatography, Roma, Italia, September 13-18, 1998.  
L. Mondello, M. Catalfamo and G. Dugo.  
“A New Multidimensional Capillary Gas Chromatography System: Instrumentation Development and Applications”.  
Invited Oral Communication
- 57** 22nd International Symposium on Chromatography, Roma, Italia, September 13-18, 1998.  
P. Dugo, L. Mondello, I. Bonaccorsi, H. McNair, E. Sebastiani and G. Dugo.  
“Characterization of the Oxygen Heterocyclic Compounds of Citrus Essential Oils by HPLC/MS with APcI+ Interface”.  
Poster Communication
- 58** 22nd International Symposium on Chromatography, Roma, Italia, September 13-18, 1998.  
L. Mondello, A. Verzera, A. Cotroneo and G. Dugo.  
“Enantiomeric Distribution of Citrus Essential Oils Components by Multidimensional Capillary Gas Chromatography”.  
Poster Communication
- 59** 3° Congresso Nazionale di Chimica degli Alimenti, Letojanni (Messina), Italia, 8-9 Ottobre 1998.  
Dugo P., Mondello L., Dugo G., Bonaccorsi I., McNair H.M. and Sebastiani E.  
“HPLC/MS con interfaccia APcI+ per l'analisi di miscele naturali di composti eterociclici a nucleo contenente ossigeno”.  
Oral Communication
- 60** 3° Congresso Nazionale di Chimica degli Alimenti, Letojanni (Messina), Italia, 8-9 Ottobre 1998.  
I.L. Bonaccorsi, H.M. McNair, L. Mondello e Giacomo Dugo.  
“Confronto delle Tecniche di Analisi HPLC e GC per la Determinazione di Residui di Pesticidi in Succhi di Agrumi”.  
Poster Communication
- 61** 3° Congresso Nazionale di Chimica degli Alimenti, Letojanni (Messina), Italia, 8-9 Ottobre 1998.

L. Mondello, A. Verzera, A. Cotroneo e G. Dugo.  
“Determinazione della Distribuzione Enantiomerica dei Composti degli Olii Essenziali Agrumari mediante Gascromatografia Multidimensionale”.  
Poster Communication

**62** International Congress, Bergamott98, Reggio Calabria, Italy, November 30- December 2, 1998.

Luigi Mondello, Piero Previti and Giovanni Dugo.  
“Multidimensional Advanced Techniques for the Analysis of Bergamot Oil”.  
Invited Oral Communication

**63** International Congress, Bergamott98, Reggio Calabria, Italy, November 30- December 2, 1998.

Paola Dugo, Luigi Mondello and Rosaria Costa.  
“Coumarins and Psoralens Content of Calabrian Bergamot Essential Oils”.  
Oral Communication

**64** International Congress, Bergamott98, Reggio Calabria, Italy, November 30- December 2, 1998.

Giovanni Dugo, Luigi Mondello, Francesco Crispo and Antonella Cotroneo.  
“Enantiomeric Distribution of Volatile Components of the Bergamot Oil”.  
Oral Communication

**65** Università di Messina, Dipartimento Farmaco-Chimico, Metodiche HPLC e HPLC/MS per lo studio di Sostanze Naturali Biologicamente Attive, Messina, 17 Marzo 1999.

Luigi Mondello, Giacinto Errante, Giovanni Zappia, Paola Dugo e Giovanni Dugo.  
“HPLC semipreparativa e analitica e HPLC/MS per l’isolamento, l’identificazione e il dosaggio delle antocianine di succhi di arance pigmentate”.  
Invited Oral Communication

**66** Università di Messina, Dipartimento Farmaco-Chimico, Metodiche HPLC e HPLC/MS per lo studio di Sostanze Naturali Biologicamente Attive, Messina, 17 Marzo 1999.

Paola Dugo, Luigi Mondello e Giovanni Dugo.  
“Identificazione di componenti minori della frazione a nucleo eterociclico contenente ossigeno degli olii essenziali agrumari mediante HPLC/MS”.  
Invited Oral Communication

**67** Università di Ferrara, Dip. Scienze Farmaceutiche, Facoltà di Farmacia, Metodiche HPLC e HPLC-MS per la Ricerca di Sostanze Naturali e di Xenobiotici nelle Bevande, Ferrara, Italia, 14 Maggio 1999.

L. Mondello  
“Metodiche HPLC e HPLC/MS per lo studio delle antocianine di succhi di arance pigmentate”.  
Invited Oral Communication

**68** Twenty-first International Symposium on Capillary Chromatography and Electrophoresis, Park City, Utah, USA, June 20-24, 1999.

Luigi Mondello, Giovanni Zappia, Giacomo Dugo and Giovanni Dugo.  
“Fast GC for the Analysis of Natural Matrices”.  
Invited Oral Communication

- 69** 8th International Meeting on Recent Developments in Pharmaceuticaas Analysis (RDPA '99), Rome, June 29-July 3, 1999.  
G. Errante, L. Mondello, P. Dugo, G. Dugo and G. Lamonica.  
“Analytical and Semipreparative HPLC and HPLC/MS for Isolation, Identification and Quantitative Analysis of Anthocyanins of Blood Orange Juices”.  
Invited Poster Communication
- 70** III Reunião da Sociedade Latino-Americana de Fitoquímica, Gramado, Brasil, de 13 a 17 de Setembro de 1999.  
I. Loayza, W. De Groot, D. Lorenzo, E. Dellacassa, L. Mondello and G. Dugo.  
“Composition of the Essential Oil of *Porophyllum Ruderale* (Jacq.) Cass. from Bolivia”.  
Poster Communication
- 71** 4° Congresso Italiano di Scienza e Tecnologia degli Alimenti - CISETA -, Cernobbio, 16-17 Settembre 1999.  
P. Dugo, L. Mondello, G. Zappia, R. Stancanelli, G. Dugo and S. Ogliari.  
“HPLC-APci-MS Analysis of Coumarins, Psoralens and Polymethoxylated Flavones of Citrus Essential Oils”.  
Invited Poster Communication
- 72** 4° Congresso Italiano di Scienza e Tecnologia degli Alimenti - CISETA -, Cernobbio, 16-17 Settembre 1999.  
P. Dugo, L. Mondello, G. Errante, G. Lamonica, G. Dugo and S. Ogliari.  
“Qualitative and Quantitative Analysis of Anthocyanins of Blood Orange Juices by HPLC and HPLC/MS”.  
Invited Poster Communication
- 73** Le Nuove Frontiere della Scienza della Separazione, Ferrara, Italia, 12-13 Ottobre 1999.  
Luigi Mondello e Giovanni Dugo.  
“Approcci gascromatografici innovativi per lo studio di matrici complesse”.  
Oral Communication
- 74** Workshop “Tecniche cromatografiche e tecnologie innovative nella produzione e controllo degli alimenti. Cagliari, Italia, 14-15 Ottobre 1999.  
G. Dugo, L. Mondello.  
“Gascromatografia ultraveloce per l’analisi di matrici alimentari”.  
Oral Communication
- 75** 13<sup>a</sup> Rassegna Internazionale della Chimica e 36<sup>a</sup> Edizione Mac '99, Milano, Italia, 19-22 ottobre 1999.  
Luigi Mondello, Giovanni Zappia, Giacomo Dugo, Giovanni Dugo and Franco Bruno.  
“Fast GC for the Analysis of Fatty Acid Methyl Esters (FAMES) in Natural Fats”.  
Invited Poster Communication
- 76** 13<sup>a</sup> Rassegna Internazionale della Chimica e 36<sup>a</sup> Edizione Mac '99, Milano, Italia, 19-22 ottobre 1999.  
Luigi Mondello, Paola Dugo, Giacinto Errante, Giovanni Dugo and Stefano Ogliari.  
“HPLC and HPLC/MS for isolation, identification and quantitative analysis of anthocyanins of blood orange juices”.  
Invited Poster Communication

- 77** 13<sup>a</sup> Rassegna Internazionale della Chimica e 36<sup>a</sup> Edizione Mac '99, Milano, Italia, 19-22 ottobre 1999.  
Luigi Mondello, Giovanni Zappia, Paola Dugo, Giacomo Dugo, Giovanni Dugo and Franco Bruno.  
“Fast GC for the Analysis of Essential Oils”.  
Invited Poster Communication
- 78** 13<sup>a</sup> Rassegna Internazionale della Chimica e 36<sup>a</sup> Edizione Mac '99, Milano, Italia, 19-22 ottobre 1999.  
Paola Dugo, Luigi Mondello, Giovanni Zappia, Giovanni Dugo and S. Ogliari.  
“Characterisation of the Oxygen Heterocyclic Compounds of Citrus Essential Oils by HPLC-APCI<sup>+</sup>-MS”.  
Invited Poster Communication
- 79** 22nd International Symposium on Capillary Chromatography, Gifu, Japan, November 8-12, 1999.  
L. Mondello, G. Zappia, P. Dugo, Giacomo Dugo, H.M. McNair, G. Dugo.  
“Fast GC for the Analysis of Essential Oils”.  
Invited Poster Communication
- 80** 22nd International Symposium on Capillary Chromatography, Gifu, Japan, November 8-12, 1999.  
L. Mondello, G. Zappia, I. Bonaccorsi, Giacomo Dugo, H.M. McNair, G. Dugo.  
“Fast GC for the Analysis of Natural Matrices. Determination of Fatty Acids Methyl Esters (FAMES) in Natural Fats”.  
Invited Poster Communication
- 81** 22nd International Symposium on Capillary Chromatography, Gifu, Japan, November 8-12, 1999.  
L. Mondello, A. Cotroneo, Giacomo Dugo, Keith D. Bartle and G. Dugo.  
“Multidimensional GC for the Analysis of Chiral Compounds”.  
Invited Poster Communication
- 82** 22nd International Symposium on Capillary Chromatography, Gifu, Japan, November 8-12, 1999.  
P. Dugo, L. Mondello, G. Errante, L. Dugo, G. Dugo.  
“Analysis of Volatile Flavour Compounds in Alcoholic Beverages Made with Fruits by SPME-GC”.  
Invited Poster Communication
- 83** Solution for Scientists Symposium, Olympia, London, UK, 29-30 November 1999.  
Luigi Mondello and Giovanni Dugo.  
“Multidimensional Capillary Gas Chromatography for the Analysis of Real Samples”.  
Invited Oral Communication
- 84** International Citrus Symposium, Orlando, Florida, USA, February 15-18, 2000.  
L. Mondello, G. Zappia, P. Dugo, Giacomo Dugo, G. Dugo and H.M. McNair.  
“Fast GC for the Analysis of Citrus Essential Oils”.  
Invited Oral Communication

- 85** International Citrus Symposium, Orlando, Florida, USA, February 15-18, 2000.  
G. Dugo, L. Mondello, A. Cotroneo and M. Catalfamo.  
“Study on the Enantiomeric Distribution of Volatile Components of Citrus Essential Oils by Multidimensional Gas Chromatography (MDGC)”.  
Invited Oral Communication
- 86** International Citrus Symposium, Orlando, Florida, USA, February 15-18, 2000.  
P. Dugo, L. Mondello, G. Errante and G. Dugo.  
“Liquid Chromatography Coupled to Mass Spectrometry for the Identification of Oxygen Heterocyclic Compounds in Citrus Essential Oils”.  
Invited Oral Communication
- 87** Applicazioni di Tecniche Analitiche Innovative per una Migliore Conoscenza del Vino e dell'Olio d'Oliva, Marsala, Italia, 19 Aprile 2000.  
Luigi Mondello.  
“Applicazione di un sistema gascromatografico ultraveloce all’analisi degli olii d’oliva”.  
Oral Communication
- 88** Le Tecniche Strumentali nello Studio dell’Ambiente e della Salute Umana, Siena, Italia, 2 Giugno 2000.  
F. Bruno, L. Mondello, G. Dugo.  
“Nuove tecniche strumentali per la determinazione di inquinanti ambientali”.  
Oral Communication
- 89** 23rd International Symposium on Capillary Chromatography, Riva del Garda, Italy, June 5-10, 2000.  
A. Cavazza, K.D. Bartle, P. Dugo and L. Mondello.  
“Analysis of Citrus Essential Oils by Capillary Electrochromatography (CEC) in Reversed Phase and with Non-aqueous Mobile Phase”.  
Poster Communication
- 90** 23rd International Symposium on Capillary Chromatography, Riva del Garda, Italy, June 5-10, 2000.  
L. Mondello, G. Zappia, P. Dugo, Giacomo Dugo, I. Bonaccorsi and G. Dugo.  
“Fast-GC/FPD Determination of Organophosphorous Pesticides in Natural Complex Matrices”.  
Poster Communication
- 91** 23rd International Symposium on Capillary Chromatography, Riva del Garda, Italy, June 5-10, 2000.  
L. Mondello, G. Zappia, P. Dugo, Giacomo Dugo, I. Bonaccorsi and G. Dugo.  
“Identification of Complex Samples by Fast-GC/MS Using Linear Retention Indices in Conjunction with the MS-Library”.  
Poster Communication
- 92** Applicazioni di Tecniche Analitico-Strumentali nel Settore Agroalimentare, Grugliasco, Torino, Italia, 13 Giugno 2000.  
F. Bruno, L. Mondello, G. Dugo.  
“Fast GC con rivelatore fotometrico a fiamma su pesticidi in prodotti agroalimentari”  
Oral Communication



- 93** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
Dugo G., Mondello L.  
“Approcci gascromatografici innovativi per lo studio di matrici complesse”  
Invited Oral Communication
- 94** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
L. Mondello, G. Zappia, I. Bonaccorsi, Giacomo Dugo, Giovanni Dugo.  
“GC veloce per l’analisi di matrici naturali. Determinazione di acidi grassi metilesteri (FAMES) in grassi naturali”.  
Oral Communication
- 95** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
Paola Dugo, Luigi Mondello, Giacinto Errante, Giovanni Dugo.  
“Caratterizzazione mediante HPLC/MS con interfaccia API di flavonoidi in matrici naturali”.  
Oral Communication
- 96** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
I. Nicoletti, C. Corradini, P. Dugo, L. Mondello, R. Stancanelli.  
“Impiego di metodi cromatografici miniaturizzati applicati allo studio e alla caratterizzazione di nuovi integratori alimentari”.  
Oral Communication
- 97** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
Cavazza A., Bartle K.D., Dugo P., Mondello L.  
“Analisi di composti eterociclici ossigenati in olii essenziali di agrumi mediante elettrocromatografia capillare (CEC) e confronto con HPLC”.  
Poster Communication
- 98** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
A. Cavazza, K. D. Bartle, P. Dugo, L. Mondello.  
“Analisi di polimetossiflavoni in olii essenziali di agrumi mediante elettrocromatografia capillare”.  
Poster Communication
- 99** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
Mondello L., Zappia G., Dugo P., Dugo Giacomo, Dugo G.  
“GC veloce per l’analisi di oli essenziali”.  
Poster Communication
- 100** IV Congresso Nazionale di Chimica degli Alimenti, Ferrara, Italia, 28-30 Giugno 2000.  
P. Dugo, L. Mondello, G. Errante, G. Dugo.  
“Analisi di componenti volatili in bevande alcoliche a base di frutta mediante SPME-GC”.  
Poster Communication
- 101** IX Congresso Italo-Latinoamericano di Etnomedicina, Urbino 18-20, Roma 21 Settembre 2000.  
Giovanni Dugo e Luigi Mondello.  
“Gascromatografia Ultraveloce per l’Analisi di Matrici Complesse (Olii Essenziali, Grassi Animali e Vegetali)”  
Invited Oral Communication

- 102** 23rd International Symposium on Chromatography, Olympia, London, UK, October 1-5, 2000.  
L. Mondello, G. Zappia and G. Dugo.  
“Fast GC and Fast GC-MS for analysis of natural complex mixtures”.  
Invited Oral Communication
- 103** Recenti Sviluppi e Nuovi Campi di Applicazione della LC-MS in Campo Chimico, Biologico e Biotecnologico, Milano, Italia, 24 Novembre 2000.  
Luigi Mondello e Paola Dugo  
“Analisi in HPLC-MS con interfaccia a pressione ambiente (API) di composti naturali biologicamente attivi”.  
Invited Oral Communication
- 104** Terzo Millennio: Il Futuro della Chimica Analitica nel Controllo Alimentare ed Ambientale, Roma, Italia, 22-24 Febbraio 2001.  
L. Mondello, G. Zappia, G. Dugo, R. Shellie, P.J. Marriott.  
“Metodi Gascromatografici Innovativi per l’Analisi di Matrici Complesse Alimentari”.  
Oral Communication
- 105** 24th International Symposium on Capillary Chromatography and Electrophoresis, Las Vegas, USA, May 20-24, 2001.  
Robert Shellie, Philip Marriott, Giovanni Zappia and Luigi Mondello.  
“Chiral Essential Oil Analysis using Comprehensive Gas Chromatography”.  
Poster Communication
- 106** 9th International Meeting on Recent Developments in Pharmaceutical Analysis-RDPA '01, Lipari, Aeolian Islands, Messina, Italy, June 5-8, 2001.  
L. Mondello and G. Dugo.  
“Advanced Analytical Techniques for Pharmaceutical Analysis. The New Millenium Frontier”  
Invited Oral Communication
- 107** 9th International Meeting on Recent developments in Pharmaceutical Analysis RDPA '01, Lipari, Aeolian Islands, Messina, Italy, June 5-8, 2001.  
Dugo P., Mondello L., Zappia G., Errante G., Dugo G.  
“Evaluation of Triacylglycerol (TAG) content in Vegetable Oils by Nonaqueous Reversed-Phase High Performance Liquid Chromatography (NARP-HPLC) with Atmosphere Pressure Chemical Ionisation Mass Spectrometry (HPLC/APCI/MS) Detection”.  
Poster Communication
- 108** 9th International Meeting on Recent developments in Pharmaceutical Analysis RDPA '01, Lipari, Aeolian Islands, Messina, Italy, June 5-8, 2001.  
Dugo P., Mondello L., Errante G., Zappia G., Dugo G., Serraino I., Dugo L., Cuzzocrea S.  
“HPLC/ESI/MS Analysis of Anthocyanins in Red Fruits”.  
Poster Communication
- 109** 9th International Meeting on Recent developments in Pharmaceutical Analysis RDPA '01, Lipari, Aeolian Islands, Messina, Italy, June 5-8, 2001.  
L. Mondello, G. Zappia, G. Errante, P. Dugo and G. Dugo.  
“Fast GC for the Analysis of Fats and Oils”.  
Poster Communication

- 110** 9th International Meeting on Recent developments in Pharmaceutical Analysis RDPA '01, Lipari, Aeolian Islands, Messina, Italy, June 5-8, 2001.  
L. Mondello, G. Zappia, G. Errante, P. Dugo and G. Dugo.  
“Multidimensional Gas Chromatography (MDGC) for the Analysis of Chiral Compounds”.  
Poster Communication
- 111** Tecniche Cromatografiche Innovative nel Settore Agro-Alimentare, Cagliari, Italia, 17 Luglio 2001.  
Luigi Mondello.  
“HPLC e HPLC/MS per la determinazione di sostanze biologicamente attive da matrici alimentari”.  
Invited Oral Communication
- 112** GC-2010 Tour, Duisburg, Germany, September 4, 2001.  
Luigi Mondello and Giovanni Dugo.  
“Conventional and Fast GC for the Analysis of Natural Complex Mixtures”.  
Invited Oral Communication
- 113** GC-2010 Tour, Darmstadt, Germany, September 6, 2001.  
Luigi Mondello and Giovanni Dugo.  
“Conventional and Fast GC for the Analysis of Natural Complex Mixtures”.  
Invited Oral Communication
- 114** GC-2010 Tour, Berlin, Germany, September 11, 2001.  
Luigi Mondello and Giovanni Dugo.  
“Conventional and Fast GC for the Analysis of Natural Complex Mixtures”.  
Invited Oral Communication
- 115** GC-2010 Tour, Leipzig, Germany, September 12, 2001.  
Luigi Mondello and Giovanni Dugo.  
“Conventional and Fast GC for the Analysis of Natural Complex Mixtures”.  
Invited Oral Communication
- 116** GC-2010 Tour, Munchen, Germany, September 13, 2001.  
Luigi Mondello and Giovanni Dugo.  
“Conventional and Fast GC for the Analysis of Natural Complex Mixtures”.  
Invited Oral Communication
- 117** 5° Congresso Italiano di Scienza e Tecnologia degli Alimenti (CISETA), Cernobbio (CO) 13-14 September 2001.  
L. Mondello, G. Zappia, G. Dugo.  
“Metodi cromatografici innovativi per l’analisi di matrici complesse alimentari”.  
Poster Communication
- 118** 6th Workshop on the “Developments in the Italian PhD Research in Food Science and Technology”, Acitrezza (CT), Italy, 20-22 Settembre 2001.  
G. Dugo, L. Mondello.  
“Gascromatografia convenzionale e ultraveloce per l’analisi di miscele naturali complesse”.  
Invited Oral Communication

- 119** 15. Norske Symposium i Kromatografi, Sandefjord, Norvegia, 6-8 Gennaio 2002.  
L. Mondello and G. Dugo.  
“Advanced Analytical Techniques for Nutraceuticals Analysis”.  
Invited Oral Communication
- 120** Seventh International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Brugge, Belgium, February 6-8, 2002.  
L. Mondello, P. Dugo and G. Dugo.  
“Advanced Analytical Techniques for the Characterization of Complex Matrices: Multidimensional and Fast GC Methods”.  
Invited Oral Communication
- 121** Attualità ed Interdisciplinarietà della Chimica Analitica, Roma, Italia, 20-22 Febbraio 2002.  
Luigi Mondello e Giovanni Dugo.  
“Metodi cromatografici innovativi per l’analisi di miscele naturali”.  
Oral Communication
- 122** Attualità ed Interdisciplinarietà della Chimica Analitica, Roma, Italia, 20-22 Febbraio 2002.  
Luigi Mondello e Giovanni Dugo.  
“Tecniche gascromatografiche innovative per l’analisi degli oli essenziali: una realtà di oggi che trae origine da una brillante intuizione del passato del prof. Arnaldo Liberti”.  
Oral Communication
- 123** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.  
Luigi Mondello and Giovanni Dugo.  
“Multidimensional and Fast-GC Methods for Food Analysis”.  
Invited Oral Communication
- 124** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.  
Luigi Mondello, Paola Dugo, Adriana Lloret and Giovanni Dugo.  
“Fast GC for the Analysis of the Volatile Fraction of Citrus Oils”.  
Poster Communication
- 125** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.  
Luigi Mondello, Paola Dugo, Ivana Bonaccorsi, Adriana Lloret, Lucia Cicero and Giovanni Dugo.  
“Determination of Fatty Acid Methyl Esters in Fats and Oils by Fast-GC”.  
Poster Communication
- 126** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.  
P. Dugo, L. Mondello, D. Morabito and G. Dugo.  
“MicroHPLC-ESI-MS of Anthocyanins in Fruit Juices”.  
Poster Communication
- 127** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.  
Luigi Mondello, Paola Dugo, Adriana Lloret and Giovanni Dugo.

“Identification of Complex Samples by Fast GC/MS using a Conventional Mass Spectrometer”.

Poster Communication

**128** 25th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.

Luigi Mondello, Paola Dugo, Adriana Lloret, Lucia Cicero, Giacomo Dugo and Giovanni Dugo.

“Determination of Organophosphorous Pesticides in Vegetable Oils by Fast-GC/FPD and Fast-GC/FTD”.

Poster Communication

**129** Semináře “Fast GC”, Brně, Czek Republic, 22 Maggio 2002.

Luigi Mondello and Giovanni Dugo.

“Theory of Fast GC”.

Invited Oral Communication

**130** Semináře “Fast GC”, Brně, Czek Republic, 22 Maggio 2002.

Luigi Mondello and Giovanni Dugo.

“Application of fast GC to Real Natural Samples”.

Invited Oral Communication

**131** Premio Sapio per la Ricerca Italiana 2002, Roma, Italia, 4 Giugno 2002.

Luigi Mondello.

“Gascromatografia veloce e multidimensionale per il controllo di qualità di oli essenziali”.

Invited Oral Communication

**132** Scienza, etica e mercato nelle produzioni agricole, Marsala, Italia, 18 Giugno 2002. Erice, Italia, 19 Giugno 2002.

Paola Dugo, Luigi Mondello.

“Determinazione del tenore in antociani in vini siciliani”.

Invited Oral Communication

**133** Scienza, etica e mercato nelle produzioni agricole, Marsala, Italia, 18 Giugno 2002. Erice, Italia, 19 Giugno 2002.

Luigi Mondello.

“Analisi Fast-GC di matrici alimentari”.

Invited Oral Communication

**134** Metodi cromatografici innovativi per la caratterizzazione di polifenoli ed altri componenti minori nel vino, Roma, Italia, 20 Giugno 2002.

Paola Dugo, Luigi Mondello e Giovanni Dugo.

“Analisi  $\mu$ HPLC e  $\mu$ HPLC-ESI-MS della frazione antocianinica dei vini rossi”.

Invited Oral Communication

**135** Massa 2002, An International Symposium on Mass Spectrometry, Cetraro (CS), Italia, 27 Giugno-1 Luglio 2002.

Paola Dugo, Luigi Mondello e Giovanni Dugo.

“Micro HPLC/MS per lo Studio di Molecole Biologicamente attive in Matrici Alimentari”.

Invited Oral Communication

- 136** Il Laboratorio di Prova nel Monitoraggio Ambientale e Biologico dell'Esposizione Professionale a Xenobiotici, Fondazione "Salvatore Maugeri", Pavia, Italia, 4 Ottobre 2002.  
F. Bruno, L. Mondello e G. Dugo.  
"Possibilità e Potenzialità Applicative della GC-High Speed".  
Oral Communication
- 137** FAFS, Food Authenticity and Food Safety. Metodiche Analitiche Avanzate Applicate all'Autenticazione ed alla Sicurezza Alimentare, Novara, Italia, 17-18 Ottobre 2002.  
Luigi Mondello, Paola Dugo e Giovanni Dugo.  
"Metodi Cromatografici Miniaturizzati (Ultra-fast e Multidimensionali) per la Caratterizzazione di Matrici Alimentari".  
Oral Communication
- 138** FAFS, Food Authenticity and Food Safety. Metodiche Analitiche Avanzate Applicate all'Autenticazione ed alla Sicurezza Alimentare, Novara, Italia, 17-18 Ottobre 2002.  
Franco Bruno, Luigi Mondello e Giovanni Dugo.  
"L'evoluzione Strumentale e le Tecniche Innovative nella Gascromatografia 'Ultra Fast' e nella 'Fast' GC-MS".  
Oral Communication
- 139** FAFS, Food Authenticity and Food Safety. Metodiche Analitiche Avanzate Applicate all'Autenticazione ed alla Sicurezza Alimentare, Novara, Italia, 17-18 Ottobre 2002.  
Luigi Mondello, Paola Dugo, Ivana Bonaccorsi, Adriana Lloret, Lucia Cicero e Giovanni Dugo.  
"Determinazione degli Esteri Metilici degli Acidi Grassi di Oli e Grassi mediate Fast-GC".  
Poster Communication
- 140** FAFS, Food Authenticity and Food Safety. Metodiche Analitiche Avanzate Applicate all'Autenticazione ed alla Sicurezza Alimentare, Novara, Italia, 17-18 Ottobre 2002.  
Paola Dugo, Luigi Mondello, Domenica Morabito e Giovanni Dugo.  
"MicroHPLC-MS per lo Studio della Frazione Antocianinica in Matrici Alimentari".  
Poster Communication
- 141** First International Symposium on Comprehensive Multidimensional Gas Chromatography, Volendam, Netherlands, March 6-7, 2003.  
Luigi Mondello, Alessandro Casilli and Giovanni Dugo.  
"Comprehensive GCxGC for Food Analysis".  
Poster Communication
- 142** Fast GC and Fast GC/MS Seminar, Hannover, Germany, 1 Aprile 2003.  
Luigi Mondello.  
"Ultra-Fast GC for the Analysis of Adulterations in Oils and Fats".  
Invited Oral Communication
- 143** Fast GC and Fast GC/MS Seminar, Berlin, Germany, 2 Aprile 2003.  
Luigi Mondello.  
"Ultra-Fast GC for the Analysis of Adulterations in Oils and Fats".  
Invited Oral Communication
- 144** Fast GC and Fast GC/MS Seminar, Leipzig, Germany, 3 Aprile 2003.

Luigi Mondello.

“Ultra-Fast GC for the Analysis of Adulterations Oils and Fats”.

Invited Oral Communication

**145** Fast GC and Fast GC/MS Seminar Duisburg, Germany, 8 Aprile 2003.

Luigi Mondello.

“Ultra-Fast GC for the Analysis of Adulterations in Oils and Fats”.

Invited Oral Communication

**146** Fast GC and Fast GC/MS Seminar, Munich, Germany, 10 Aprile 2003.

Luigi Mondello.

“Ultra-Fast GC for the Analysis of Adulterations in Oils and Fats”.

Invited Oral Communication

**147** 26th International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Luigi Mondello, and Giovanni Dugo.

“Comprehensive GCXGC for Food Analysis”.

Oral Communication

**148** 26th International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

P.Q. Tranchida, L. Mondello and G. Dugo.

“The Application of Ultra-fast GC in Analytical Food Chemistry”.

Poster Communication

**149** 26th International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Luigi Mondello, Peter Quinto Tranchida, Lucia Cicero, Alessandro Casilli, Paola Dugo and Giovanni Dugo.

“Determination of Essential Oil Composition and Adulterants with Ultra-fast GC”.

Poster Communication

**150** 26<sup>th</sup> International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Luigi Mondello, Peter Quinto Tranchida, Rosaria Costa, Biagina Chiofalo, Alessandro Casilli, Paola Dugo and Giovanni Dugo.

“Application of Ultra-fast GC in the Analysis of Lipids”.

Poster Communication

**151** 26th International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Luigi Mondello, Peter Quinto Tranchida, Lucia Cicero, Athanasia Sakkà, Paola Dugo, Rosaria Costa, Vincenzo Chiofalo and Giovanni Dugo.

“Reliable Identification of Classes of Compounds using Spectrometric Informations with Linear Retention Indices”.

Poster Communication

**152** 26th International Symposiumon Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Luigi Mondello, Peter Quinto Tranchida, Lucia Cicero, Alessandro Casilli, Paola Dugo and Giovanni Dugo.

“Determination of Organophosphorous Pesticides in Vegetable Oils by Ultra-fast GC/FPD and Ultra-fast GC/FTD”.

Poster Communication

**153** 26th International Symposium on Capillary Chromatography and Electrophoresis, Las Vegas, Nevada, USA, May 18-22, 2003.

Paola Dugo, Luigi Mondello, Olinda Favoino, Maria Lo Presti, Rosario Luppino and Giovanni Dugo.

“MicroHPLC-ESI-MS and MicroHPLC-UV-PDA of anthocyanins in fruit juices”.

Poster Communication

**154** Séminaire de Grasse. Techniques d’analyses rapide pour arômes et parfums, Grasse, France, 5 Juin 2003.

Luigi Mondello.

“Fast GCMS pour analyses des huiles et acides gras”.

Invited Oral Communication

**155** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello e Giovanni Dugo.

“La gascromatografia ortogonale (GCXGC) per l’analisi di matrici alimentari”.

Oral Communication

**156** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Paola Dugo, Luigi Mondello, Olinda Favoino, Maria Lo Presti, Rosario Luppino e Giovanni Dugo.

“Micro HPLC-ESI-MS e Micro HPLC-UV-PDA di antocianine in succhi di frutta”.

Oral Communication

**157** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Peter Quinto Tranchida, Rosaria Costa, Biagina Chiofalo, Alessandro Casilli, Paola Dugo e Giovanni Dugo.

“Applicazione dell’Ultrafast-GC per l’analisi dei lipidi”.

Oral Communication

**158** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Alessandro Casilli, Peter Quinto Tranchida, Lucia Cicero, Paola Dugo, Antonella Cotroneo e Giovanni Dugo.

“Determinazione della composizione e individuazione delle adulterazioni degli olii essenziali mediante Ultrafast-GC”.

Oral Communication

**159** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Rosaria Costa, Biagina Chiofalo, Alessandro Zumbo, Paola Dugo e Giovanni Dugo.



“Analisi dei componenti volatili dell’aroma di formaggio caprino siciliano mediante SPME-GC/MS”.

Oral Communication

**160** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Paola Dugo, Luigi Mondello, Rosario Luppino, Olinda Favoino e Giovanni Dugo.

“Analisi dei trigliceridi in olii e grassi di origine animale e vegetale mediante HPLC con colonne monolitiche”.

Poster Communication

**161** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Maria Chiara Pietrogrande, Luigi Mondello e Giovanni Dugo.

“Analisi gascromatografica di olii essenziali: decodifica di cromatogrammi complessi mediante analisi di fourier”.

Poster Communication

**162** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Rosaria Costa, Biagina Chiofalo, Vincenzo Chiofalo, Luigi Liotta, Paola Dugo e Giovanni Dugo.

“Caratteristiche della frazione lipidica delle carni del suino nero siciliano mediante GC ultraveloce”.

Poster Communication

**163** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Peter Quinto Tranchida, Lucia Cicero, Alessandro Casilli, Paola Dugo e Giovanni Dugo.

“Determinazione di pesticidi organofosforici in olii vegetali mediante Ultrafast GC/FPD e Ultrafast GC/FTD”.

Poster Communication

**164** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

I. Serraino, L. Dugo, P. Dugo, L. Mondello, E. Mazzon, G. Dugo, A.P. Caputi e S. Cuzzocrea.

“Effetti protettivi della Cyanidin-3-O-Glucoside estratta dal succo di more nei confronti del danno vascolare e della disfunzione endoteliale indotta dal perossinitrito”.

Poster Communication

**165** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

A. Rossi, I. Serraino, P. Dugo, R. Di Paola, L. Mondello, T. Genovese, G. Dugo, L. Sautebin, A.P. Caputi e S. Cuzzocrea.

“Effetti protettivi delle antocianine estratte dal succo di more in un modello di infiammazione acuta polmonare nel ratto”.

Poster Communication

**166** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Paola Dugo, Luigi Mondello, Olinda Favoino e Giovanni Dugo.  
“HPLC-APCI/MS di trigliceridi in olii e grassi di origine animale e vegetale”.  
Poster Communication

**167** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Paola Dugo, Luigi Mondello, Maria Lo Presti, Olinda Favoino.  
“HPLC-APCI/MS per l’analisi dei componenti a nucleo eterociclico contenente ossigeno degli olii essenziali agrumari”.  
Poster Communication

**168** Qualità e Sicurezza degli Alimenti. V Congresso Nazionale di Chimica degli Alimenti, Parma, Italia, 9-12 Giugno 2003.

Luigi Mondello, Peter Quinto Tranchida, Lucia Cicero, Athanasia Sakkà, e Giovanni Dugo.  
“Identificazione di componenti di miscele complesse mediante GC/MS e indici di ritenzione lineari”.  
Poster Communication

**169** XXI Congresso Nazionale della Società Chimica Italiana, Torino, Italia, 22-27 Giugno 2003.

Luigi Mondello, Paola Dugo, Giovanni Dugo.  
“Fast GC/MS con Colonne Micro-bore e Macro-bore”.  
Invited Oral Communication

**170** Fast GC and Fast GC/MS Seminar, Madrid, Spagna, 25 Giugno 2003.

Luigi Mondello.  
“Ultra-fast GC and Ultra-fast GC/MS for the Analysis of Essential Oils and Fats”.  
Invited Oral Communication

**171** Fast GC and Fast GC/MS Seminar, Barcelona, Spagna, 25 Giugno 2003.

Luigi Mondello.  
“Ultra-fast GC and Ultra-fast GC/MS for the Analysis of Essential Oils and Fats”.  
Invited Oral Communication

**172** 10th Meeting on Recent Developments in Pharmaceutical Analysis, Cogne, Valle D’Aosta, Italy, 28 June-1 July, 2003.

G. Dugo, L. Mondello.  
“Innovative Gas Chromatographic Approach in Environmental and Food Chemistry”.  
Invited Oral Communication

**173** Sicurezza alimentare e certificazione di qualità, Castel del Monte, Andria, Bari, Italia, 4 Luglio 2003.

Luigi Mondello.  
“Metodi Innovativi di Analisi Cromatografia nel Campo Agroalimentare (Fast GC, Fast GC-MS, GCxGC)”.  
Invited Oral Communication

**174** 34th International Symposium On Essential Oils, Wurzburg, Germany, September 7-10, 2003.

Luigi Mondello and Giovanni Dugo.  
“Ultra Fast GC and Ultra Fast GC/MS for the Analysis of Essential Oils”.  
Oral Communication

- 175** 34th International Symposium On Essential Oils, Wurzburg, Germany, September 7-10, 2003.  
Luigi Mondello, Alessandro Casilli, Peter Quinto Tranchida, Paola Dugo and Giovanni Dugo.  
“Ultra-Fast GC for the Determination of Essential Oil Composition and Adulteration”.  
Poster Communication
- 176** 34th International Symposium On Essential Oils, Wurzburg, Germany, September 7-10, 2003.  
Paola Dugo, Luigi Mondello, Olinda Favoino, Maria Lo Presti, Rosario Luppino and Giovanni Dugo.  
“Characterisation of Oxygen Heterocyclic Components of Cold-pressed Citrus Essential Oils”.  
Poster Communication
- 177** La Microestrazione in fase solida (SPME), Messina, Italia, 28 Ottobre 2003.  
L. Mondello, P.Q.Tranchida, R.Costa, A.Casilli e G. Dugo.  
“Analisi SPME-GC e SPME-GCxGC dei componenti dell’Aroma del Caffè Tostato”.  
Invited Oral Communication
- 178** La Microestrazione in fase solida (SPME), Messina, Italia, 28 Ottobre 2003.  
L. Mondello, R.Costa, B. Chiofalo, A. Zumbo, P. Dugo e G. Dugo.  
“Analisi dei componenti Volatili nell’Aroma del formaggio mediante SPME-GC/MS”.  
Invited Oral Communication
- 179** Giornate di Scienza delle Separazioni. Alimentazione, Ambiente, Salute: le sfide analitiche che attendono i giovani. C.N.R. – Area della Ricerca di Roma 1. 15-16 Dicembre 2003.  
Alessandro Casilli, Luigi Mondello, Paola Dugo e Giovanni Dugo.  
“Gascromatografia Multidimensionale (GCxGC) - Tecnica Innovativa per lo Studio di Matrici Alimentari”.  
Oral Communication
- 180** Giornate di Scienza delle Separazioni. Alimentazione, Ambiente, Salute: le sfide analitiche che attendono i giovani. C.N.R. – Area della Ricerca di Roma 1, 15-16 Dicembre 2003.  
R. Luppino, O. Favoino, M. Lo Presti, P. Dugo, G. Dugo e L. Mondello.  
“HPLC Multidimensionale (LCxLC) per lo Studio di Matrici Alimentari”.  
Oral Communication
- 181** Eighth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Brugge, Belgium, February 4-6, 2004.  
Luigi Mondello and Giovanni Dugo.  
“Comprehensive Multidimensional Chromatography for Food Analysis”.  
Invited Oral Communication
- 182** Eighth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Brugge, Belgium, February 4-6, 2004.  
Luigi Mondello.  
“Ultra Fast GC and Ultra Fast GC/MS for the Analysis of Real Complex Samples using 50 and 100 mm columns”.  
Invited Oral Communication

- 183** Eighth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Brugge, Belgium, February 4-6, 2004.  
Luigi Mondello, Alessandro Casilli, Peter Quinto Tranchida, Paola Dugo and Giovanni Dugo.  
“Comprehensive Gas Chromatographic Analysis of Food Matrices”.  
Poster Communication
- 184** Eighth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Brugge, Belgium, February 4-6, 2004.  
Paola Dugo, Olinda Favoino, Rosario Luppino, Maria Lo Presti, Giovanni Dugo and Luigi Mondello.  
“Comprehensive Two Dimensional NP (Adsorption)-RP Liquid Chromatography for Food Analysis”.  
Poster Communication
- 185** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 8 Avril 2004.  
Luigi Mondello.  
“Comprehensive GCxGC and Comprehensive GCxGC/qMS for the analysis of Flavour and Fragrances”.  
Invited Oral Communication
- 186** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 8 Avril 2004.  
Luigi Mondello.  
“Fast GC and GC/MS for the Analysis of Volatile Components”.  
Invited Oral Communication
- 187** Nouveaux développements pour l’analyse des arômes et parfums, Les Champs Blancs, Chavannes-de-Bogis, Switzerland, 23 Avril 2004.  
Luigi Mondello.  
“Comprehensive GCxGC and Comprehensive GCxGC/qMS for the analysis of Flavours and Fragrances”.  
Invited Oral Communication
- 188** Nouveaux développements pour l’analyse des arômes et parfums, Les Champs Blancs, Chavannes-de-Bogis, Switzerland, 23 Avril 2004.  
Luigi Mondello.  
“Fast GC and GC/MS for the Analysis of Volatiles”.  
Invited Oral Communication
- 189** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Dugo P., Dugo G., Mondello L.  
“Comprehensive Techniques for the Analysis of Natural Matrices”.  
Invited Oral Communication
- 190** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Casilli A., Tranchida P.Q., Cicero L., Costa R., Dugo P., Dugo G., Mondello L.  
“Fast Comprehensive GCxGC Food Analysis”.  
Poster Communication

- 191** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Casilli A., Costa R., Tranchida P.Q., Dugo P., Dugo G., Mondello L.  
“The Triple-Dimensional analysis of Highly Complex Food Samples Through GCxGC-q MS”.  
Poster Communication
- 192** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Tranchida P.Q., Casilli A., Cicero L., Dugo P., Dugo G., Mondello L.  
“Ultra-Fast GC Analysis with 50 µm I.D. Column: Practical Aspects and Applications”.  
Poster Communication
- 193** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Lo Presti M., Öhman M., Dugo P., Dugo G., Mondello L.  
“Determination of Flavonoids in Citrus Juices by Micro-HPLC”.  
Poster Communication
- 194** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Favonio O., Dugo P., Dugo G., Mondello L.  
“RP-LC Coupled to SI-LC-MS for the Characterisation of Triacylglycerol Positional Isomers.”  
Poster Communication
- 195** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Dugo P., Favonio O., Luppino R., Lo Presti M., Dugo G., Mondello L.  
“Comprehensive Two Dimensional Liquid Chromatography in the Study of Food Matrices”.  
Poster Communication
- 196** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Costa R., Casilli A., Tranchida P.Q., Festa S., Dugo P., Dugo G., Mondello L.  
“Automated SPME-GC/MS Analysis of Coffee Flavor”.  
Poster Communication
- 197** 27th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 31-June 4, 2004.  
Costa R., Chiofalo B., Chiofalo L., Dugo P., Dugo G., Mondello L.  
“SPME-GC/MS: A Suitable Technique for the Analysis of Cheese Aroma Profile”.  
Poster Communication
- 198** La Microestrazione in fase solida (SPME). Una tecnica semplice per determinare quantitativamente Nutrienti e Contaminanti in Matrici Alimentari ed Ambientali, Torino, Italia, 18 Giugno 2004.  
Franco Bruno, Luigi Mondello e Giovanni Dugo.  
“Strumentazione ed applicazioni della Tecnica Ultra Fast GC e Fast GCMS”.  
Invited Oral Communication

- 199** 10° Thermo Week. Corso di Cromatografia-Spettrometria di Massa. Applicazioni Agroalimentari, Acitrezza-CT, Italia, 21-24 Giugno 2004.  
Paola Dugo, Luigi Mondello e Giovanni Dugo.  
“Micro e nano-HPLC”.  
Invited Oral Communication
- 200** 10° Thermo Week. Corso di Cromatografia-Spettrometria di Massa, Applicazioni Agroalimentari, Acitrezza-CT, Italia, 21-24 Giugno 2004.  
Paola Dugo, Luigi Mondello, Giovanni Dugo e Giacomo Dugo.  
“Cromatografia multidimensionale”.  
Invited Oral Communication
- 201** 10° Thermo Week. Corso di Cromatografia-Spettrometria di Massa, Applicazioni Agroalimentari, Acitrezza-CT, Italia, 21-24 Giugno 2004.  
Paola Dugo, Luigi Mondello e Giovanni Dugo.  
“Olii essenziali agrumari, flavoni”.  
Invited Oral Communication
- 202** Nuovi approcci analitici nei settori ambientale ed alimentare, Oristano, Italia, 24 Giugno 2004.  
Franco Bruno, Luigi Mondello e Giovanni Dugo.  
“Le potenzialità delle tecniche Fast GC e Fast GC-MS: peculiarità costruttive della strumentazione analitica e settori di applicazione”.  
Invited Oral Communication
- 203** 6th Congress of the International Society for the Study of Fatty Acids and Lipids, Brighton, UK, June 27-July 1, 2004.  
Luigi Mondello.  
“Ultra Fast GC and Ultra Fast GC-MS for the Analysis of Fatty Acid Methyl Esters from Vegetable and Animal Lipids”.  
Invited Oral Communication
- 204** 6th Congress of the International Society for the Study of Fatty Acids and Lipids, Brighton, UK, June 27-July 1, 2004.  
Luigi Mondello and Giovanni Dugo.  
“Group Type Separation of Natural Fats and Oils by Comprehensive Two Dimensional Gas Chromatography (GCxGC)”.  
Invited Poster Communication
- 205** 8th International Conference on Goats, Pretoria, South Africa, 4-9 July, 2004.  
B. Chiofalo, A. Zumbo, R. Costa, L. Mondello, P. Dugo and V. Chiofalo.  
“Characterisation of the cheese flavour of the Maltese goats using SPME-GC/MS”.  
Poster Communication
- 206** 3<sup>a</sup> Scuola Nazionale Suolo e Acque Interne, Viterbo, Italia, 13-17 Settembre 2004.  
Giacinto Errante, Paola Dugo e Luigi Mondello.  
“Recenti sviluppi della IC-HPLC nell’analisi chimica strumentale”.  
Oral Communication
- 207** 2nd International Symposium on Comprehensive Multidimensional Gas Chromatography, Atlanta, Georgia, USA, August 31-September 3, 2004.  
Luigi Mondello, Peter Q. Tranchida, Alessandro Casilli, Giovanni Dugo, Paola Dugo.

“Comprehensive Two-Dimensional Gas Chromatography in Food Analysis”.  
Invited Oral Communication

**208** 2nd International Symposium on Comprehensive Multidimensional Gas Chromatography, Atlanta, Georgia, USA, August 31-September 3, 2004.  
P.Q. Tranchida, A. Casilli, G. Dugo, L. Mondello, P. Dugo.  
“Comprehensive Two-Dimensional Gas Chromatography in Combination with Rapid Scanning Quadrupole Mass Spectrometry in Complex Sample Analysis”.  
Poster Communication

**209** 2nd International Symposium on Comprehensive Multidimensional Gas Chromatography, Atlanta, Georgia, USA, August 31-September 3, 2004.  
A. Casilli, P.Q. Tranchida, G. Dugo, L. Mondello, P. Dugo.  
“Comprehensive GC (GCxGC) – An Innovative Approach for Food Analysis”.  
Poster Communication

**210** Euroanalysis XIII. European Conference on Analytical Chemistry, Salamanca, Spain, September 5-10, 2004.  
Luigi Mondello.  
“GCxGC and LCxLC: The new millenium comprehensive separation techniques”.  
Invited Oral Communication

**211** XVIII Congresso Nazionale di Chimica Analitica, Parma, Italia, 19-23 Settembre 2004.  
Luigi Mondello.  
“Nuovi metodi cromatografici (GCxGC e LCxLC) per l’identificazione di molecole di interesse alimentare”.  
Oral Communication

**212** XVI Edizione SIPAOC 2004. Siena, 29 Settembre-2 Ottobre 2004.  
Costa R., Chiofalo B., Mondello L., Dugo P., Chiofalo V.  
“Analisi mediante SPME-GC/MS della frazione volatile di formaggi tipici siciliani. Risultati preliminari”.  
Oral Communication

**213** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
P.Q. Tranchida, A. Casilli, M. Lo Presti, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“High-speed GC Essential Oil Analysis with 50 and 100  $\mu\text{m}$  ID Micro-bore Columns”.  
Oral Communication

**214** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
M. Lo Presti, R. Luppino, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“Comprehensive Two-dimensional NP (Adsorption)-RP Liquid Chromatography for Essential Oil Analysis”.  
Oral Communication

**215** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.

A. Casilli, P.Q. Tranchida, M. Lo Presti, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“GCxGC and GCxGC/qMS for Complex Samples Analysis”.  
Oral Communication

**216** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
M. Lo Presti, A. Trozzi, S. Ragusa, P. Dugo, G. Colnaghi, F. Visinoni, Giovanni Dugo and L. Mondello.  
“A Comparison of Microwave-Assisted, Hydro Distillation and Supercritical Fluid Techniques for the Preparation of Essential Oils”.  
Oral Communication

**217** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
M. Lo Presti, R. Luppino, T. Kumm, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“Comprehensive Two-Dimensional Liquid Chromatography in the Study of Essential Oils”.  
Poster Communication

**218** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
P.Q. Tranchida, A. Casilli, M. Lo Presti, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“High-speed GC Analysis with a 50  $\mu\text{m}$  ID Micro-bore Column: Theory, Practical Aspects and Application on a Complex Essential Oil Sample”.  
Poster Communication

**219** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
A. Casilli, P.Q. Tranchida, M. Lo Presti, P. Dugo, Giovanni Dugo, G. Scala, G. Errante and L. Mondello.  
“Comprehensive GC (GCxGC) – for Citrus Volatile Fraction Analysis”.  
Poster Communication

**220** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
M.C. Pietrogrande, L. Mondello and G. Dugo.  
“Gas-Chromatographic Analysis of Citrus Essential Oils: Decoding of Complex Chromatograms by Fourier Analysis”.  
Poster Communication

**221** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.  
M. Lo Presti, M.L. Crupi, P. Dugo, A. Trozzi, S. Ragusa, G. Colnaghi, F. Visinoni, Giovanni Dugo and L. Mondello.  
“Microwave-Assisted Hydro-Distillation of Essential Oils”.  
Poster Communication

**222** 35th International Symposium on Essential Oils, Giardini Naxos, Messina, Italy, September 29-October 2, 2004.



F.C. Pizzimenti, A. Nostro, A. Marino, G. Crisafi, F. Procopio, L. Mondello, D. Monteleone and V. Alonzo.

“*In vitro* inhibition of the growth of *Helicobacter pylori* by Bergamot essential oil”.

Poster Communication

**223** 25th International Symposium on Chromatography, Paris, France, October 4-8, 2004.

Luigi Mondello and Hans-Ulrich Baier.

“The Effect of Filter Time Constant in Fast GC using the GC-2010: Application on Kerosene Analysis”.

Poster Communication

**224** 25th International Symposium on Chromatography, Paris, France, October 4-8, 2004.

Luigi Mondello, Peter Quinto Tranchida, Alessandro Casilli, Paola Dugo and Giovanni Dugo.

“A Very Fast Method for the Preparation and GC Analysis of Human Plasma Fatty Acid Methyl Esters”.

Poster Communication

**225** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.

Mondello L., Tranchida P.Q., Casilli A., Dugo P. and Dugo G.

“Comprehensive two-dimensional liquid chromatography in the study of food matrices”.

Invited Oral Communication

**226** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.

Luigi Mondello.

“Bidimensionality in Gas Chromatography and the Introduction of a Third Mass Spectrometric Dimension”.

Invited Oral Communication

**227** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.

Luigi Mondello.

“Heart-cutting and Comprehensive Two-dimensional Gas Chromatography”.

Invited Oral Communication

**228** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.

Luigi Mondello.

“Ultra Fast GC and Ultra Fast GC-MS for the Analysis of Real World Complex Samples using 50 and 100  $\mu$ m ID Columns”.

Invited Oral Communication

**229** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.

Tiina Kumm, Maria Lo Presti, Alessandro Casilli, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello.

“Microwave-Assisted Hydro-Distillation of Essential Oils”.

Poster Communication

- 230** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.  
Tiina Kumm, Paola Dugo, Peter Quinto Tranchida, Alessandro Casilli, Giovanni Dugo, Luigi Mondello.  
“Very fast GC analysis with a 50 µm ID micro-bore column: method optimization and application on a complex essential oil sample”.  
Poster Communication
- 231** 10° Congresso Latino-Americano de Cromatografia e Técnicas Afins, Campos do Jordão (SP), Brazil, October 18-22, 2004.  
Tiina Kumm, Paola Dugo, Alessandro Casilli, Peter Quinto Tranchida, Giovanni Dugo, Luigi Mondello.  
“Comprehensive GC in combination with a rapid scanning quadrupole mass spectrometer in the 3D analysis of a highly complex perfume sample”.  
Poster Communication
- 232** Shimadzu Corporation, Nakagyo-ku, Kyoto, Japan, 1 Novembre 2004.  
Luigi Mondello e Paola Dugo.  
“Modern Techniques in Gas Chromatography”.  
Invited Oral Communication
- 233** Takasago International Corporation, Hiratsuka City, Kanagawa, Japan, 2 Novembre 2004.  
Luigi Mondello e Paola Dugo.  
“Modern Techniques in Gas Chromatography”.  
Invited Oral Communication
- 234** Zentsu-Kaikan, Tokyo, Japan, 4 Novembre 2004.  
Luigi Mondello e Paola Dugo.  
“Modern Techniques in Gas Chromatography”.  
Invited Oral Communication
- 235** Senli Life Science Center, Osaka, Japan, 5 Novembre 2004.  
Luigi Mondello e Paola Dugo.  
“Modern Techniques in Gas Chromatography”.  
Invited Oral Communication
- 236** GC/GCMS Séminaire. Nouveaux développements pour l’analyse des arômes et parfums, Paris, France, 16 Novembre 2004.  
Luigi Mondello.  
“Comprehensive GCxGC and Comprehensive GCxGC/qMS for the Analysis of Flavours and Fragrances”.  
Invited Oral Communication
- 237** GC/GCMS Séminaire. Nouveaux développements pour l’analyse des arômes et parfums, Paris, France, 16 Novembre 2004.  
Luigi Mondello.  
“Fast GC and Fast GC/MS for the Analysis of Volatiles”.  
Invited Oral Communication
- 238** Convegno Regionale della Società Chimica Italiana. Sezione Sicilia, Messina, Italia, 2-3 Dicembre 2004.

Rosaria Costa, Paola Dugo, Giovanni Dugo e Luigi Mondello.  
“Applicazione della microestrazione in fase solida all’analisi di matrici alimentari”.  
Oral Communication

**239** Convegno Regionale della Società Chimica Italiana. Sezione Sicilia, Messina, Italia, 2-3 Dicembre 2004.  
Tiina Kumm, Paola Dugo, Luigi Mondello e Giovanni Dugo.  
“Determinazione della frazione triaglicerolica del latte d’asina mediante HPLC-APCI-MS”.  
Oral Communication

**240** Enantiosep ’05. Corso-Convegno su Enantioseparazione Analitica e Preparativa, Ferrara, Italia, 21-23 Marzo, 2005.  
L. Mondello.  
“La gascromatografia multidimensionale (GC-GC) per l’analisi di composti chinali di oli essenziali”.  
Invited Oral Communication

**241** Enantiosep ’05. Corso-Convegno su Enantioseparazione Analitica e Preparativa, Ferrara, Italia, 21-23 Marzo, 2005.  
P.Q. Tranchida, A. Casilli, M. Lo Presti, M.L. Crupi, R. Costa, D. Sciarrone, B. d’Acampora Zellner, P. Dugo, G. Dugo e L. Mondello.  
“Un approccio innovativo per l’analisi gascromatografica multidimensionale di enantiomeri in oli essenziali”.  
Poster Communication

**242** Enantiosep ’05. Corso-Convegno su Enantioseparazione Analitica e Preparativa, Ferrara, Italia, 21-23 Marzo, 2005.  
A. Casilli, M. Lo Presti, M.L. Crupi, P.Q. Tranchida, D. Sciarrone, R. Costa, B. d’Acampora Zellner, P. Dugo, G. Dugo e L. Mondello.  
“Analisi di componenti chirali in matrici complesse mediante Fast MDGC”.  
Poster Communication

**243** Enantiosep ’05. Corso-Convegno su Enantioseparazione Analitica e Preparativa, Ferrara, Italia, 21-23 Marzo, 2005.  
M.L. Crupi, A. Casilli, P.Q. Tranchida, M. Lo Presti, D. Sciarrone, R. Costa, B. d’Acampora Zellner, P. Dugo, G. Dugo e L. Mondello.  
“Valutazione di eventuali frodi in oli essenziali tramite analisi GC chirale”.  
Poster Communication

**244** Enantiosep ’05. Corso-Convegno su Enantioseparazione Analitica e Preparativa, Ferrara, Italia, 21-23 Marzo, 2005.  
M. Lo Presti, M.L. Crupi, A. Casilli, P.Q. Tranchida, R. Costa, D. Sciarrone, B. d’Acampora Zellner, P. Dugo, G. Dugo e L. Mondello.  
“Comparazione dei rapporti enantiomerici di composti degli oli essenziali ottenuti con differenti metodiche di isolamento”.  
Poster Communication

**245** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 7 Avril, 2005.  
Luigi Mondello, Alessandro Casilli, Peter Quinto Tranchida, Masanao Furukawa, Kyochi Komori and Kozo Miseki.

“Multidimensional Gas Chromatography for the Analysis of Chiral Compound”.  
Invited Oral Communication

**246** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 7 Avril, 2005.

Luigi Mondello and Paola Dugo.

“LCxLC for the Analysis of Non Volatile Components in Essential Oils”.

Invited Oral Communication

**247** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 7 Avril, 2005.

Barbara d’Acampora Zellner, Luigi Mondello and Wil van Egmond.

“New Preparative GC for the Analysis of Flavours and Fragrances Products”.

Invited Oral Communication

**248** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 7 Avril, 2005.

Barbara d’Acampora Zellner, Luigi Mondello and Wil van Egmond.

“Olfactometric Perception by GC-O of Chiral Compounds”.

Oral Communication

**249** Nouveaux développements pour l’analyse des arômes et parfums, Grasse, France, 7 Avril, 2005.

H.U. Baier and L. Mondello.

“GCMSsolution: le premier logiciel GCMS avec le calcul des LRI (Linear Retention Index) intégré et recherche automatique multicritères dans une nouvelle bibliothèque MS”.

Oral Communication

**250** Com-Chrom Meeting, Amsterdam, April 21, 2005.

Luigi Mondello and Paola Dugo.

“Comprehensive LCxLC using Microbore Silver-ion and Monolithic Columns for the Characterization of Lipids”.

Oral Communication

**251** Com-Chrom Meeting, Amsterdam, April 21, 2005.

Alessandro Casilli, Paolo Leinardi, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo and Luigi Mondello.

“An Innovative Software for the Visualization of Comprehensive Chromatographic Data”.

Oral Communication

**252** Com-Chrom Meeting, Amsterdam, April 21, 2005.

Peter Quinto Tranchida, Alessandro Casilli, Paola Dugo, Giovanni Dugo and Luigi Mondello.

“GCxGC and GCxGC-qMS for Complex Sample Analysis”.

Poster Communication

**253** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.

L. Mondello.

“Innovative Chromatographic Techniques for the Study of Essential Oils”.

Oral Plenary Communication

- 254** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.  
A. Casilli, P. Q. Tranchida, M. Furukawa, K. Komori, K. Miseki, P. Dugo, G. Dugo and L. Mondello.  
“An Innovative Multidimensional Gas Chromatographic System (MDGC) for Essential Oil Analysis”.  
Oral Communication
- 255** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.  
P. Q. Tranchida, A. Casilli, R. Costa, M. L. Crupi, P. Dugo, G. Dugo and L. Mondello.  
“Micro-bore Column High Speed Gas Chromatography for the Analysis of Essential Oil Volatiles”.  
Oral Communication
- 256** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.  
M. Lo Presti, M. L. Crupi, M. R. Valentino, P. Dugo, S. Ragusa, F. Visinoni and L. Mondello.  
“An Evaluation of Different Methods for the Isolation of Essential Oils”.  
Oral Communication
- 257** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.  
R. Costa, A. Casilli, P.Q. Tranchida, M. Lo Presti, P. Dugo, G. Scala, K. Taneda, J. Iida, K. Miseki and L. Mondello.  
“Reliable GC-MS peak assignment by means of a novel Mass Spectra library with an «LRI filter» option”.  
Poster Communication
- 258** 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials (MICEOFF4). Kangar, Perlis, May 8-11, 2005.  
B. d’Acampora Zellner, D. Sciarrone, M. L. Crupi, P. Dugo, G. Dugo and L. Mondello.  
“Enantioselective Capillary Gas Chromatography - Olfactometry Analysis of Essential Oils”.  
Poster Communication
- 259** 28<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 22-25, 2005.  
Luigi Mondello.  
“Comprehensive LCxLC using Silver-ion and Monolithic Columns for the Characterization of Oils and Lipids”.  
Invited Oral Communication
- 260** 28<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 22-25, 2005.  
Luigi Mondello, Rosaria Costa, Alessandro Casilli, Peter Quinto Tranchida, Maria Lo Presti, Paola Dugo, Giovanni Scala, Katsuyuki Taneda, Junko Iida and Kozo Miseki.  
“Reliable GC-MS peak assignment by using a LRI-filtered mass spectra searching software”.  
Poster Communication
- 261** 28<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 22-25, 2005.

L. Mondello, A. Casilli, P.Q. Tranchida, M. Lo Presti, P. Dugo, M. Furukawa, K. Komori and K. Miseki.

“An innovative multidimensional gas chromatographic system”.

Oral Communication

**262** 28th International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 22-25, 2005.

Maria Lo Presti, Maria Lucia Crupi, Rosaria Costa, Paola Dugo, Salvatore Ragusa, Franco Visinoni and Luigi Mondello.

“An evaluation of different methods for the isolation of essential oils”.

Poster Communication

**263** 28th International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 22-25, 2005.

Luigi Mondello, Peter Quinto Tranchida, Alessandro Casilli, Maria Lo Presti, Paola Dugo, and Giovanni Dugo.

“An automated, low-costing, very fast method for the analysis of fatty acids in human plasma”.

Poster Communication

**264** EAAP 2005. Annual meeting of the European Association for Animal Production, Uppsala, Sweden, June 5-8, 2005.

B. Chiofalo, P. Dugo, E. Salimei, L. Mondello, V. Chiofalo.

“Characterisation of triacylglycerols in donkey milk using HPLC/MS”.

Poster Communication

**265** 11th International Symposium on Separation Science, Pardubice, Czech Republic, September 12-14, 2005.

Mondello L., Dugo P.

“Comprehensive Chromatography. Different solutions for volatile and non-volatile components (GCxGC, LCxLC)”.

Invited Oral Communication

**266** 11th International Symposium on Separation Science, Pardubice, Czech Republic, September 12-14, 2005.

Tranchida P.Q., Casilli A., Dugo P., Dugo G., Mondello L.

“Automated Fast Solid Phase Microextraction-gas Chromatography with Analyte Cryo-focussing for the Headspace Analysis of Complex Samples”.

Oral Communication

**267** 11th International Symposium on Separation Science, Pardubice, Czech Republic, September 12-14, 2005.

Casilli A., Tranchida P.Q., Furukawa M., Komori K., Miseki K., Dugo P., Dugo G., Mondello L.

“Multidimensional Gas Chromatography (MDGC) for Complex Samples Analysis”.

Oral Communication

**268** 11<sup>th</sup> International Symposium on Separation Science, Pardubice, Czech Republic, September 12-14, 2005.

Kumm T., Dugo P., Cotroneo A., Dugo G., Mondello L.

“Analysis of Triacylglycerols in Complex Natural Matrices by using Multidimensional HPLC”.

Oral Communication

**269** 11th International Symposium on Separation Science, Pardubice, Czech Republic, September 12-14, 2005.

Cacciola F., Jandera P., Blahova E., Mondello L.

“Characterization of Silica and Zirconia-based Columns as Potential Stationary Phases for the Separation of Antioxidants”.

Poster Communication

**270** 36th International Symposium on Essential Oils, Budapest, Hungary, September 4-7, 2005.

L. Mondello, P. Dugo and G. Dugo.

“New chromatographic methods for the analysis of essential oils”.

Oral Communication

**271** 36th International Symposium on Essential Oils, Budapest, Hungary, September 4-7, 2005.

P. Tranchida, A. Casilli, M. Lo Presti, P. Dugo, G. Dugo and L. Mondello.

“Automated fast Solid Phase Microextraction-Gas Chromatography with analyte cryo-focussing for the headspace analysis of complex essential oils”.

Poster Communication

**272** 36th International Symposium on Essential Oils, Budapest, Hungary, September 4-7, 2005.

M. Lo Presti, P. Wynne, D. Sciarrone, P. Tranchida, A. Casilli, P. Dugo, G. Dugo and L. Mondello.

“Benefits of a Sol-Gel wax stationary phase in comparison to conventional stationary phases in the Gas Chromatographic analysis of essential oils”.

Poster Communication

**273** 36th International Symposium on Essential Oils, Budapest, Hungary, September 4-7, 2005.

A. Casilli, P. Tranchida, M. Lo Presti, P. Dugo, G. Dugo, M. Furukawa, K. Komori, K. Miseki and L. Mondello.

“Fast multidimensional Gas Chromatography – an innovative approach for chiral separations”.

Poster Communication

**274** Jaima Show 2005, Makuhari Messe, Japan, August 31-September 2, 2005.

Luigi Mondello, Alessandro Casilli, Peter Quinto Tranchida, Masanao Furukawa, Kyochi Komori, Kozo Miseki.

“New Multi Dimensional GC system - Higher resolving capability system -”.

Oral Communication

**275** Università di Messina, Facoltà di Farmacia, Dipartimento Farmaco-Chimico, La Microestrazione in fase solida (SPME). 10 Anni d’Innovazioni nel preparare i campioni d’interesse analitico, Messina, Italia, 23 Settembre 2005.

P.Q. Tranchida, L. Mondello.

“Analisi Fast-GC mediante SPME con trappola criogenica.”

Oral Communication

**276** Università di Messina, Facoltà di Farmacia, Dipartimento Farmaco-Chimico, La Microestrazione in fase solida (SPME). 10 Anni d’Innovazioni nel preparare i campioni d’interesse analitico, Messina, Italia, 23 Settembre 2005.

R. Costa, M.L. Crupi, L. Mondello.  
“Analisi SPME della frazione volatile di bevande alcoliche.”  
Oral Communication

**277** XIV Congreso Italo-Latinoamericano de Etnomedicina “Gonzalo Aguirre Beltrán”, Mexico City, D.F., Mexico, 25-30 de Septiembre 2005.  
Mondello Luigi, Costa Rosaria, Dugo Paola, Casilli Vincenzo.  
“FFNSC (Flavour and Fragrance Natural and Synthetic Compounds): Una libreria di massa innovativa applicata all’indagine di olii essenziali”.  
Oral Communication

**278** XIV Congreso Italo-Latinoamericano de Etnomedicina “Gonzalo Aguirre Beltrán”, Mexico City, D.F., Mexico, 25-30 de Septiembre, 2005.  
Barbara d’Acampora Zellner, Rosaria Costa, Paola Dugo, Giovanni Dugo e Luigi Mondello.  
“Análise e caracterização de voláteis de impacto no aroma de óleos essenciais através de olfatometria e o isolamento destes por CG-preparativa”.  
Poster Communication

**279** Rich-Mac 2005. Tecnologie strumentali e loro applicazioni analitiche e biotecnologiche – Tecniche separative. Milano, Italia, 5 Ottobre 2005.  
Luigi Mondello, Peter Quinto Tranchida, Giovanni Dugo, Paola Dugo.  
“Tecnologie cromatografiche innovative per lo studio di matrici naturali complesse”.  
Invited Oral Communication

**280** 2do Taller Internacional de Autenticación de Bebidas Alcohólicas (TIABA 2005).  
Guadalajara, Jalisco, México, 11 al 13 de Octubre de 2005.  
Luigi Mondello  
“Physical-chemical parameters and aroma composition of the Italian ‘limoncello’ liqueur”.  
Invited Oral Communication

**281** III Simpósio Brasileiro de Óleos Essenciais. Campinas, Brasil, 8-10 de novembro de 2005.  
Luigi Mondello  
“Advanced analytical techniques for the analysis of essential oil and perfumes (LRI-GC/MS, GCxGC and GCxGC/MS)”.  
Invited Oral Communication

**282** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello  
“Comprehensive Chromatography for the Analysis of Complex Mixtures (GCxGC, GCxGC-MS and LCxLC)”.  
Invited Oral Communication

**283** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello, Alessandro Casilli  
“Fast GC with 50 and 100 mm ID columns – Theory and Applications”.  
Invited Oral Communication

**284** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.



Luigi Mondello, Tranchida Peter Quinto  
“Rapid automated sample preparation in combination with micro-bore column fast GC separation”.  
Invited Oral Communication

**285** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello, Alessandro Casilli  
“Innovative MDGC System and its Applications”.  
Invited Oral Communication

**286** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello  
“FFNSC (Flavour and Fragrance Natural and Synthetic Compounds): a novel GC/MS library”.  
Invited Oral Communication

**287** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello, Lo Presti Maria  
“The Extraction of Essential Oils: evaluation and comparison of different methods”.  
Invited Oral Communication

**288** Workshop at the Universidade Federal do Rio de Janeiro – UFRJ. Rio de Janeiro, Brasil, 10-11 de novembro de 2005.  
Luigi Mondello, Barbara d’Acampora Zellner  
“CG-Preparativa e CG-O Enantioselectiva na Análise de Materiais Flavorizantes e Fragrantes”.  
Invited Oral Communication

**289** 11as Jornadas de Análisis Instrumental. Barcelona, Spagna. 15-17 Noviembre 2005.  
Luigi Mondello  
“New Comprehensive Chromatography Multidimensional Techniques for the Analysis of Real Samples (GCxGC, LCxLC and LCxGC)”.  
Invited Oral Communication

**290** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006.  
Luigi Mondello.  
“New Comprehensive Chromatography Approaches for the Analysis of Real Samples (GCxGC, LCxLC and LCxGC)”.  
Invited Oral Communication

**291** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006.  
Luigi Mondello.  
“Comprehensive chromatography coupled to Mass Spectrometry with the use of Linear retention Indices for reliable identification of unknown components”.  
Product Seminar

**292** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006.

Luigi Mondello and Paola Dugo.  
“Principles of Comprehensive GC and LC”.  
Short Courses

**293** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006. Alessandro Casilli and Luigi Mondello.  
“Heart-Cutting MDGC Chiral Analysis of Essentials Oils”.  
Short Courses

**294** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006. P.Q. Tranchida and L. Mondello.  
“Micro-bore columns fast GC and GC-MS: instrumental requirements, theory, practical aspects and combination with rapid sample preparation methods”.  
Short Courses

**295** Ninth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, York, United Kingdom, February 8th-10th, 2006. P.Q. Tranchida, P. Dugo and L. Mondello.  
“Micro HPLC-ESI-MS analysis of food antioxidants”.  
Short Courses

**296** PITTCON 2006, Orlando, Florida, USA, March 12-17, 2006.  
L. Mondello.  
“Advanced Chromatographic Techniques for the Analysis of Food”.  
Invited Oral Communication

**297** Second European Equine Health & Nutrition Congress, 17-18 march 2006  
B. Chiofalo, E. Salimei, P. Dugo, T. Kumm, D. Piccolo, L. Mondello.  
“Evaluation on triglycerides in donkey milk during lactation”  
Oral Communication

**298** Convegno vini - Il Vino tra scienza, economia e cultura: *il caso Calabria*, Nocera Torinese, Catanzaro, Italia, 30 Marzo-2 Aprile 2006.  
Paola Dugo, Luigi Mondello, Maria Lo Presti e Giovanni Dugo.  
“Dosaggio di antociani nei vini”.  
Invited Oral Communication

**299** 4ème Séminaire de Grasse, Grasse, France, 6 Avril 2006.  
Luigi Mondello, Paola Dugo, Alessandro Casilli, Rosaria Costa, Barbara D’Acampora, Paola Donato, Maria Lo Presti, Peter Quinto Tranchida.  
“Innovative Analytical Approaches applied to Flavor and Fragrance Material”.  
Invited Oral Communication

**300** 4ème Séminaire de Grasse, Grasse, France, 6 Avril 2006.  
Luigi Mondello, Paola Dugo, Alessandro Casilli, Rosaria Costa, Barbara D’Acampora, Paola Donato, Maria Lo Presti, Peter Quinto Tranchida.  
“Reliable Identifications by using a New Interactively GC/MS Library with the Use of LRIs. A Case Study from Prep-GC, GC-O to the Identification”.  
Invited Oral Communication

- 301** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
P. Dugo, G. Dugo and L. Mondello.  
“Enhanced Analytical Potential of Three-Dimensional Comprehensive Liquid Chromatography-Mass Spectrometry for the Unravelling of Complex Triglyceride Profiles”.  
Invited Oral Communication
- 302** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
P. Jandera, K. Novotna, J. Fischer, P. Cesla, E. Blahova, F. Cacciola and L. Mondello.  
“Programmed Elution Techniques in Conventional and Micro-Hplc”.  
Invited Oral Communication
- 303** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
L. Mondello, P. Dugo and G. Dugo.  
“Evaluation of Micro-Bore Column Very Fast Gas Chromatography as a Tool for High Sample Throughput of Scientifically Important Real-World Samples”.  
Invited Oral Communication
- 304** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
A. Casilli, P.Q. Tranchida, P. Dugo, G. Dugo and L. Mondello.  
“Innovative Multidimensional Gas Chromatography for the Analysis of Complex Samples”.  
Oral Communication
- 305** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
B. D'Acampora Zellner, A. Casilli, P. Dugo, G. Dugo and L. Mondello.  
“Comprehensive Two-Dimensional GC-Olfactometry an Innovative Technique for Flavour and Fragrance Material Analysis”.  
Oral Communication
- 306** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
P.Q. Tranchida, A. Casilli, M. Mondello, P. Dugo, G. Dugo and L. Mondello.  
“Determination of Fatty Acid Profiles in Human Plasma by Means of Comprehensive Two-Dimensional Gas Chromatographic Chemical Class Patterns”.  
Oral Communication
- 307** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
R. Costa, M.R. De Fina, M.R. Valentino, P. Dugo, G. Dugo and L. Mondello.  
“Development of a New GC-MS Library Dedicated to Flavour and Fragrance Compounds Provided with an LRI Filter Tool”.  
Poster Communication
- 308** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-June 2, 2006.  
M.L. Crupi, R. Costa, P. Dugo, G. Dugo and L. Mondello.

“Physical-Chemical Parameters and Aroma Composition of the Italian ‘Limoncello’ Liqueur”.  
Poster Communication

**309** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-  
June 2, 2006.

Y. Foudil-Cherif, B.Y. Meklati, L. Mondello, G. Zappia and G. Dugo.

“Enantiomeric Composition of Five Chiral Monoterpenes in Nine Algerian Eucalyptus  
Essential Oils by Direct Multidimensional Chromatography”.

Poster Communication

**310** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-  
June 2, 2006.

T. Kumm, P. Dugo, G. Dugo and L. Mondello.

“Separation of Triacylglycerols in Natural Matrixes by Using Comprehensive HPLC-APCI-  
MS”.

Poster Communication

**311** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-  
June 2, 2006.

R. Lopez, A. Casilli, P.Q. Tranchida and L. Mondello.

“Quantitative Analysis of Allergenes in Perfumes with a Multidimensional Gas  
Chromatographic System”.

Poster Communication

**312** 3rd GCxGC Symposium, Riva del Garda, Italy, May 28, 2006.

L. Mondello.

“Present State-of-the-Art in Comprehensive GCxGC. Instrumentations and Applications.”

Short Courses

**313** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-  
June 2, 2006.

L. Mondello.

Discussion

**314** 29th International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 29-  
June 2, 2006.

L. Mondello.

“Innovative Multidimensional and Comprehensive Chromatography Techniques for the  
Analysis of Complex Mixtures”.

Shimadzu Seminar

**315** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México,  
Junio 26-30, 2006.

L. Mondello, P. Dugo and G. Dugo.

“New Frontier in Chromatography Separation. Comprehensive Chromatography,  
Multidimensional Chromatography and Reliable identifications by Mass Spectrometry to  
resolve and identify complex samples”.

Oral Plenary Communication

**316** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México,  
Junio 26-30, 2006.

M.L. Crupi, K. Buonasera, P. Dugo, G. Dugo and L. Mondello.  
“Use of Superheated Water as Chromatographic Eluent for Liquid Chromatography”.  
Poster Communication

**317** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

P.Q. Tranchida, A. Casilli, G. Dugo, P. Dugo and L. Mondello.  
“Very Fast Gas Chromatographic Analysis of Real World Samples by Using Short Micro-bore Column Segments”.  
Poster Communication

**318** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

R. Costa, M.R. De Fina, M.R. Valentino, P. Donato, D. Sciarrone, M. Lo Presti, P. Dugo and L. Mondello.  
“FFNSC GC-MS Library: an Innovative Tool in the Analysis of Flavour & Fragrance Material”.  
Poster Communication

**319** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

M. Lo Presti, A. Casilli, G. Dugo, P. Dugo and L. Mondello.  
“An Analytical Improvement in the Chiral Research Applied to the Essential Oils”.  
Poster Communication

**320** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

A. Casilli, P.Q. Tranchida, G. Dugo, P. Dugo and L. Mondello.  
“Multidimensional Gas Chromatography for the Determination of Allergens in Fragrances”.  
Poster Communication

**321** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

T. Kumm, V. Skerikova, P. Jandera, P. Dugo and L. Mondello.  
“Elucidation of Carotenoid Pattern in Citrus Essential Oils by Comprehensive NPxRP HPLC: Introduction of a Completely Automated LCxLC System”.  
Poster Communication

**322** XI Congreso Latinoamericano de Cromatografía y Ciencias Afines, Mérida, Yucatán, México, Junio 26-30, 2006.

B. d'Acampora Zellner, A. Casilli, P.Q. Tranchida, P. Dugo, G. Dugo and L. Mondello.  
“Characterization of the Olfactive Profile of Essential Oils by Means of Comprehensive Two-dimensional Gas Chromatography-Olfactometry”.  
Poster Communication

**323** SISSG - Oli e Grassi Alimentari: Innovazioni Tecnologiche e Ricerca Chimica, Bologna, Italia, 30 giugno 2006.

P. Dugo and L. Mondello.  
“Cromatografia Liquida Multidimensionale (LCxLC/MS) per l'Analisi di Trigliceridi in Matrici Alimentari”.  
Invited Oral Communication

- 324** FITOMED2006 - II Congresso Intersocietà sulle Piante Medicinali, Taormina, Messina, Italia, 6-8 Luglio 2006.  
L. Mondello, A. Casilli, P. Dugo and G. Dugo.  
“Analisi di componenti chirali in matrici complesse mediante Fast MDGC”.  
Oral Communication
- 325** ISSFAL 2006 – International Society for the Study of Fatty Acids & Lipids, Cairns Convention and Exhibition Centre, Cairns, North Queensland, Australia, 23-28 July 2006.  
P.Q. Tranchida, A. Casilli, D. Sciarrone, P. Dugo, L. Mondello.  
Innovative Multidimensional Gas Chromatography Systems applied to the Analysis of Complex Fats and Oils.  
Oral Communication
- 326** ISSFAL 2006 – International Society for the Study of Fatty Acids & Lipids, Cairns Convention and Exhibition Centre, Cairns, North Queensland, Australia, 23-28 July 2006.  
T. Kumm, P.Q. Tranchida, V. Skerikova, P. Dugo, L. Mondello.  
Determination of Cholesterol Ester and Triacylglycerol Profiles in Human Plasma by using Comprehensive Two-dimensional HPLC-APCI-MS.  
Oral Communication
- 327** Australian Centre for Research on Separation Science School of Chemistry, University of Tasmania, Hobart, Australia, August 8, 2006.  
Luigi Mondello and Paola Dugo.  
New Frontier in Chromatography Separation. Comprehensive Chromatography, Multidimensional Chromatography, and Fast Gas Chromatography  
Invited Oral Communication
- 328** ISC 06 – 26th International Symposium on Chromatography, School of Architecture, Copenhagen, Denmark, 21-25 July, 2006.  
Francesco Cacciola, Pavel Jandera, Eva Blahova and Luigi Mondello.  
“Comprehensive Two Dimensional Systems for the separation of phenolic antioxidants”  
Poster Communication
- 329** ISC 06 – 26th International Symposium on Chromatography, School of Architecture, Copenhagen, Denmark, 21-25 July, 2006.  
Tiina Kumm, Paola Dugo, Luigi Mondello  
“Comprehensive HPLC Analyses of Complex Samples by using a completely automated LCxLC System”  
Poster Communication
- 330** ISC 06 – 26th International Symposium on Chromatography, School of Architecture, Copenhagen, Denmark, 21-25 July, 2006.  
Veronika Skerikova, Luigi Mondello, Pavel Jandera.  
“Analysis of Carotenoids in Natural Samples by Comprehensive NPxNP HPLC”  
Poster Communication
- 331** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.  
B. d’Acampora Zellner, A. Casilli, P.Q. Tranchida, P. Dugo, G. Dugo, and L. Mondello.

“Comprehensive two-dimensional gas chromatography-olfactometry: an approach for odour fingerprint acquisition of fragrant complex matrices”

Poster Communication

**332** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

M. Lo Presti, R. Costa, M. R. Valentino, M. R. De Fina, S. Ragusa, P. Dugo, G. Dugo, and L. Mondello.

“Gas chromatographic elucidation of the volatile fraction of *Teucrium flavum*, a Sicilian endemic plant”

Poster Communication

**333** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

P.Q. Tranchida, R. Costa, M. L. Crupi, P. Dugo, G. Dugo, and L. Mondello.

“Automated fast solid phase microextraction-gas chromatography with analyte cryo-focussing for the headspace analysis of essential oils”

Poster Communication

**334** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

M. L. Crupi, M. Lo Presti, B. d’Acampora Zellner, A. Pappalardo, L. Pappalardo, P. Dugo, G. Dugo, and L. Mondello.

“Determination of the quality of Italian bitter orange essential oils”

Poster Communication

**335** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

M. L. Crupi, M. Lo Presti, B. d’Acampora Zellner, A. Pappalardo, L. Pappalardo, P. Dugo, G. Dugo, and L. Mondello.

“Characterization of the volatile and non volatile fractions of genuine bergamot essential oils”

Poster Communication

**336** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

R. Costa, M.R. De Fina, M. R. Valentino, P. Donato, P. Dugo, G. Dugo, and L. Mondello.

“FFNSC (Flavour & Fragrance Natural & Synthetic Compounds) GC-MS library: how to bring innovation in GC-MS peak assignment”

Oral Communication

**337** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

L. Mondello

“Comprehensive Two-Dimensional Gas Chromatography for the Investigation of the Volatile Fraction of Complex Flavour and Fragrance Materials ”

Oral Communication

**338** ISEO 06 – 37<sup>th</sup> International Symposium on Essential oils, Grasse, France, September 10<sup>th</sup> – 13<sup>th</sup>, 2006.

A. Casilli, D. Sciarrone, P. Dugo, G. Dugo and L. Mondello

“Multidimensional gas chromatography for allergens determination in perfume formulation”

## Oral Communication

- 339** Seminario “Inovações Tecnológicas em Cromatografia a Gás”, São Paulo, Brasil, September 18, 2006.  
Luigi Mondello  
“New Frontier in Gas Chromatography: Multidimensional GC, GCxGC, Fast-GC and Reliable Identification Using Interactively LRI and MS Spectra”.  
Invited Oral Communication
- 340** Seminario “Inovações Tecnológicas em Cromatografia a Gás”, Rio de Janeiro, Brasil, September 20, 2006.  
Luigi Mondello  
“New Frontier in Gas Chromatography: Multidimensional GC, GCxGC, Fast-GC and Reliable Identification Using Interactively LRI and MS Spectra”.  
Invited Oral Communication
- 341** Segundo Simpósio Brasileiro de Cromatografia e Técnicas Relacionadas, São Pedro, São Paulo, Brasil, Outubro 17-20, 2006.  
Luigi Mondello  
“New Developments in Chromatography. From Fast Methods to Multidimensional and Comprehensive Techniques”.  
Invited Oral Plenary Communication
- 342** Short Course, Segundo Simpósio Brasileiro de Cromatografia e Técnicas Relacionadas, São Pedro, São Paulo, Brasil, Outubro 17-20, 2006.  
Luigi Mondello  
“Multidimensional GC: Column Switching and Comprehensive GC”.  
Invited Oral Communication
- 343** Short Course, Segundo Simpósio Brasileiro de Cromatografia e Técnicas Relacionadas, São Pedro, São Paulo, Brasil, Outubro 17-20, 2006.  
Luigi Mondello  
“Fast GC & Fast GC/MS”.  
Invited Oral Communication
- 344** Short Course, Segundo Simpósio Brasileiro de Cromatografia e Técnicas Relacionadas, São Pedro, São Paulo, Brasil, Outubro 17-20, 2006.  
Luigi Mondello  
“Comprehensive LC & Comprehensive LC-MS”.  
Invited Oral Communication
- 345** Workshop “Avanços Recentes e Tendências Futuras em Técnicas de Separação”, Segundo Simpósio Brasileiro de Cromatografia e Técnicas Relacionadas, São Pedro, São Paulo, Brasil, Outubro 17-20, 2006.  
Luigi Mondello  
“Comprehensive and Multidimensional Techniques”.  
Invited Oral Communication
- 346** IV Congresso Nazionale di Chimica degli Alimenti, Alba, 7-10 Novembre 2006.  
Paola Dugo, Luigi Mondello, Tiina Kumm, Giovanni Dugo  
“Cromatografia líquida multidimensional (LCxLC) per l’analisi di matrici alimentari”.



Invited Oral Communication

**347** IV Congresso Nazionale di Chimica degli Alimenti, Alba, 7-10 Novembre 2006.

Giovanni Dugo, Luigi Mondello

“Approcci innovativi alle separazioni gascromatografiche di miscele complesse di interesse alimentare”.

Invited Oral Communication

**348** IV Congresso Nazionale di Chimica degli Alimenti, Alba, 7-10 Novembre 2006.

Peter Q. Tranchida, Alessandro Casilli, Paola Dugo, Luigi Mondello, Giovanni Dugo

“Cromatografia gassosa multidimensionale (GCXGC): ottimizzazione dei flussi in entrambi le dimensioni ed applicazione su una matrice alimentare”.

Poster Communication

**349** IV Congresso Nazionale di Chimica degli Alimenti, Alba, 7-10 Novembre 2006.

Maria Cambria, Tiina Kumm, Agostino Giannino, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello

“Determinazione di trigliceridi in matrici alimentari tramite HPLC-APCI-MS e HRGC-FID”.

Poster Communication

**350** IV Congresso Nazionale di Chimica degli Alimenti, Alba, 7-10 Novembre 2006.

Maria Lo Presti, Rosaria Costa, Maria R. Valentino, Maria R. De Fina, Paola Dugo, Luigi Mondello, Giovanni Dugo

“Determinazione gascromatografica della frazione volatile di Piper cubeba”

Poster Communication

**351** Seminario “La tecnica SPME ed applicazioni nel Food & Beverage, Catania, 23 Novembre 2006.

Maria L. Crupi, Rosaria Costa, Luigi Mondello

“Analisi SPME-GC/FID e SPME-GC/MS di Matrici Alimentari”

Invited Oral Communication

**352** 4<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment.

Almeria, Spain, November 23-26, 2006

Luigi Mondello, Alessandro Casilli, Ennio Bellotti, Rino Calori, Roberto Ferrari.

“Innovative multidimensional and comprehensive chromatography techniques for the analysis of complex mixtures”

Invited Oral Communication

**353** 4<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment.

Almeria, Spain, November 23-26, 2006

Alessandro Casilli, Ennio Bellotti, Rino Calori, Roberto Ferrari, Luigi Mondello.

Reliable Identification of Pesticides by Quadruple Mass Spectrometry and Linear Indices.

Poster Communication

**354** Shimadzu Corporation, Tokyo, Japan, December 12, 2006.

Luigi Mondello.

“The new frontier of gas chromatography”

Invited Oral Communication

**355** Shimadzu Sanjo works, Kyoto, Japan, December 13, 2006.

L. Mondello, A. Casilli.  
“Multidimensional gas chromatograph system (MDGC)”  
Invited Oral Communication

**356** Shimadzu Sanjo works, Kyoto, Japan, December 13, 2006.

L. Mondello, A. Casilli.  
“Comprehensive gas chromatography (GCxGC)”  
Invited Oral Communication

**357** Shimadzu Corporation, Osaka, Japan, December 14, 2006.

Luigi Mondello.  
“The new frontier of gas chromatography”  
Invited Oral Communication

**358** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, R. Costa, M.R. De Fina, M.R. Valentino.  
“FFNSC (Flavour and fragrance natural and synthetic compounds) GC-MS library”.  
Invited Oral Communication.

**359** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, B. d’Acampora Zellner, D. Sciarrone.  
“Development of an enantio MS library equipped with interactive use of linear retention indices and odour descriptors for reliable identification of enantiomers present in complex mixtures”.  
Invited Oral Communication.

**360** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, A. Casilli, M. Lo Presti.  
“Creation of an MS library equipped with interactive use of linear retention indices dedicated to pesticides identification”.  
Invited Oral Communication.

**361** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, B. d’Acampora Zellner.  
“Shimadzu GCMS solution and HP chemstation – strategies for unknown spectra matching”  
Invited Oral Communication.

**362** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, P. Dugo, T. Kumm.  
“Development and application of a comprehensive HPLC system for the analysis of natural matrices”.  
Invited Oral Communication.

**363** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, D. Sciarrone, A. Casilli.  
“LCxGC instrument development”.  
Invited Oral Communication.

**364** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, P. Donato.

“Coupling Shimadzu GC-2010 to IRPrestige-21. Developing of a new GC-FTIR interface for the construction of reliable libraries”.

Invited Oral Communication.

**365** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, P. Dugo, K. Buonasera, F. Cacciola, M.L. Crupi, P. Leinardi.

“Use of superheated water as chromatographic eluent for liquid chromatography”.

Invited Oral Communication.

**366** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, A. Casilli, B. d'Acampora Zellner.

“Automated preparative gas chromatography for the analysis of flavour and fragrance materials”.

Invited Oral Communication.

**367** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, B. d'Acampora, P. Leinardi, A. Casilli.

“Development of a sniffing port device retrofitted to the Shimadzu GC-2010”.

Invited Oral Communication.

**368** Shimadzu Sanjo works, Kyoto, Japan, December 15, 2006.

L. Mondello, A. Casilli, B. d'Acampora Zellner.

“Development of a two-dimensional comprehensive gas-chromatography-olfactometry system for the investigation of flavour and fragrance materials”.

Invited Oral Communication.

**369** Discussion group: Mass Spectrometry in Food Chemistry, Palermo

25-27 Marzo 2007

Paola Dugo, Luigi Mondello e Giovanni Dugo.

“Cromatografia multidimensionale accoppiata alla spettrometria di massa: applicazioni ai cibi alimentari”

Oral Communication

**370** Shimadzu seminar, Grasse, March 29<sup>th</sup>, 2007.

Luigi Mondello.

“Comprehensive GCXGC/MS for the analysis of flavour & fragrance material”

Invited Oral Communication

**371** Shimadzu seminar, Grasse, March 29<sup>th</sup>, 2007.

Luigi Mondello.

“Comprehensive LCXLC/MS for the analysis of carotenoids in essential oils and juices”

Invited Oral Communication

**372** Enantiosepar '07, Ferrara, 2-4 Aprile, 2007.

Luigi Mondello.

“Innovative Gas Chromatographic Approach for the Analysis of Chiral Compounds”.

Invited Oral Communication.

**373** Enantiosepar '07, Ferrara, 2-4 Aprile, 2007.

B. d'Acampora Zellner, A. Casilli, M.L. Crupi, P. Dugo, G. Dugo and L. Mondello.

“Assessment and Enantiomeric Differentiation of Chiral Compounds by means of GC-Enantio/O and GC-Enantio/MS/O”.

Oral Communication.

**374** Enantiosepp '07, Ferrara, 2-4 Aprile, 2007.

M.L. Crupi, B. d'Acampora Zellner, P. Dugo, G. Dugo, L. Mondello.

“Determination of the Enantiomeric Distribution of Chiral Compounds in Citrus Oils by means of GC-Enantio/MS”.

Poster Communication

**375** Incontro: L'olio d'oliva e il vino: pilastri della dieta Mediterranea, Marsala, 18-19 Aprile 2007.

Paola Dugo, Peter Q. Tranchida, Tiina Kumm, Luigi Mondello.

“Metodiche analitiche innovative per l'analisi degli oli vegetali”.

Invited Oral Communication.

**376** International Medicinal and Aromatic Plants Conference on Culinary herbs, Antalya (Turkey), April 29<sup>th</sup> – May 04<sup>th</sup>, 2007.

R. Costa, M.R. De Fina, M.R. Valentino, L. Mondello.

“Application of a new GC-MS library, designed with a retention index filter tool, to the analysis of the essential oil of *Cistus ladanifer*”.

Oral Communication.

**377** Sigma-Aldrich scientific seminar: “Nuovi sviluppi in HPLC: dalle colonne chirali alle colonne Fast”, Hotel Selene–Via Pontina Km 30 - 00040 Pomezia (RM), 10<sup>th</sup> Maggio 2007.

Paola Donato e Luigi Mondello.

“Sviluppi applicativi su nuove colonne pellicolari per cromatografia liquida”.

Invited lecture.

**378** 98<sup>th</sup> Annual Meeting and Expo, Québec City, Canada, 13-16 Maggio 2007

L. Mondello, P. Quinto Tranchida, P. Dugo, L. Sidisky.

“Comprehensive GCxGC for the analysis of fats and oils”

Oral Communication

**379** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.

4<sup>th</sup> GCxGC Symposium (June 4-5, 2007).

Mondello L., Tranchida P., Casilli A., Dugo P., Dugo G.

“Optimum gas linear velocities in both dimensions in comprehensive two-dimensional gas chromatography (GCxGC)”

Invited Oral Communication

**380** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.

16<sup>th</sup> National Symposium and Exhibition on Chromatography (June 4-6, 2007).

Dugo P., Kumm T., Giuffrida D., Herrero Calleja M., Dugo G., Mondello L.

“Comprehensive LC analysis of natural matrixes”.

Invited Oral Communication

**381** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.

16<sup>th</sup> National Symposium and Exhibition on Chromatography (June 4-6, 2007).  
Dugo P., Kumm T., Giuffrida D., Herrero Calleja M., Dugo G., Mondello L.  
“Comprehensive LC analysis of natural matrixes”.  
Poster Communication

**382** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.  
30<sup>th</sup> International Symposium on Capillary Chromatography (June 5-7, 2007)  
Tranchida P., Giannino A., Dugo P., Dugo G., Mondello L.  
“Evaluation of the use of a very short micro-bore column segment in very fast gas chromatography”  
Poster Communication

**383** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.  
30<sup>th</sup> International Symposium on Capillary Chromatography (June 5-7, 2007)  
Zellner D’Acampora B., Tranchida P., Crupi M.L., Dugo G., Mondello L.  
“Application of enantioselective gas chromatography-mass spectrometry-olfactometry for reliable enantiomer characterization in flavour and fragrance material analysis”  
Poster Communication

**384** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.  
30<sup>th</sup> International Symposium on Capillary Chromatography (June 5-7, 2007)  
Costa R., De Fina M.R., Valentino M.R., Dugo G., Mondello L.  
“Flavor and fragrance analysis – the use of Iri as a new tool for reliable GC-MS peak assignment”  
Poster Communication

**385** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.  
30<sup>th</sup> International Symposium on Capillary Chromatography (June 5-7, 2007)  
Casilli A., Sciarrone D., Dugo P., Furukawa M., Komori K., Miseki K., Dugo G., Mondello L.  
“An innovative and user-friendly multidimensional gas chromatography system for the analysis of multi-effluent bands in complex real-world samples”  
Poster Communication

**386** Dalian International Symposia and Exhibition on Chromatography (DISEC), Dalian, China, June 4-7, 2007.  
30<sup>th</sup> International Symposium on Capillary Chromatography (June 5-7, 2007)  
Sciarrone D., Casilli A., Dugo P., Dugo G., Mondello L.  
“High speed gas chromatography full scan quadrupole mass spectrometry for investigation of skin sensitizor profiles in perfumes”  
Poster Communication

**387** Future trends in Phytochemistry – A young scientists symposium, Gargnano (BS), June 6<sup>th</sup>-9<sup>th</sup>, 2007.  
R. Costa, M.R. De Fina, M.R. Valentino, P. Dugo, L. Mondello.  
“Application of a new GC-MS library, designed with a Retention Index filter tool, to the analysis of the essential oil of *Tarhonianthus camphoratus* L.”  
Oral Communication.

- 388** 33° Congresso Nazionale della Società Italiana di Farmacologia, Cagliari, 6-9 Giugno 2007.  
Iolanda Sacco, E. Palma, F. Sulco, C. Colica, V. Vilasi, S. Muscoli, S. Ragusa, L. Mondello,  
D. Rotiroti, F. Romeo, V. Mollace.  
The protective effect of bergamot oil non volatile fraction on lox-1 expression in balloon  
injury-related neointima formation.  
Poster Communication
- 389** Shimadzu Seminar, Shanghai, China, June 8, 2007.  
“Reliable Identification by using interactively LRI and mass spectra, multidimensional GC,  
GCxGC, fast-GC for the analysis of flavour and fragrance samples”  
Invited Oral Communication
- 390** Shimadzu Seminar in Guangzhou, China, June 11, 2007.  
“Reliable Identification by using interactively LRI and mass spectra, multidimensional GC,  
GCxGC, fast-GC for the analysis of flavour and fragrance samples”  
Invited Oral Communication
- 391** Ruolo e potenzialità della cromatografia liquida e gassosa e della spettrometria di massa  
nell'accertamento della qualità, tipicità e sicurezza degli alimenti. Giornata di Studio.  
Consiglio Nazionale delle Ricerche, Istituto di Metodologie Chimiche, Montelibretti (Roma),  
June 14<sup>th</sup>, 2007.  
A. Salvatore, L. Mondello.  
“Utilizzo di librerie GC-MS con indici di ritenzione per l'identificazione di composti di  
interesse alimentare”  
Oral Communication
- 392** Ruolo e potenzialità della cromatografia liquida e gassosa e della spettrometria di massa  
nell'accertamento della qualità, tipicità e sicurezza degli alimenti. Giornata di Studio.  
Consiglio Nazionale delle Ricerche, Istituto di Metodologie Chimiche, Montelibretti (Roma),  
June 14<sup>th</sup>, 2007.  
T. Kumm, P. Dugo, L. Mondello.  
“Cromatografia liquida multidimensionale per la determinazione di carotenoidi in matrici  
alimentari”.  
Oral Communication
- 393** Qualità e Salubrità degli alimenti. Il contributo della spettrometria di massa. Workshop.  
Università degli Studi della Calabria, Rende (CS), June 15<sup>th</sup>, 2007.  
T. Kumm, P. Dugo, L. Mondello.  
“Cromatografia liquida multidimensionale per la determinazione di carotenoidi in matrici  
alimentari”.  
Oral Communication
- 394** Qualità e Salubrità degli alimenti. Il contributo della spettrometria di massa. Workshop.  
Università degli Studi della Calabria, Rende (CS), June 15<sup>th</sup>, 2007.  
A. Salvatore, L. Mondello.  
“Utilizzo di librerie GC-MS con indici di ritenzione per l'identificazione di composti di  
interesse alimentare”  
Oral Communication

- 395** 31st International Symposium on High Performance Liquid Phase Separations and Related Technique, HPLC 2007. International Convention Centre, Ghent, Belgio, June 17-21, 2007  
P. Dugo, T. Kumm, F. Cacciola, L. Mondello  
“Comprehensive Two-dimensional Liquid Chromatography combined with photodiode array and mass spectrometric detection in the analysis of natural matrixes”  
Oral Communication
- 396** 13th International Symposium on Separation Sciences. High Tatras, Strbské Pleso, Slovak Republic, June 27-29,2007.  
Hans-Ulrich Baier, Margit Geissler, Luigi Mondello.  
“Comprehensive GC with quadrupole mass spectrometric detection”  
Oral Communication
- 397** Massa 2007 and Liquid Ions in Lucca 2007. Complesso ex Convento San Micheletto, Lucca, September 2-5, 2007.  
Peter Q. Tranchida, Paola Dugo, Tiina Kumm, Luigi Mondello.  
“Comprehensive Two-dimensional Liquid Chromatography Combined with Mass Spectrometric Detection in the Analysis of Natural Matrixes”  
Oral Communication
- 398** 38<sup>th</sup> International Symposium on Essential Oils,  
Graz, Austria, September 9-12, 2007.  
L. Mondello  
“Innovative Approaches for the Analysis of Essential Oils (Fast-GC, MDGC, GCxGC, LCxLC)”  
Oral Communication
- 399** 38<sup>th</sup> International Symposium on Essential Oils,  
Graz, Austria, September 9-12, 2007.  
d’Acampora Zellner B., Rubiolo P., Bicchi C., Dugo P., Dugo G., Mondello L.  
“Reliable identification of Enantiomers Domprised in Flavour and Fragrance Matrices by Means of GC-Enantio/MS/O”  
Poster Communication
- 400** 38<sup>th</sup> International Symposium on Essential Oils,  
Graz, Austria, September 9-12, 2007.  
Crupi M.L., d’Acampora Zellner B., Dugo P., Dugo G., Mondello L.  
“Revisited Enantioselective Investigation of Citrus Oils by Means of GC-Enantio/MS”  
Poster Communication
- 401** 38<sup>th</sup> International Symposium on Essential Oils,  
Graz, Austria, September 9-12, 2007.  
Costa R., De Fina M.R., Valentino M.R., Dugo G., Mondello L.  
“Comparison of the Chromatographic Fingerprints of Horseradish and Mustard Oils (Brassicaceae) with the Support of an Innovative GC-MS Database”  
Poster Communication
- 402** 38<sup>th</sup> International Symposium on Essential Oils,  
Graz, Austria, September 9-12, 2007.  
Costa R., Lo Presti M., Crupi M.L., d’Acampora Zellner B., Dugo P., Mondello L.  
“Volatile Constituents of Genepi Elixir and Artemisia umbelliformis Essential Oils”

Poster Communication

**403** 38<sup>th</sup> International Symposium on Essential Oils,

Graz, Austria, September 9-12, 2007.

Rubiolo P., Liberto E., Cagliero C., Sgorbini B., Bicchi C., d'Acampora Zellner B., Mondello L.

“Linear Retention Indices in Enantioselective GC coupled with Mass Spectrometry (ES-GC-MS) as a tool to identify Enantiomers in the Flavour and Fragrance Fields”

Poster Communication

**404** 38<sup>th</sup> International Symposium on Essential Oils,

Graz, Austria, September 9-12, 2007.

Sciarrone D., Casilli A., Dugo P., Dugo G., Mondello L.

“High Speed Gas Chromatography – Full Scan Mass Spectrometry for the Determination of Fragrance Allergens”

Poster Communication

**405** Euroanalysis XIV, Antwerp, Belgium, September 9-14, 2007.

R. Costa, M.R. De Fina, M.R. Valentino, M. Geißler, P. Dugo, L. Mondello.

“New tools in GC-MS analysis: interactive use of Retention Indices within a newly designed library dedicated to Flavor & Fragrance material”

Poster Communication

**406** 5<sup>th</sup> Euro fed lipid Congress and 24<sup>th</sup> Symposium of the Nordic Lipidforum, Oils, fats and Lipids: from Science to Applications, Innovations for a better World. Gothenburg, Sweden, 16-19 September 2007.

Paola Dugo, Peter Q. Tranchida, Tiina Kumm, Giovanni Dugo, Luigi Mondello

“Innovative Multidimensional Chromatographic Systems Applied to the Analysis of Fats and Oils”

Invited Oral Communication

**407** Advances in GC technology, Cheshire, England, September 27, 2007.

L. Mondello

“New multidimensional approaches (Comprehensive GCxGC and Multidimensional GC) for the analysis of complex samples”

Oral Communication.

**408** 6<sup>th</sup> International Symposium on the Mediterranean pig, Capo d'Orlando, Messina, October 11-13, 2007.

Chiofalo B., Costa R., Mondello L., Chiofalo V.

“Nero Siciliano pig for the production of “Nebrodi” cured sausage: effect of some traditional diets on sensorial characteristics” pp 69-69

Poster Communication

**409** I Workshop of the Spanish Society of Mass Spectrometry

VII Scientific Meeting of the Spanish Society of Chromatography and Related Techniques.

Granada, Spain, October 17-19, 2007

L. Mondello

“Comprehensive chromatography techniques (LCxLC, GCxGC) coupled to mass spectrometry for the separation of complex mixtures”.

ISBN 978-84-338-4615-0 (Editorial Universidad de Granada) pp89-89



Invited Oral Communication

**410** 31<sup>st</sup> International Symposium on Capillary Chromatography & Electrophoresis, Albuquerque, New Mexico, USA, November 28-30,2007

Luigi Mondello

“Comprehensive chromatography techniques (LCxLC AND GCxGC) coupled to mass spectrometry for the separation of natura matrices”.

Invited Oral Communication

**411** 31<sup>st</sup> International Symposium on Capillary Chromatography & Electrophoresis, Albuquerque, New Mexico, USA, November 28-30,2007

Luigi Mondello, Rosaria Costa, Maria Rosa De Fina, Maria Rita Valentino

“Increase the power of mass spectral search through the use of a GC-MS database provided with linear retention index information”

Poster Communication

**412** 31<sup>st</sup> International Symposium on Capillary Chromatography & Electrophoresis, Albuquerque, New Mexico, USA, November 28-30,2007

Luigi Mondello, Danilo Sciarrone, Maria Lo Presti, Paola Dugo, Giovanni Dugo.

“Multiple heart-cut multidimensional gas chromatography-mass spectrometry for the investigation of allergens in fragrances”

Poster Communication

**413** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Luigi Mondello, Paola Dugo and Giovanni Dugo

“Multidimensional and Comprehensive Chromatography (MDGC, GCxGC, LCxLC, LCxGC) for the Analysis of Complex Matrices”.

Invited Oral Plenary Communication

**414** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

H.-G. Janssen, P. Schoenmakers and L. Mondello.

“Comprehensive Two-Dimensional Liquid Chromatography: Instrumentation, Method Optimization and Applications”.

Invited Short Course

**415** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

L. Mondello.

“Comprehensive Techniques”.

Invited Tutorial

**416** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

L. Mondello, B. d'Acampora Zellner, P. Dugo and G. Dugo.

“Quality and Genuineness Assignment of Italian Citrus Essential Oils through Carbon Measurements of Target Components by means of Gas Chromatography/Combustion/Isotope Ratio Mass Spectrometry”.

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)

Poster Communication

**417** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Luigi Mondello, Peter Quinto Tranchida, Monica Mondello, Paola Dugo and Giovanni Dugo. “Improved Exploitation of Bidimensional Space by Means of Split-Flow Comprehensive Two-Dimensional Gas Chromatography”.

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)

Poster Communication

**418** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Luigi Mondello, Danilo Sciarrone, Paola Dugo and Giovanni Dugo.

“Analysis of essential oils by using comprehensive LC-GC system”

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)

Poster Communication

**419** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Luigi Mondello, Miguel Herrero, Tiina Kumm, Paola Dugo and Giovanni Dugo.

“Evaluation of Carotenoid Composition in Citrus Essential Oils by NPLC<sub>x</sub>RPLC Coupled to Photo Diode Array and Mass Spectrometric Detectors”.

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)

Poster Communication

**420** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Hans-Ulrich Baier, Luigi Mondello and Susanne Böhme

“The Determination of Allergens in Cosmetics using GC<sub>x</sub>qGCMS”

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)

Poster Communication

**421** Tenth International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers, Site Oud Sint-Jan, Bruges, Belgium, January 30<sup>th</sup> - February 1<sup>st</sup>, 2008.

Luigi Mondello, Paola Donato, Paola Dugo and Giovanni Dugo

“LCMS-IT-TOF in Proteome Research”

In “*Book of Abstracts*”, ISBN 9789081124829 (CIP Koninklijke Bibliotheek van België Brussels, Belgium)  
Poster Communication

**422** Workshop con il Patrocinio della Scuola Internazionale “Bernardino Telesio”. Autenticità dei Prodotti Agroalimentari. Il Pomodoro, Università della Calabria Aula Magna, Cosenza, 23 Aprile 2008.

Luigi Mondello e Paola Dugo

“Rilevazione antiossidanti naturali mediante LCxLC-MS”

Invited Oral Communication

**423** 32nd International Symposium and Exhibit on High Performance Liquid Phase Separations and Related Techniques , Baltimore, MD, USA, May 10-16, 2008.

Paola Dugo, Paola Donato, Giovanni Dugo and Luigi Mondello.

“Multidimensional Two-dimensional Liquid Chromatography in the Determination of Real Samples”.

Invited Oral Communication

**424** 32nd International Symposium and Exhibit on High Performance Liquid Phase Separations and Related Techniques , Baltimore, MD, USA, May 10-16, 2008.

Paola A. E. Donato; Francesco Cacciola; Marina Cambria; Paola Dugo; Luigi Mondello

“Evaluation of shell-packed stationary phases for faster and highly efficient HPLC separations”.

Poster Communication

**425** 40th Mid-Atlantic Regional Meeting of the American Chemical Society (MARM), Queensborough Community College, Bayside (Queens), New York, May 17-21, 2008.

Luigi Mondello

“Comprehensive LCxLC for the Analysis of Semi-Volatile Compounds”

Invited Oral Communication

**426** 5<sup>th</sup> GCxGC Symposium, Riva del Garda, Italy, May 26-27 2008.

Peter Quinto Tranchida and Luigi Mondello

“Exploitation of comprehensive two-dimensional gas chromatography for the qualitative and quantitative analysis of apparently simple samples”.

Invited Oral Communication

**427** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.

Luigi Mondello

“Comprehensive chromatography: potential, limits and applications”.

Invited Oral Plenary Communication

**428** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.

Carla Aragonese, Paola Donato, Danilo Sciarrone, Paola Dugo, Giovanni Dugo and Luigi Mondello

“Evaluation of a New Ionic Liquid-Based Stationary Phase for GC Capillary Columns”

Poster Communication

- 429** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.  
Danilo Sciarrone, Paola Dugo, Giovanni Dugo and Luigi Mondello  
“Determination and Quantitation of Harmful Compounds in Petrol Products by means of a Multidimensional Gaschromatographic System Coupled with a MS Detector”.  
Poster Communication
- 430** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.  
Barbara d’Acampora Zellner, Paola Dugo, Giovanni Dugo, and L. Mondello  
“Investigation of Italian Citrus Essential Oils and their Quality Marker Monoterpenoids by means of Gas Chromatography/Combustion/Isotope Ratio Mass Spectrometry”.  
Poster Communication
- 431** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.  
Francesco Cacciola, Paola Donato, Miguel Herrero, Paola Dugo, Giovanni Dugo, and Luigi Mondello  
“Comprehensive Two Dimensional Systems Employing Micro-Columns in the First Dimension Separation for the Analysis of Phenolic Antioxidants”.  
Poster Communication
- 432** 32nd International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 27-30, 2008.  
Rosaria Costa, Maria Rosa De Fina, Maria Rita Valentino, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Combination of Linear Retention Indices with a very Versatile Software for Improved Identification in Flavour and Fragrance Analysis”.  
Poster Communication
- 433** Giornata di studio Oli Aromatizzati: Aspetti Tecnologici, Analitici e Normativi, Livorno, 4 Giugno 2008  
Rosaria Costa, Peter Quinto Tranchida e Luigi Mondello  
“Valutazione Analitica degli Aromi”.  
Invited Oral Communication
- 434** Seminario Shimadzu, Roma, 17 Giugno 2008  
Luigi Mondello, Paola Donato, Francesco Cacciola, Paola Dugo  
“La Cromatografia Comprehensive LCxLC accoppiata alla Spettrometria di Massa IT-TOF per l’Analisi di Campioni Alimentari”.  
Invited Oral Communication
- 435** Seminario Shimadzu, Roma, 17 Giugno 2008  
Luigi Mondello, Peter Quinto Tranchida, Danilo Sciarrone  
“Tecniche Multidimensionali e Comprehensive GCxGC per l’analisi di Miscele Complesse”.  
Invited Oral Communication
- 436** VII Congresso Nazionale di Chimica degli Alimenti, Perugia 23-26 Giugno 2008  
Dugo P., Giuffrida D., Herrero M., Cacciola F., Dugo G., Mondello L.  
“Applicazione della LCxLC-PDA-MS alla Caratterizzazione dei Carotenoidi in prodotto Agrumari”

Oral Communication

- 437** VII Congresso Nazionale di Chimica degli Alimenti, Perugia 23-26 Giugno 2008  
Tranchida P.Q., Dugo P., Mondello M., Mondello L., Dugo G.  
“Analisi di Lipidi mediante la Gascromatografia Bidimensionale (GCxGC)”  
Oral Communication
- 438** VII Congresso Nazionale di Chimica degli Alimenti, Perugia 23-26 Giugno 2008  
Dugo P., Herrero M., Cacciola F., Giuffrida D., Dugo G.mo, Mondello L.  
“Analisi di Carotenoidi in Matrici Naturali attraverso l’uso di Colonne HPLC in Fase Inversa Accoppiate in serie”  
Poster Communication
- 439** The 15TH International Symposium on Carotenoids, Okinawa, Japan 22nd-27th June 2008.  
Daniele Giuffrida, Paola Dugo, Miguel Herrero, Tiina Kumm, and Luigi Mondello  
“Comprehensive LCxLC-PDA-MS Applied for the Analyses of free Carotenoids and Carotenoid Esters in Citrus Products”  
Poster Communication
- 440** The 15TH International Symposium on Carotenoids, Okinawa, Japan 22nd-27th June 2008.  
Miguel Herrero, Francesco Cacciola, Daniele Giuffrida, Giacomo Dugo, Paola Dugo, Luigi Mondello.  
“Serial Coupled Columns Reversed-Phase Separations to Analyze Carotenoids from Natural Matrices”  
Poster Communication
- 441** XLVII Congresso della Società Italiana di Fisiologia Vegetale, Pisa, June 30th-July 2nd 2008.  
Luigi Mondello  
“Comprehensive Analysis of Red Sea-weed lipids using Multidimensional Techniques”  
Invited Oral Communication
- 442** 5<sup>th</sup> International Congress on Pigments in Food, Helsinki, Finland 14-16 August 2008.  
Daniele Giuffrida, Paola Dugo, Miguel Herrero, Tiina Kumm, and Luigi Mondello  
“Comprehensive two-dimensional liquid chromatography for the analysis of the carotenoid composition of Citrus juices and essential oils”  
Oral Communication
- 443** 39th International Symposium on Essential Oils, ISEO 2008 Quedlinburg, Germany, September 7-10, 2008  
Mondello L  
“Innovative approaches for the analysis of essential oils (Fast-GC, MDGC, GCxGC, LCxLC)”  
Invited Oral Communication
- 444** 39th International Symposium on Essential Oils, ISEO 2008 Quedlinburg, Germany, September 7-10, 2008  
Baier H-U, Böhme S, Mondello L  
“The determination of allergens in cosmetics using GCxqGCMS”  
Poster Communication
- 445** 39th International Symposium on Essential Oils, ISEO 2008 Quedlinburg, Germany, September 7-10, 2008

Sciarrone D, Shellie R, Dugo P, Dugo G, Mondello L  
“Multidimensional gas chromatographic techniques for the quality assessment of tea tree oil”  
Poster Communication

**446** 39th International Symposium on Essential Oils, ISEO 2008 Quedlinburg, Germany,  
September 7-10, 2008  
Dugo P, Giuffrida D, Herrero M, Donato P, Dugo G, Mondello L  
“Comprehensive LCxLC-PDA-MS applied for the analyses of free carotenoids and carotenoid  
esters In citrus products”  
Poster Communication

**447** 39th International Symposium on Essential Oils, ISEO 2008 Quedlinburg, Germany,  
September 7-10, 2008  
Costa R, De Fina MR, Valentino MR, Rustaiyan A, Dugo P, Dugo G, Mondello L  
“Synergistic combination of quantitative GC-FID and innovative GC-MS analyses for the  
characterization of some *Artemisia* species from Iran  
Poster Communication

**448** 8<sup>th</sup> International Conference VITAMINS 2008 Nutrition and Diagnostics, ZLIN, Czech  
Republic, September 9-11, 2008  
Tranchida P.Q., Mondello L.  
The use of multi-chromatographic dimensions in the analysis of biological, cosmetic and food  
products.  
Oral Communication

**449** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana,  
Arcavacata di Rende (CS), 21-25 Settembre 2008  
P. Dugo, D. Giuffrida, M. Herrero, P. Donato, L. Mondello  
“Confronto tra l’uso di colonne HPLC in fase inversa accoppiate in serie e la cromatografia  
liquida “comprehensive” per la caratterizzazione di carotenoidi in prodotti agrumari”.  
Oral Communication

**450** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana,  
Arcavacata di Rende (CS), 21-25 Settembre 2008  
L. Mondello  
“Tecniche Cromatografiche Multidimensionali (Comprehensive) accoppiate alla spettrometria  
di massa per l’analisi di miscele complesse”.  
Oral Communication

**451** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana,  
Arcavacata di Rende (CS), 21-25 Settembre 2008  
D. Sciarrone, P.Q. Tranchida, P. Dugo, G. Dugo, L. Mondello  
“Cromatografia Tridimensionale Comprehensive Off-line LC-GCxGC Accoppiata ad uno  
Spettrometria di Massa per l’Analisi del Gasolio”  
Oral Communication

**452** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana,  
Arcavacata di Rende (CS), 21-25 Settembre 2008  
F. Cacciola, P. Donato, P. Dugo, G. Dugo, L. Mondello  
“Utilizzo di fasi stazionarie HPLC parzialmente porose in cromatografia “comprehensive”  
(LCxLC)”

Poster Communication

- 453** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
P.Q. Tranchida, M. Mondello, P. Dugo, G. Dugo, L. Mondello  
“Cromatografia gassosa multidimensionale (GCxGC): ottimizzazione dei flussi in entrambi le dimensioni”  
Poster Communication
- 454** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
A. Salvatore, P. Dugo, G. Dugo, L. Mondello  
“Valutazione dell’uso degli esteri metilici e degli esteri etilici degli acidi grassi come composti di riferimento per il calcolo degli indici di ritenzione lineari nella gascromatografia”  
Poster Communication
- 455** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
C. Ragonese, P.Q. Tranchida, P. Dugo, G. Dugo, L. Mondello  
“Liquidi Ionici a Temperatura Ambiente (RTILs) come fase Stazionaria per la Separazione di Isomeri Cis/Trans di Esteri Metilici di Acidi Grassi Insaturi”  
Poster Communication
- 456** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
P. Donato, F. Cacciola, P. Dugo, G. Dugo, L. Mondello  
“Sviluppo di un metodo LC/MS per l’analisi di proteine con alta efficienza e precisione”  
Poster Communication
- 457** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
D. Sciarrone, P.Q. Tranchida, P. Dugo, G. Dugo, L. Mondello  
“Identificazione e Quantificazione di Composti Nocivi nelle Benzine Mediante un Sistema Multidimensionale GC-MS”  
Poster Communication
- 458** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
M. Cambria, M. Russo, C. Carnovale, A. Piperno, P. Dugo, L. Mondello  
“Ottimizzazione di un metodo RP-HPLC per isolare, identificare e quantificare le furanocumarine presenti in matrici naturali”  
Poster Communication
- 459** XXI Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Arcavacata di Rende (CS), 21-25 Settembre 2008  
B. Gabriele, A. Fazio, P. Dugo, R. Costa, L. Mondello  
“Analisi dell’olio essenziale di cedro estratto con tre differenti tecniche”  
Poster Communication
- 460** Overcoming Challenger In Flavour & Fragrance Analysis: The Latest Techniques” New Dehli (INDIA) 29 September 2008

Luigi Mondello

Shimadzu Seminar “ Reliable Identification By Using Interactively Linear Retention Index (LRI) & Mass Spectra, Multidimensional GC, GC x GC, Fast-GC For The Analysis of Flavour & Fragrance Samples”

Invited Oral Communication

- 461** Overcoming Challenger In Flavour & Fragrance Analysis: The Latest Techniques” Mumbai (INDIA) 30 September 2008

Luigi Mondello

Shimadzu Seminar “ Reliable Identification By Using Interactively Linear Retention Index (LRI) & Mass Spectra, Multidimensional GC, GC x GC, Fast-GC For The Analysis of Flavour & Fragrance Samples”

Invited Oral Communication

- 462** Metodologie Analitiche Avanzate per la Determinazione di Sostanze Naturali

Chieti, Campus Universitario, Facoltà di Farmacia, 2-4 ottobre

Paola Dugo, Peter Q. Tranchida, Giovanni Dugo, Luigi Mondello

“Metodi Cromatografici Multidimensionali per la Determinazione di sostanze naturali”

Invited Oral Communication

- 463** Overcoming Challenger In Flavour & Fragrance Analysis: The Latest Techniques” Singapore (MALAYSIA) 2 October 2008

Luigi Mondello

Shimadzu Seminar “ Reliable Identification By Using Interactively Linear Retention Index (LRI) & Mass Spectra, Multidimensional GC, GC x GC, Fast-GC For The Analysis of Flavour & Fragrance Samples”

Invited Oral Communication

- 464** Overcoming Challenger In Flavour & Fragrance Analysis: The Latest Techniques” Manila (FILIPPINE) 3 October 2008

Luigi Mondello

Shimadzu Seminar “ Reliable Identification By Using Interactively Linear Retention Index (LRI) & Mass Spectra, Multidimensional GC, GC x GC, Fast-GC For The Analysis of Flavour & Fragrance Samples”

Invited Oral Communication

- 465** Sigma-Aldrich Meeting, Copenhagen, Denmark, 21 oktober 2008

Tranchida Peter Quinto, Luigi Mondello

“Evaluation of Use of a Dicationic Stationary Phase (IL-100) in the GC

Analysis of Scientifically and Industrially Important Samples”

Oral Communication

- 466** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008

R. Costa, M.R. De Fina, M.R. Valentino, P. Dugo, G. Dugo, L. Mondello

“Combination of Linear Retention Indices and Spectral Similarity: an aid for GC-MS users”

Poster Communication

- 467** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008

D. Sciarrone, P.Q. Tranchida, P. Dugo, G. Dugo, L. Mondello



“Analysis of Diesel By Means of Off-line Tridimensional Comprehensive Chromatography LC-GCxGC Couplet with a MS Detector”  
Poster Communication

**468** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
D. Sciarrone, P. Dugo, G. Dugo, L Mondello  
“Gasoline Oxygenated and Nocive Compounds Investigatio Using A Multidimensional Gas Chromatographic System Couplet With A Fast Scanning Mass Spectrometer”  
Poster Communication

**469** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
C. Ragonese, D. Sciarrone, P. Dugo, G. Dugo, L Mondello  
“Fast GC Analysis of Diesel Blend FAMEs by Means of A Ionic Liquid Stationary Phase”  
Poster Communication

**470** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
P. Dugo, P. Donato, D Giuffrida, M. Herrero, F. Cacciola, L Mondello  
“Use of Comprehensive LCxLC-PDA-MS/MS for The Analysis of Free Carotenoids and Carotenoid Esters in Citrus Products”  
Poster Communication

**471** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
Rita C. Zacardi de Souza, Fabio Augusto, Monica Mondello, Peter Quinto Tranchida, Lauro Euclides Soares Borata, Luigi Mondello  
“Análise do Oleo Essencial de Aniba Parviflora (Macacaporanga) por Cromatografia Gasosa Monodimensional e Bidimensional Abragente Acopladas a Espectrometria de Massas”  
Poster Communication

**472** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
Luigi Mondello  
“Comprehensive LCxLC Coupled to IT-TOF Mass Spectrometry for Exact Mass Measurement ”  
Invited Oral Communication

**473** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
Luigi Mondello  
“Comprehensive Two-Dimensional Gas Cromatography in Combination with Mass Spectrometry”  
Short Course

**474** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
Paola Dugo, Luigi Mondello  
“MS Analyzers, MS-MS and SIM Methods”  
Short Course

- 475** COLACRO XII - Latin-American Congress of Chromatography and Related Techniques, Florianopolis (SC) Brasil, 28-30 OUT 2008  
Luigi Mondello  
“Last Developments in Conventional Multidimensional gas Chromatography and Comprehensive Chromatography”  
Invited Oral Communication
- 476** Shimadzu EAM (European Application Marketing) Meeting, Milton Keynes, (UK) 29-30 October 2008  
Peter Quinto Tranchida, Luigi Mondello  
“Heart-cutting Multidimensional GC and Comprehensive 2D GC: Theory, Practical Aspects and Applications”  
Invited Oral Communication
- 477** 47<sup>th</sup> Eastern Analytical Symposium & Exposition, Garden State Exhibit Center Somerset, New Jersey, November 17-20, 2008  
Luigi Mondello  
“Comprehensive Chromatography: An Overview”  
Invited Oral Communication
- 478** Seminario Shimadzu - Tecniche analitiche nei settori ambientale e alimentare Istituto Zooprofilattico, Palermo, 19 Novembre 2008  
Danilo Sciarrone e Luigi Mondello.  
“Tecniche Gascromatografiche Multidimensionali e Comprehensive Applicate All’analisi Dei Grassi e Dei Pesticidi”  
Invited Oral Communication
- 479** Seminario Shimadzu - Tecniche analitiche nei settori ambientale e alimentare Istituto Zooprofilattico, Palermo, 19 Novembre 2008  
Paola Donato e Luigi Mondello.  
“Applicazioni di Cromatografia Liquida “Comprehensive per l’Analisi di Matrici Complesse”  
Invited Oral Communication
- 480** Shimadzu Corporation, Kyoto, Japan, December 1, 2008.  
Luigi Mondello.  
“FFNSC”  
Invited Oral Communication
- 481** Shimadzu Corporation, Kyoto, Japan, December 1, 2008.  
Luigi Mondello.  
“Development of a twin-oven, split-flow GC x GC-qMS prototype: towards truly optimized comprehensive 2D GC”  
Invited Oral Communication
- 482** Shimadzu Corporation, Kyoto, Japan, December 1, 2008.  
Luigi Mondello and Danilo Sciarrone.  
“LCxGC system”  
Invited Oral Communication
- 483** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techiques, Kyoto Japan, December 2-5, 2008

Luigi Mondello

“Comprehensive LC Coupled to IT-TOF Mass Spectrometry for Exact Molecules Confirmation”

Invited Oral Communication

- 484** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Kyoto Japan, December 2-5, 2008  
Danilo Sciarrone, Peter Q. Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Analysis of Diesel by Means of Off-Line Tridimensional Comprehensive Chromatography LC-GCxGC Coupled with a Ms Detector”  
Oral Communication
- 485** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Kyoto Japan, December 2-5, 2008  
Francesco Cacciola, Miguel Herrero, Paola Donato, Paola Dugo, Luigi Mondello  
“Employment of Comprehensive Two-Dimensional Liquid Chromatography for Quantification of Polyphenols in Red Wines”  
Poster Communication
- 486** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Kyoto Japan, December 2-5, 2008  
Marina Cambria, Marina Russo, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Optimization of an RP-HPLC Method for the Identification and Quantification of Oxygen Heterocyclic Components in Citrus Oils”  
Poster Communication
- 487** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Kyoto Japan, December 2-5, 2008  
Miguel Herrero, Paola Donato, Paola Dugo, Luigi Mondello  
“Characterization of Phospholipids Molecular Species in Milk by Using a Hybrid IT-TOF-MS Analyzer”  
Poster Communication
- 488** HPLC2008- The 33<sup>rd</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Kyoto Japan, December 2-5, 2008  
Paola Donato, Daniele Giuffrida, Miguel Herrero, Francesco Cacciola, Paola Dugo, Luigi Mondello  
“Comprehensive Liquid Chromatography-Tandem Mass Spectrometry of Carotenoids”  
Poster Communication
- 489** Incontro: Tecnologia dei sensori a servizio della buona alimentazione. Campus Bio-Medico, Roma, 3 dicembre 2008  
Paola Donato, Paola Dugo, Luigi Mondello  
“Applicazioni di Cromatografia Liquida “Comprehensive” per l’Analisi di Matrici Alimentari”  
Invited Oral Communication
- 490** ASASS- ACROSS Symposium on Advances in Separation Science, Hobart, Tasmania, Australia, 08 December-10 December, 2008  
Luigi Mondello  
“Optimisation of Gas Flows in Comprehensive Two-Dimensional Gas Chromatography”

Invited Oral Communication

- 491** ASASS- ACROSS Symposium on Advances in Separation Science, Hobart, Tasmania, Australia, 08 December-10 December, 2008  
Danilo Sciarrone, Robert A. Shellie, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Investigation on The level of Oxidation and Quality of Tea Tree oil Using an Innovative Multidimensional Gas Chromatographic System”  
Poster Communication
- IFEAT – Italy Study Tour, February 26<sup>th</sup>, 2009, Facoltà di Farmacia, Università di Messina,  
**492** Messina, Italy.  
L. Mondello, P.Q. Tranchida, D. Sciarrone, P. Dugo, G. Dugo  
“Innovative analytical approaches applied to essential oils”  
Oral Communication
- IFEAT – Italy Study Tour, February 26<sup>th</sup>, 2009, Facoltà di Farmacia, Università di Messina,  
**493** Messina, Italy.  
P. Dugo, L. Mondello, G. Dugo  
“HPLC and HPLC-MS of oxygen heterocyclic components of Citrus oils”  
Oral Communication
- IFEAT – Italy Study Tour, February 26<sup>th</sup>, 2009, Facoltà di Farmacia, Università di Messina,  
**494** Messina, Italy.  
R. Costa, M.R. De Fina, M.R. Valentino, P. Dugo, L. Mondello, G. Dugo  
“GC and GC-MS of Citrus oils”  
Oral Communication
- 495** 6<sup>th</sup> GCxGC Symposium, Portland, Oregon, USA, May 18-19 2009.  
Giorgia Purcaro, Peter Quinto Tranchida, Luigi Mondello  
“Advantages of using comprehensive 2D GC in the analysis of lipids”.  
Oral Communication
- 496** 6<sup>th</sup> GCxGC Symposium, Portland, Oregon, USA, May 18-19 2009.  
Giorgia Purcaro, Peter Quinto Tranchida, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Towards truly optimized comprehensive two-dimensional gas chromatography”.  
Poster Communication
- 497** 6<sup>th</sup> GCxGC Symposium, Portland, Oregon, USA, May 18-19 2009.  
Luisa Schipilliti, Giorgia Purcaro, Lanfranco Conte, Paola Dugo, Luigi Mondello  
“Quality and genuineness assignment of mandarin essential oils through chromatography/combustion/ isotope ratio mass spectrometry”  
Poster Communication
- 498** 33<sup>rd</sup> International Symposium on Capillary Chromatography & Electrophoresis, Portland, Oregon, USA, May 19-21 2009.  
Paola Donato, Francesco Cacciola, Paola Dugo, Giovanni Dugo, Luigi Mondello.  
“Comprehensive two-dimensional (RPLC X RPLC) separation of peptides on a set of totally porous and shell-packed columns”  
Poster Communication

- 499** 33<sup>rd</sup> International Symposium on Capillary Chromatography & Electrophoresis, Portland, Oregon, USA, May 19-21 2009.  
Luigi Mondello, Rosaria Costa, Maria R. De Fina, Maria R. Valentino, Paola Dugo, Giovanni Dugo.  
“Synergistic combination of quantitative GC-FID and innovative GC-MS analysis for the characterization of some citrus products”  
Poster Communication
- 500** 33<sup>rd</sup> International Symposium on Capillary Chromatography & Electrophoresis, Portland, Oregon, USA, May 19-21 2009.  
Luigi Mondello, Paola Dugo, Paola Donato  
“Comprehensive LCXLC coupled to mass spectrometry for reliable identification of complex molecules”  
Oral Communication
- 501** 33<sup>rd</sup> International Symposium on Capillary Chromatography & Electrophoresis, Portland, Oregon, USA, May 19-21 2009.  
Peter Quinto Tranchida, Giorgia Purcaro, Lanfranco Conte, Giovanni Dugo and Luigi Mondello  
“Higher resolution comprehensive two-dimensional gas chromatography”.  
Oral Communication
- 502** 33<sup>rd</sup> International Symposium on Capillary Chromatography & Electrophoresis, Portland, Oregon, USA, May 19-21 2009.  
Danilo Sciarrone, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo and Luigi Mondello  
“Determination of ethers and alcohols in gasolines by multidimensional gas chromatography coupled to mass spectrometry detection”.  
Poster Communication
- 503** CHEMIFOR, Roma Eur 28-30 maggio 2009.  
Paola Dugo, Giovanni Dugo, Luigi Mondello  
“Il ruolo delle tecniche analitiche avanzate nell’analisi degli alimenti”  
Invited Oral Communication
- 504** NATO-ARW Workshop – Detection of Biological Agents for the Prevention of Bioterrorism, Spezzano Terme (CS), June 26 to July 2, 2009  
Luigi Mondello, Peter Quinto Tranchida, Giorgia Purcaro, Erminia La Camera, Giuseppe Bisignano  
“Identification of Cellular Lipid Fraction of Bacteria by GCxGC/MS using an Innovative MS Library with the use of Linear Retention Indices”  
Invited Oral Communication
- 505** HPLC 2009 – 34<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Germany June 28 – July 2 2009  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
“Approaches to Obtain High Peak Capacity HPLC Separation of Real Samples”  
Invited Oral Communication
- 506** HPLC 2009 – 34<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Germany June 28 – July 2 2009  
Francesco Cacciola, Assis Jacques R, Paola Donato, Bastos Caramao E, Paola Dugo, Luigi Mondello

“Employment of Comprehensive Two-dimensional Liquid Chromatography for the Analysis of Mate Extracts (*Ilex paraguariensis*)”

Poster Communication

**507** HPLC 2009 – 34<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Germany June 28 – July 2 2009

Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello

“Exploiting the Feasibility and Capability of Different RPxRP Modes for the Separation of Peptides and Proteins”

Poster Communication

**508** XXIII Congresso Nazionale della Chimica Italiana – L’energia chimica muove la vita, Sorrento 5-10 July 2009

Luigi Mondello, Paola Dugo, Giovanni Dugo

“Comprehensive Chromatography (GCxGC, LCxLC) coupled to Mass Spectrometry for the Analysis of Complex Matrices”

Poster Communication

**509** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009

Luigi Mondello, Giovanni Dugo

“Higher Resolution Comprehensive Two-dimensional Gas Chromatography applied to the Analysis of Essential Oils”

Oral Communication

**510** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009

Rosaria Costa, Paola Dugo, Giovanni Dugo, Luigi Mondello

“A thorough analysis of the chemical composition of treated bergamot oil (*Citrus bergamia*)”

Oral Communication

**511** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009

Susanne Böhme, Hans-Ulrich Baier, Luigi Mondello

“Flavour & Fragrance analysis: easy heart cut MDGC with mass spectrometric detection in 1<sup>st</sup> and 2<sup>nd</sup> Dimension

Oral Communication

**512** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009

Marina Russo, Caterina Carnovale, Anna Piperno, Giovanni Dugo, Luigi Mondello, Paola Dugo

“Detemination of oxygen heterocyclic components in citrus products by HPLC with UV detection”

Poster Communication

- 513** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009  
Luisa Schipilliti, Danilo Sciarrone, Marina Russo, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Genuineness assessment of mandarin essential oils employing stable, isotope ratio analysis (SIRA)  
Poster Communication
- 514** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009  
Danilo Sciarrone, Luisa Schipilliti, Paola Dugo, Giovanni Dugo, Luigi Mondello  
A comparison Of Conventional And Multidimensional Gas Chromatography Methodologies In The Analysis Of Volatile Chiral Compounds In Mandarin Essential Oil  
Poster Communication
- 515** 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009 Savigliano, Italy, September 6-9, 2009  
Rosaria Costa, Francesca Marotta, Francesco Pizzimenti, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Volatile constituents and antimicrobial activity of *Leptospermum scoparium* J.R. et G. Forst from New Zealand, *Ravensara aromatica* Sonn. and *Cinnamomum camphora* (L.) J. Presl. from Madagascar  
Poster Communication
- 516** NU.TRI.SCI. 2009, Novara, Italy, 21 September 21- October 2 2009  
Paola Dugo, Luigi Mondello  
“Comprehensive two-Dimensional Liquid Chromatography (LCxLC): Instrumentation, Method Optimization and Applications”  
Invited Oral Communication
- 517** The 24<sup>th</sup> MSB 2009, Dalian, China, October 19-22, 2009  
Luigi Mondello, Paola Dugo  
“Multidimensional two-dimensional liquid chromatography coupled to an hybrid MS (LCxLC/IT-TOF) in the determination of complex samples”  
Invited Oral Communication
- 518** The 13<sup>th</sup> Beijing Conference and Exhibition on Instrumental Analysis, BCEIA 2009, Beijing China, November 25-28 2009  
Luigi Mondello  
“Comprehensive LC coupled to IT-TOF mass spectrometry (LCxLC/MS(IT-TOF) exact molecules confirmation using MS/MS experiments”  
Invited Oral Communication
- 519** Eleventh International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC-11)  
Bruges, Belgium, January 30<sup>th</sup> - 29<sup>th</sup> 2010  
Peter Quinto Tranchida, Luigi Mondello  
Comprehensive two-dimensional Separation for food Analysis  
Invited Oral Communication

- 520** Eleventh International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC-11)  
Bruges, Belgium, January 30<sup>th</sup> - 29<sup>th</sup> 2010  
Luigi Mondello  
Hyphenated Techniques in food Analysis  
Invited Oral Communication
- 521** Eleventh International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC-11)  
Bruges, Belgium, January 30<sup>th</sup> - 29<sup>th</sup> 2010  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
LCxLC in Food Analysis  
Invited Oral Communication
- 522** Eleventh International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analyzers (HTC-11)  
Bruges, Belgium, January 30<sup>th</sup> - 29<sup>th</sup> 2010  
Giorgia Purcaro, Peter Quinto Tranchida, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Characterization of Bacterial lipid profiles by using rapid sample preparation and fast comprehensive two-dimensional gas chromatography in combination with mass spectrometry  
Invited Oral Communication
- 523** Albertov Comprehensive Days 2010, Charles University, Prague  
February 23<sup>rd</sup> - 24<sup>th</sup>, 2010  
Peter Quinto Tranchida and Luigi Mondello  
Comprehensive GC and GCMS - applications part I, II, III  
Invited Oral Communication
- 524** Advances in Chromatography and Electrophoresis & Chiranal 2010, Olomouc, February, 8-11, 2010  
Salvatore Fanali, Anna Rocco, Paola Dugo, Chiara fanali, Luigi Mondello  
Nano-Liquid Chromatography: a very promising and useful tool in food analysis  
Invited Oral Communication
- 525** Erbe Medicinali: dalla ricerca di base alla clinica  
Messina, 29-30 Aprile 2010  
Costa Rosaria, Dugo Paola, Dugo Giovanni, Mondello Luigi  
Advanced GC Techniques applied to the analysis of medicinal plant extracts  
Invited Oral Communication
- 526** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Carla Ragonese, Paola Dugo, Leonard M. Sidisky, Mark V. Robillard, Luigi Mondello  
A new ionic liquid stationary phase for gas chromatography: preliminary evaluation and applications  
Poster Communication
- 527** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Rosaria Costa, Paola Dugo, Giovanni Dugo, Luigi Mondello



Headspace enrichment of bergamot and mandarin juices by means of monolithic material sorptive extraction (MMSE)  
Poster Communication

**528** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Danilo Sciarrone, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Quality assessment of sandalwood essential oil by means of a multidimensional gas chromatographic system with 2D fid and QMS simultaneous detection  
Poster Communication

**529** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Luisa Schipilliti, Danilo Sciarrone, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Authenticity control on lemon essential oils employing gas chromatography-combustion – isotope ratio mass spectrometry (GC-C-IRMS)  
Poster Communication

**530** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Giorgia Purcaro, Maria Scandinaro, Peter Quinto Tranchida, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Analysis of packaging-derived compounds in chewing gum by using solid-phase microextraction – comprehensive 2D gas chromatography-quadrupole mass spectrometry  
Poster Communication

**531** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Peter Quinto Tranchida, Giorgia Purcaro, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Continuous – cutting VS. comprehensive two – dimensional gas chromatography: a comparative study  
Poster Communication

**532** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Paola Donato, Eduardo Maria Sommella, Paola Dugo, Pietro Campiglia, Ettore Novellino, Luigi Mondello  
Comprehensive 2D-LCxLC-MS/MS for shotgun proteomics  
Poster Communication

**533** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Paola Donato, Marco Beccaria, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Determination of triacylglycerides in edible oils employing a comprehensive LCxLC system coupled to elsd and MS detectors  
Poster Communication

**534** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Paola Dugo, Marina Russo, Germana Torre, Giovanni Dugo, Luigi Mondello

Development of a comprehensive two-dimensional liquid chromatography method for determination of flavonoids in Citrus juices  
Poster Communication

**535** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Luigi Mondello, Ivana Bonaccorsi, Carla Ragonese, Marina Russo, Paola Donato, Paola Dugo, Giovanni Dugo  
Characterization of Mandarin (*Citrus deliciosa* Ten.) essential oil by GC, GC/MS, ESMDGC, RP-HPLC/PDA and LCMS-IT-TOF  
Poster Communication

**536** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Giorgia Purcaro, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Extending the realm of qualification and quantification in comprehensive two – dimensional gas chromatography to quadruple mass spectrometry  
Oral Communication

**537** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Luigi Mondello, Giorgia Purcaro, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo  
New frontier in ultra fast-GC/MS. Rapid quadrupole technology (20000 AMU/S) for qualitative and quantitative analysis  
Oral Communication

**538** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Paola Dugo, Paola Donato, Francesco Cacciola, Giovanni Dugo, Luigi Mondello  
Recent developments in comprehensive LC  
Oral Communication

**539** 34<sup>th</sup> International Symposium on Capillary Chromatography, and 7<sup>th</sup> GCxGC Symposium  
Riva del Garda, Italy, May 30-June 4, 2010  
Peter Quinto Tranchida, Giorgia Purcaro, Paola Dugo, Giovanni Dugo, Peter Dawes, Luigi Mondello  
Development of a flexible chip-based pneumatic modulator for comprehensive two-dimensional gas chromatography  
Oral Communication

**540** HPLC 2010 – 35<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Boston, MA USA June 19 –24, 2010  
Paola Dugo, Paola Donato, Francesco Cacciola, Giovanni Dugo, Luigi Mondello  
Recent Developments in Comprehensive LC  
Invited Oral Communication

**541** HPLC 2010 – 35<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Boston, MA USA June 19 –24, 2010  
Francesco Cacciola, Pierluigi Delmonte, Karolina Jaworska, Luigi Mondello, Jeanne Rader  
Employment of an Orthogonal Normal Phase x Reversed Phase System for the Characterization of Stevia Rebaudiana

Poster Communication

**542** HPLC 2010 – 35th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Boston, MA USA June 19 –24, 2010

Paola Dugo, Paola Donato, Eduardo Maria Sommella, Pietro Campiglia, Ettore Novellino, Luigi Mondello

Proteomic Analysis by Comprehensive 2D-LC

Poster Communication

**543** HPLC 2010 – 35th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Boston, MA USA June 19 –24, 2010

Tatsunari Yoshida, Ken-ichiro Tanaka, Tsutomu Nishine, Hirohisa Mikami, Paola Dugo, Luigi Mondello

Analysis of Panax Ginseng by Comprehensive Two-dimensional Ultra Fast Liquid Chromatography

Poster Communication

**544** HPLC 2010 – 35th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Boston, MA USA June 19 –24, 2010

Paola Dugo, Marina Rusoo, Marco Beccaria, Germana Torre, Luigi Mondello

Comprehensive Two-dimensional Liquid Chromatography for the Analysis of Natural Matrices

Oral Communication

**545** Pigments in Food –Chemical, Biological and Technological Aspects of the 6<sup>th</sup> International Congress

June 20-24, 2010 Budapest, Hungary

Daniele Giuffrida, Paola Dugo, Paola Donato, Giacomo Dugo, Luigi Mondello

Applications of Comprehensive (LCxLC) liquid chromatography in the analyses of various pigments in different natural matrices

Oral Communication

**546** 41<sup>th</sup> International Symposium on Essential Oils, ISEO 2010 Wroclaw, Poland, September 5-8, 2010

Danilo Sciarrone, Giorgia Purcaro, Peter Quinto Tranchida, Carla Ragonese, Paola Dugo, Giovanni Dugo, Luigi Mondello

Advanced Gas Chromatographic Techniques for the Quali-Quantitative Analysis of Essential Oils: Fast GC-qMS (20,000 a.m.u./sec) and Multidimensional MDGC-qMS

Oral Communication

**547** 41<sup>th</sup> International Symposium on Essential Oils, ISEO 2010 Wroclaw, Poland, September 5-8, 2010

Luisa Schipilliti, Carla Ragonese, Paola Dugo, Luigi Mondello

Authentication of begamot essential oil by Gas-Chromatography-Combustion-Isotope Ratio Mass Spectrometer (GC-C-IRMS)

Oral Communication

**548** 41<sup>th</sup> International Symposium on Essential Oils, ISEO 2010 Wroclaw, Poland, September 5-8, 2010

Caterina Carnovale, Marina Russo, Paola Dugo, Anna Piperno, Danilo Sciarrone, Giovanni Dugo, Luigi Mondello

Cellulosic-based liquid chromatographic enantiomeric separation for determination of coumarins in *Citrus* essential oils  
Oral Communication

**549** 41<sup>th</sup> International Symposium on Essential Oils, ISEO 2010 Wroclaw, Poland, September 5-8, 2010

Carla Ragonese, Danilo Sciarrone, Luigi Mondello  
Conventional and Fast Gas Chromatography Analysis Of Essential Oils Using An Ionic Stationary Phase  
Oral Communication

**550** 16<sup>th</sup> International Symposium on Separation Science, ISSS 2010 Roma, Italy, September 6-9, 2010

Luigi Mondello, Peter Quinto Tranchida, Giorgia Purcaro, Paola Dugo, Giovanni Dugo, Peter Dawes  
A Novel Chip-Based Flow Modulator for Comprehensive Two-Dimensional Gas Chromatography  
Invited Oral Communication

**551** 16<sup>th</sup> International Symposium on Separation Science, ISSS 2010 Roma, Italy, September 6-9, 2010

Paola Dugo, Paola Donato, Giovanni Dugo, Luigi Mondello  
Comprehensive LC Analysis of Real Samples  
Invited Oral Communication

**552** 16<sup>th</sup> International Symposium on Separation Science, ISSS 2010 Roma, Italy, September 6-9, 2010

Giorgia Purcaro, Peter Quinto Tranchida, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Potential of Very fast Quadruple Mass Spectrometry (20000amu/sec) for Analysis of Perfume Allergens Using Comprehensive Two-Dimensional Gas Chromatography  
Oral Communication

**553** 6<sup>th</sup> European Conference on Pesticides and related Organic Micropollutants in the Environment, Matera, September 5-10, 2010

Luigi Mondello, Peter Quinto Tranchida  
Reliable identification of pesticides in complex mixture exploiting comprehensive 2D GC-MS with the interactive use of linear retention indices during the MS library search process  
Poster Communication

**554** XXII Convegno Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, Como, 12-16 Settembre 2010

Peter Quinto Tranchida, Giorgia Purcaro, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Extending the realm of qualification and quantification in comprehensive two-dimensional gas chromatography to quadrupole mass spectrometry  
Poster Communication

**555** 28<sup>th</sup> International Symposium on Chromatography, ISC 2010 Valencia, Spain, September 12-16, 2010

Giorgia Purcaro, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello

Potential of Comprehensive two Dimensional Gas Chromatography Coupled to a Very Fast Quadrupole Mass Spectrometer (20000 AMU/SEC)  
Oral Communication

**556** 12<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2010, Poznan, Poland September 20-22, 2010  
Luigi Mondello  
SPME-GCxGC/MS Analysis of Roasted Coffee Beans using an innovative MS search with the use of Linear Retention indices.  
Oral Communication

**557** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Paola Dugo, Paola Donato, Giovanni Dugo, Luigi Mondello  
Potenzialità della LCxLC accoppiata al rilevatore di massa per l'analisi di matrici alimentari.  
Invited Oral Communication

**558** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Daniele Giuffrida, Paola Dugo, Luigi Mondello, Giacomo Dugo  
Carotenoidi in matrici naturali e loro prodotti: aspetti funzionali, compositivi e analitici  
Invited Oral Communication

**559** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Peter Quinto Tranchida, Giorgia Purcaro, Paola Dugo, Giovanni Dugo, Peter Dawes, Luigi Mondello  
Sviluppo di un modulatore pneumatico versatile basato su un chip per gas cromatografia multidimensionale comprehensive di matrici alimentari  
Oral Communication

**560** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Daniilo Sciarrone, Carla Ragonese, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Identificazione e quantificazione di additivi negli alimenti mediante gas cromatografia multidimensionale con simultanea rivelazione 2D a spettrometria di massa e ionizzazione di fiamma  
Oral Communication

**561** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Filomena Cichello, Marina Russo, Anna Piperno, Paola Dugo, Luigi Mondello  
Analisi della frazione fosfolipidica in matrici alimentari tramite HPLC accoppiata con ESI-MS/ELSD  
Poster Communication

**562** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Chiara Fanali, Laura Dugo, Giovanni D'Orazio, Melania Lirangi, Marina Dachà, Paola Dugo, Luigi Mondello

Analisi di antocianine in frutta fresca e succhi di frutta commerciali attraverso metodiche di HPLC-UV/VNANO-LC-ESI-MS  
Poster Communication

**563** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Marina Russo, Caterina Carnovale, Paola Donato, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Determinazione del contenuto di composti eterociclici ossigenati in derivati agrumari  
Poster Communication

**564** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Paola Dugo, Daniele Giuffrida, Germana Torre, Luigi Mondello  
Applicazione della cromatografia liquida comprehensive (LCxLC) alla separazione di clorofille e carotenoidi in matrici vegetali e loro prodotti  
Poster Communication

**565** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Ivana Bonaccosi, Paola Dugo, Maria Restuccia, Alessandra Trozzi, Luigi Mondello, Antonella Cotroneo, Giovanni Dugo  
Caratterizzazione della frazione volatile di oli essenziali di diverse specie di *citrus* mediante GC e GC/MS e determinazione dei rapporti enantiomerici mediante enantiogc ed enantiomdc  
Poster Communication

**566** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Laura Dugo, Chiara Fanali, Melania Lirangi, Marina Dachà, Paola Dugo, Luigi Mondello  
Caratterizzazione dell'olio di semi di sacha inchi (*PLUKENETIA VOLUBILIS L.*) attraverso tecniche cromatografiche  
Poster Communication

**567** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Carla Ragonese, Danilo Sciarrone, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Valutazione di una nuova fase stazionaria a liquidi ionici per gas cromatografia ed applicazione all'analisi di oli essenziali  
Poster Communication

**568** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Giorgia Purcaro, Peter Quinto Tranchida, Lanfranco Conte, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Potenzialità della GC X GC accoppiata a qMS detector a rapida scansione per l'analisi degli alimenti  
Poster Communication

**569** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Paola Donato, Eduardo Maria Sommella, Pietro Campiglia, Ettore Novellino, Luigi Mondello

Utilizzo della metodica comprehensive 2D-LCxLC-MS/MS in studi di proteomica  
Poster Communication

**570** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Marco Beccaria, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Analisi di triacilgliceroli (TAG) in oli ad uso alimentare mediante un sistema LC X LC accoppiato ad uno spettrometro di massa e ad un light scattering utilizzati come rilevatori  
Poster Communication

**571** VIII Congresso Nazionale di Chimica degli Alimenti – Qualità e Tipicità degli Alimenti Mediterranei: Alimentazione e Salute, Marsala, Trapani, 20-24 Settembre 2010  
Luisa Schipilliti, Paola Dugo, Luigi Mondello, Giovanni Dugo  
Determinazione del rapporto isotopico stabile del carbonio, mediante GC-C-IRMS, per il controllo dell'autenticità degli oli essenziali di origine agrumaria  
Poster Communication

**572** International PSE Symposium on: Terpenes-Application, Activity & Analysis, Istanbul, Turkey, 26-29 September 2010  
Luigi Mondello  
Comprehensive GC (GCxGC) Coupled to MS for the Reliable Identification of Terpenes and related Compounds  
Invited Oral Communication

**573** International PSE Symposium on: Terpenes-Application, Activity & Analysis, Istanbul, Turkey, 26-29 September 2010  
Laura Tedone, Danilo Sciarrone, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Reliable Identification of the Volatile Components of Sage Oil using Mass Spectrometry Library Search together with Linear Retention Indices  
Poster Communication

**574** International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, December 15-20 2010  
Luigi Mondello, Peter Quinto Tranchida, Giorgia Purcaro, Paola Dugo, Giovanni Dugo  
Comprehensive chromatography (GCxGC and LCxLC) for the analysis of complex samples  
Invited Oral Communication

**575** Albertov Comprehensive Days 2011, Charles University, Prague, February 8-9, 2011  
Peter Tranchida and Luigi Mondello  
Comprehensive two-dimensional gas chromatography: principles, optimization aspects and applications (part I, II)  
Invited Oral Communication

**576** L'innovazione cromatografica Supelco per il settore farmaceutico e biofarmaceutico: HPLC, HPLC chirale e preparazione del campione. Pomezia, RM, 23 febbraio 2011.  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Tecniche cromatografiche avanzate nell'analisi del proteoma  
Invited Oral Communication

**577** Pittcon 2011 Conference & Expo, Atlanta (USA), March 13-18, 2011  
Luigi Mondello

A Novel Chip-Based Flow Modulator for Comprehensive Two-dimensional Gas Chromatography  
Oral Communication

**578** Pittcon 2011 Conference & Expo, Atlanta (USA), March 13-18, 2011

Luigi Mondello, Paola Dugo, Paola Donato.  
Comprehensive LC of real complex samples  
Poster Communication

**579** Pittcon 2011 Conference & Expo, Atlanta (USA), March 13-18, 2011

Luigi Mondello, P.Q. Tranchida, G. Purcaro.  
Potential of comprehensive two-dimensional gas chromatography coupled to a very fast quadrupole mass spectrometer (20,000 amu/sec)  
Poster Communication

**580** Pittcon 2011 Conference & Expo, Atlanta (USA), March 13-18, 2011

Ken-Ichiro T., Tatsunari Y., Tsutomu N., Hiroshisa M., Mondello L., Dugo P.  
Analysis of panax ginseng by comprehensive two-dimensional ultra high performance liquid chromatography  
Poster Communication

**581** Shimadzu seminar, Grasse (France), March 24, 2011.

Luigi Mondello  
Multidimensional and comprehensive chromatography coupled to mass spectrometry for flavour and fragrance analysis  
Invited Oral Communication

**582** CIPAM 2011, 3<sup>rd</sup> International Congress on Aromatic and Medicinal Plants, Cagliari, Italy, April 13-15, 2011

L. Tedone, R. Costa, D. Sciarrone, I. Bonaccorsi, P. Dugo, G. Dugo, S. Ragusa, L. Mondello  
Reliable identification of volatiles by simultaneous search of linear retention indices (LRIs) and mass spectra similarity  
Oral Communication

**583** CIPAM 2011, 3<sup>rd</sup> International Congress on Aromatic and Medicinal Plants, Cagliari, Italy, April 13-15, 2011

L. Mondello, P. Donato, F. Cacciola, P. Dugo, G. Dugo.  
Advanced chromatography techniques for the study of medicinal plants and derived products  
Oral Communication

**584** Incontri di Scienza delle Separazioni – Il contributo della Scienza delle Separazioni alle problematiche ambientali, Torino, 4-5 Maggio 2011

Francesco Cacciola, Giorgia Purcaro, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello  
Utilizzo di uno spettrometro di massa ad analizzatore quadrupolare di ultima generazione in combinazione con la gascromatografia bi-dimensionale “comprehensive” per l’analisi di pesticidi in acque potabili  
Oral Communication

**585** Incontri di Scienza delle Separazioni – Il contributo della Scienza delle Separazioni alle problematiche ambientali, Torino, 4-5 Maggio 2011

Mariosimone Zoccali, Danilo Sciarrone, Peter Quinto Tranchida, Luigi Mondello



Analisi di diesel mediante un approccio “off-line” LC-GC×GC in combinazione con uno spettrometro di massa ad analizzatore quadrupolare a rapida scansione  
Oral Communication

**586** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

F. Cacciola, P. Donato, G. Torre, P. Dugo, L. Mondello

Carotenoid profiling in complex matrices by one-dimensional and comprehensive two-dimensional LC/PDA/APCI-MS

Poster Communication

**587** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

L. Mondello, P. Donato, F. Cacciola, P. Dugo

Comprehensive liquid chromatography in combination with mass spectrometry: instrumental approaches and applications

Oral Communication

**588** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

G. Purcaro, P.Q. Tranchida, M. Zoccali, S. Moret, L. Conte, P. Dugo, L. Mondello

A rapid screening method for the detection of low levels of mineral oil in vegetable oils using comprehensive 2D GC

Oral Communication

**589** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

P.Q. Tranchida, M. Zoccali, G. Purcaro, S. Moret, L. Conte, P. Dugo, L. Mondello

A rapid and sensitive LC/GC (LCxGC) method for the determination of hydrocarbon contamination in vegetable oils

Oral Communication

**590** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

I. Bonaccorsi, L. Schipilliti, P. Dugo, G. Dugo, L. Mondello

Head space-solid phase microextraction (HS-SPME) coupled to gas chromatography-combustion-isotope ratio mass spectrometer (GC-C-IRMS) for strawberry flavoured food quality control

Poster Communication

**591** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)

I. Bonaccorsi, L. Schipilliti, D. Sciarrone, P. Dugo, G. Dugo, L. Mondello

Multidimensional enantio-GC and GC-C-IRMS for the authenticity assessment of Citrus essential oils

Poster Communication

- 592** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)  
D. Sciarrone, S. Pantò, P. Dugo, G. Dugo, L. Mondello  
Enhanced terpene collection exploiting a multidimensional GC-prep system  
Poster Communication
- 593** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)  
P. Donato, F. Cacciola, E.M. Sommella, P. Dugo, L. Mondello  
Column-coupling vs. comprehensive LC/MS approaches towards  
Poster Communication
- 594** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)  
G. Purcaro, F. Franchina, P.Q. Tranchida, P. Dugo, L. Mondello  
Comprehensive two-dimensional gas chromatography combined with very fast quadrupole mass spectrometry for the analysis of water pesticides  
Poster Communication
- 595** Joint Congress 2011 – 35th International Symposium on Capillary Chromatography, 26th International Symposium on Microscale Bioseparations, 8th GCxGC symposium, May 1-5, San Diego, California (USA)  
P.Q. Tranchida, G. Purcaro, F. Franchina, P. Dugo, L. Mondello  
A simple method to calculate second-dimension retention indices in comprehensive 2D GC  
Poster Communication
- 596** Alimed 2011 – Alimentazione Mediterranea, qualità, sicurezza e salute, 22-25 Maggio 2011, Palermo  
Daniele Giuffrida, Paola Dugo, Giacomo Dugo, Francesco Salvo, Luigi Mondello  
Carotenoids in natural matrices and their derived products: functional, compositional and analytical aspects  
Oral Communication
- 597** Alimed 2011 – Alimentazione Mediterranea, qualità, sicurezza e salute, 22-25 Maggio 2011, Palermo  
Danilo Sciarrone, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Determinazione rapida ed altamente sensibile della contaminazione da idrocarburi in oli vegetali mediante un metodo LC/GC  
Oral Communication
- 598** Alimed 2011 – Alimentazione Mediterranea, qualità, sicurezza e salute, 22-25 Maggio 2011, Palermo  
L. Schipilliti, I. Bonaccorsi, P. Dugo, L. Mondello  
Gas chromatography-combustion-isotope ratio mass spectrometer (GC-C-IRMS) for food quality control  
Oral Communication

- 599** Alimed 2011 – Alimentazione Mediterranea, qualità, sicurezza e salute, 22-25 Maggio 2011, Palermo  
P. Dugo, P. Donato, F. Cacciola, G. Dugo, L. Mondello  
Innovative analytical techniques in food research  
Invited Oral Plenary Communication
- 600** Sigma-Aldrich seminar, Sample preparation and analysis of food and beverages, Praga, Czech Republic, June 1, 2011.  
Paola Donato, Luigi Mondello  
Comprehensive Chromatography in Food Analysis: Enhanced Resolution for Challenging Separations  
Invited Oral Communication
- 601** Shimadzu Dinner Scientific Forum at ASMS 2011, June 5-9, 2011, Denver, Colorado, USA  
Paola Donato, Paola Dugo, Luigi Mondello  
Comprehensive Liquid Chromatography Coupled to Mass Spectrometry (IT-TOF): Instrumentation, Software, and Selected Applications  
Invited Oral Communication
- 602** HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Budapest, Hungary, June 19-23, 2011  
Paola Dugo, Daniele Giuffrida, Germana Torre, Francesco Cacciola, Paola Donato, Luigi Mondello  
Analysis of Native Carotenoid Composition in Sweet Bell Peppers using C30 Columns in tandem  
Poster Communication
- 603** HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Budapest, Hungary, June 19-23, 2011  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
New developments in the use of comprehensive LC for the analysis of natural products  
Oral Communication
- 604** HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Budapest, Hungary, June 19-23, 2011  
Filomena Cichello, Francesco Cacciola, Paola Donato, Paola Dugo, and Luigi Mondello  
Unambiguous Determination of Milk Phospholipids by HILIC Coupled to an Hybrid Mass Analyzer  
Poster Communication
- 605** HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Budapest, Hungary, June 19-23, 2011  
Francesco Cacciola, Paola Donato, Marina Russo, Paola Dugo, and Luigi Mondello  
Polyphenolic fingerprint of various natural matrices by RPLC coupled to quadrupole and hybrid mass analyzers  
Poster Communication
- 606** HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Budapest, Hungary, June 19-23, 2011

Tatsunari Yoshida, Ken-ichiro Tanaka, Tairo Ogura, Tsutomu Nishine,  
Hirohisa Mikami, Luigi Mondello, Paola Dugo  
Detection of Panax ginseng extracts using comprehensive two-dimensional LC-MS coupled  
with PCA  
Poster Communication

**607** Shimadzu seminar at HPLC 2011, 36<sup>th</sup> International Symposium on High Performance Liquid  
Phase Separations and Related Techniques, Budapest, Hungary, June 20, 2011  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
Developing Comprehensive LC (LCxLC) Methods for Achieving High Resolution  
Separations  
Invited Oral Communication

**608** 16<sup>th</sup> International Symposium on Carotenoids – towards a brighter side of life, Krakow,  
Poland, 17-22 July, 2011.  
Daniele Giuffrida, Paola Dugo, Germana Torre, Francesco Cacciola, Luigi Mondello.  
Determination of carotenoids and their esters in chilli red pepper (*Capsicum annum* L.) by  
comprehensive (LCxLC) liquid chromatography  
Poster Communication

**609** 16<sup>th</sup> International Symposium on Carotenoids – towards a brighter side of life, Krakow,  
Poland, 17-22 July, 2011.  
Daniele Giuffrida, Adela Pintea, Paola Dugo, Germana Torre, Raluca Maria Pop, Luigi  
Mondello.  
Determination of carotenoids and their esters in fruits of Sea Buckthorn (*Hippophae  
rhamnoides* L.) by HPLC-DAD-APCI-MS  
Poster Communication

**610** The next era of mass spectrometry from Shimadzu, Seminar series 2011, July 26, 2011,  
Singapore.  
Luigi Mondello  
Multidimensional gas chromatography with a flexible Deans switch for analysis of complex  
samples  
Invited Oral Plenary Communication

**611** New horizons in separation and detection techniques, Separation Science Asia 2011, July 27-  
28, 2011, Biopolis, Singapore.  
Luigi Mondello  
A flexible chip-based pneumatic modulator for comprehensive two-dimensional gas  
chromatography  
Invited Oral Plenary Communication

**612** 17<sup>th</sup> Symposium on Separation Sciences, September 5-9, 2011, Cluj-Napoca, Romania.  
Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello.  
Use of High Pressure Liquid Chromatography Capabilities for Applications in Food Area  
Invited Oral Communication

**613** First International Congress on Cocoa Coffee and Tea, CoCoTea 2011, September 13-16,  
2011, Novara, Italy.  
P.Q. Tranchida, L. Mondello, P. Dugo, G. Dugo.  
Analysis of coffee volatiles by using comprehensive two-dimensional gas chromatography  
Invited Oral Communication

- 614** ISEO 2011 – 42<sup>nd</sup> International Symposium on Essential Oils, September 11-14, 2011, Antalya, Turkey.  
L. Mondello, P. Dugo  
Advanced chromatographic techniques for the analysis of essential oils and related products  
Invited Oral Plenary Communication
- 615** ISEO 2011 – 42<sup>nd</sup> International Symposium on Essential Oils, September 11-14, 2011, Antalya, Turkey.  
D. Sciarrone, S. Pantò, G. Dugo, P. Dugo, L. Mondello  
Enhanced collection of essential oil components by using a multidimensional GC-prep system  
Oral Communication
- 616** ISEO 2011 – 42<sup>nd</sup> International Symposium on Essential Oils, September 11-14, 2011, Antalya, Turkey.  
L. Tedone, L. Mondello, A. Ludwiczuk, Y. Asakawa  
Volatile components from selected Japanese liverworts: a chemosystematic approach  
Oral Communication
- 617** ISEO 2011 – 42<sup>nd</sup> International Symposium on Essential Oils, September 11-14, 2011, Antalya, Turkey.  
I. Bonaccorsi, D. Sciarrone, L. Schipilliti, L. Mondello and G. Dugo  
Authenticity assessment of Citrus essential oils  
Poster Communication
- 618** ISEO 2011 – 42<sup>nd</sup> International Symposium on Essential Oils, September 11-14, 2011, Antalya, Turkey  
M. Russo, M. Sarò, C. Carnovale, P. Dugo, L. Mondello  
Analysis of chiral coumarins and furocoumarins in Citrus essential oils by means NP-HPLC  
Poster Communication
- 619** XXIV Congresso Nazionale della Società Chimica Italiana, 11-16 Settembre 2011, Lecce.  
Luigi Mondello  
Comprehensive Chromatography (GCxGC, LCxLC) coupled to mass spectrometry for the analysis of complex matrices  
Invited Oral Communication
- 620** EUROanalysis 2011, 16th European Conference on Analytical Chemistry, “Challenges in Modern Analytical Chemistry”, 11-15 September 2011 – Congress Center SAVA, Belgrade, Serbia.  
P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Ultra Fast Separation and High Resolution Capabilities (LCxLC-IT-TOF) for Natural Products Applications.  
Oral Communication
- 621** RDPA 2011, Recent Developments in Pharmaceutical Analysis, 14<sup>th</sup> International Meeting, September 21-24, 2011, Pavia, Italy.  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Multidimensional liquid chromatography in combination to mass spectrometry for the analysis of natural products  
Oral Communication

- 622** RDP A 2011, Recent Developments in Pharmaceutical Analysis, 14<sup>th</sup> International Meeting, September 21-24, 2011, Pavia, Italy.  
E. Sommella, F. Cacciola, P. Donato, P. Campiglia, E. Novellino, L. Mondello, P. Dugo  
Online comprehensive 2D LC/MS for proteomic analysis  
Poster Communication
- 623** XXV Congresso Nazionale di Scienze Merceologiche, Trieste-Udine, 26-28 Settembre 2011.  
B. Chiofalo, P. Dugo, A. Prandini, F. Cacciola, N. Fawzy, P. Donato, C. Panetta, F. Lo Coco, S. Simonella, L. Mondello.  
Characterization of the triacylglycerol fraction of Salame S. Angelo PGI by means of HPLC-APCI/MS.  
Poster Communication
- 624** XX Congresso Italo-Latinoamericano de Etnomedicina, 19-22 Settembre 2011, Fortaleza, Ceara, Brasile  
Bonaccorsi I.L., Schipilliti L., Sciarrone D., Dugo P., Mondello L., Haro-Guzman L., and Dugo G.  
Characterization of Mexican lime oils *C. aurantifolia* Swingle and *C. latifolia* Tanaka by modern chromatographic techniques  
Oral Communication
- 625** XX Congresso Italo-Latinoamericano de Etnomedicina, 19-22 Settembre 2011, Fortaleza, Ceara, Brasile  
Bonaccorsi I., Dugo G., Dugo P., Mondello L.  
Advanced Liquid Chromatographic Techniques for the Analysis of Food Matrices  
Oral Communication
- 626** Dugo Giovanni and Luigi Mondello  
Invited Oral Plenary Communication
- 627** ExTech 2011 – 13<sup>th</sup> International Symposium on Advances in Extraction Technologies, September 27-29, 2011, Putra World Trade Centre, Kuala Lumpur, Malaysia  
L. Mondello, R. Costa, P. Dugo, G. Dugo  
Solid Phase Microextraction combined with Multidimensional Comprehensive Chromatography for the Analysis of Complex Mixtures  
Invited Oral Communication
- 628** ExTech 2011 – 13<sup>th</sup> International Symposium on Advances in Extraction Technologies, September 27-29, 2011, Putra World Trade Centre, Kuala Lumpur, Malaysia  
D. Sciarrone, R. Costa, P. Dugo, G. Dugo, L. Mondello  
SPME coupled to Comprehensive GCxGC with simultaneous 2D FID/MS detection for the analysis of Italian truffle (*Tuber magnatum* Pico) volatiles  
Oral Communication
- 629** ExTech 2011 – 13<sup>th</sup> International Symposium on Advances in Extraction Technologies, September 27-29, 2011, Putra World Trade Centre, Kuala Lumpur, Malaysia  
D. Sciarrone, P.Q. Tranchida, G. Purcaro, P. Dugo, G. Dugo, L. Mondello  
A rapid screening method for the detection of mineral oil composition in vegetable oils  
Poster Communication

- 630** ExTech 2011 – 13<sup>th</sup> International Symposium on Advances in Extraction Technologies, September 27-29, 2011, Putra World Trade Centre, Kuala Lumpur, Malaysia  
G. Purcaro, F. Franchina, P.Q. Tranchida, P. Dugo, R. Costa, L. Mondello  
Solid Phase Microextraction-Comprehensive Gas Chromatography with very fast Quadrupole Mass Spectrometry for the Analysis of water pesticides  
Poster Communication
- 631** 37th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2011 Dalian), October 8-11, 2011, Dalian, China  
Paola Dugo, Paola Donato, Francesco Cacciola e Luigi Mondello  
Multidimensional Liquid Chromatography: Instrumental Aspects, Method Development and Future Trend  
Invited Oral Communication
- 632** 37th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2011 Dalian), October 8-11, 2011, Dalian, China  
Paola Donato, Eduardo Sommella, Francesco Cacciola, Luigi Mondello, Paola Dugo  
On-line capillary scale comprehensive 2D-LC system for the analysis of proteome samples  
Poster Communication
- 633** The 14th Beijing Conference and Exhibition on Instrumental Analysis (BCEIA2011), October 13-16, 2011, Beijing, China  
Paola Dugo, Paola Donato, Francesco Cacciola e Luigi Mondello  
Employment of Comprehensive Two-Dimensional Liquid Chromatography in Combination with Mass Spectrometry for the Analysis of Complex Samples  
Oral Communication
- 634** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Ivana Bonaccorsi, Danilo Sciarrone, Peter Tranchida, Luisa Schipilliti, Paola Dugo, Luigi Mondello  
Multidimensional GC (MDGC) and Carbon Isotope Ratio MS (GC-C-IRMS) for the Authenticity Assessment of Citrus Essential Oils  
Oral Communication
- 635** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Francesco Cacciola, Paola Donato, Germana Torre, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Exploiting high pressure conditions in comprehensive two-dimensional liquid chromatography as a novel approach in food analysis  
Oral Communication
- 636** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Sigma-Aldrich Vendor Seminar, November 3, 2011  
P.Q. Tranchida, C. Ragonese, Paola Dugo, Luigi Mondello  
Use of Ionic Liquid Stationary Phases in the GC analysis of Food Volatiles  
Oral Communication

- 637** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Luisa Schipilliti, Peter Tranchida, Ivana Bonaccorsi, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Citrus liqueurs quality control employing headspace-solid phase microextraction (HS-SPME) coupled to gas chromatography-combustion-isotope mass spectrometry (GC-C-IRMS), enantioselective-gas chromatography (Es-GC) and gas chromatography-mass spectrometry  
Poster Communication
- 638** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Giorgia Purcaro, Peter Tranchida, Flavio Franchina, Lanfranco Conte, Paola Dugo, Luigi Mondello  
Comprehensive Two-Dimensional Gas Chromatography (GCxGC) coupled to a fast quadrupole mass spectrometer for the reliable quantification of pesticides in water  
Poster Communication
- 639** 5th International Symposium on Recent Advances in Food Analysis, November 1-4, 2011, Prague, Czech republic  
Peter Tranchida, Mariosimone Zoccali, Giorgia Purcaro, Sabrina Moret, Lanfranco Conte, Paola Dugo, Luigi Mondello  
A rapid and sensitive multidimensional liquid-gas chromatography (LC-GC) method for the determination of hydrocarbon contamination in foods  
Poster Communication
- 640** Incontri di Scienza delle Separazioni – Stato dell’arte e prospettive future delle tecniche separative in campo biologico, fitochimico e farmaceutico, Roma, 22-23 Novembre 2011.  
E. Sommella, F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Sviluppo di un sistema multidimensionale nella modalità comprehensive LCxLC per l’analisi di campioni proteoma  
Oral Communication
- 641** Incontri di Scienza delle Separazioni – Stato dell’arte e prospettive future delle tecniche separative in campo biologico, fitochimico e farmaceutico, Roma, 22-23 Novembre 2011.  
F. Franchina, P.Q. Tranchida, L. Mondello  
Analisi degli acidi grassi di campioni lipidici tramite gascromatografia a separazione multidimensionale con micro modulatore a flusso (FM-GCxGC-qMS)  
Oral Communication
- 642** Seminar “Modern Methoden der Massenspektrometrie und Chromatographie des Massenspektrometrie Zentrums”, University of Rostock, Rostock, Germany, 22 Novembre 2011.  
Luigi Mondello  
A novel flow modulator for comprehensive 2D GC  
Invited Oral Communication
- 643** HTC-12, 12th International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analysers, Bruges (Belgium), February 1-3, 2012  
P.Q. Tranchida, M. Zoccali, G. Purcaro, L. Conte, L. Mondello  
Multidimensional Liquid-Gas (LC-GC) Chromatography for the rapid determination of saturated hydrocarbon contamination in food



Oral Communication

**644** HTC-12, 12th International Symposium on Hyphenated Techniques in Chromatography and Hyphenated Chromatographic Analysers, Bruges (Belgium), February 1-3, 2012

L. Mondello, P.Q. Tranchida, F. Franchina, P. Dugo

Flow-modulated Comprehensive 2D Gas Chromatography-Mass Spectrometry assisted by a novel data-processing software

Oral Communication

**645** Pittcon Conference & Expo, March 11-15,2012, Orlando, FL, USA

L. Mondello, C. Ragonese, D. Sciarrone, P.Q. Tranchida

A new trend in GC Selectivity: ion liquid Stationary phases.

Invited Oral Communication

**646** Pittcon Conference & Expo, March 11-15,2012, Orlando, FL, USA

P.Q. Tranchida, F. Franchina, L. Mondello

A flexible chip-based pneumatic modulator for comprehensive two-dimensional gas chromatography

Oral Communication

**647** Seminario Waters “Nuove Soluzioni per l’Analisi Ambientale ed Alimentare”, March 28, 2012, Messina

G. Torre, P. Dugo, D. Giuffrida, G. Dugo, L. Mondello

Utilizzo della cromatografia liquida ad alte prestazioni accoppiata alla spettrometria di massa (HPLC-DAD-MS) per la determinazione di carotenoidi in matrici alimentari

Oral Communication

**648** 30<sup>th</sup> Informal Meeting on Mass Spectrometry, 29<sup>th</sup> April – 3<sup>rd</sup> May 2012, Olomouc, Czech Republic.

P. Donato, F. Cacciola, P. Dugo, L. Mondello.

Mass spectrometry detection in comprehensive two-dimensional liquid chromatography: instrumentation, software, and selected applications.

Oral Communication

**649** 8<sup>th</sup> International Symposium on Chromatography of Natural Products, May 17-20, 2012, Lublin, Poland.

Mondello L., Dugo p., Cacciola F., Donato P.

Advanced Chromatography Techniques for the Analysis of Natural Products.

Oral Communication

**650** 60<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, May 20 – 24, 2012, Vancouver, Canada.

M. Mreyen; F. Cacciola; P. Donato; D. Giuffrida; G. Torre; P. Dugo; L. Mondello.

Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure comprehensive two-dimensional liquid chromatography.

Poster Communication

**651** 60<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, May 20 – 24, 2012, Vancouver, Canada.

C. T. Santasania; M. Beccaria; F. Cacciola; P. Donato; P. Dugo; L. Mondello.

Analysis of Triacylglycerols in Brevoortia tyrannus (Menhaden) Oil by Non-aqueous reversed Phase Liquid Chromatography in Combination with Mass Spectrometry.  
Poster Communication

**652** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Continuous and Stop-Flow Approaches in Comprehensive Two Dimensional Liquid Chromatography  
Oral Communication

**653** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Liquid chromatography in combination with mass spectrometry for lipid analysis.  
Oral Communication

**654** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
D. Sciarrone, S. Pantò, P. Dugo, G. Dugo, L. Mondello  
Enhanced Collection Of Volatile Components By Using A Triple Deans Switch Tridimensional Preparative Capillary Gas Chromatographic System  
Oral Communication

**655** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
I. Bonaccorsi, L. Schipilliti, E. Grasso, P. Dugo, L. Mondello, G. Dugo  
Carbon Isotope Ratio MS (GC-C-IRMS) And Multidimensional GC (MDGC) for The Authenticity Assessment Of Natural Food Flavors  
Oral Communication

**656** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
G. Purcaro, L. Mondello, P. Q. Tranchida, L. Barp, L. S. Conte, S. Moret  
Elucidation Of Hydrocarbon Contamination In Food Products By Using Off-Line Solid-Phase Extraction And Comprehensive Twodimensional Gas Chromatography With Dual Detection  
Oral Communication

**657** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
P. Q. Tranchida, F. A. Franchina, P. Dugo, L. Mondello  
Enhanced Selectivity And Sensitivity of Comprehensive 2D GC Combined With A Novel Fast Triple-Quad Mass Spectrometer  
Oral Communication

**658** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
C. Ragonese, D. Sciarrone, E. Grasso, P. Dugo, L. Mondello  
Enhanced Resolution Of Terpene Compounds By Using An Ionic Liquid Stationary Phase In Peppermint Essential Oil Analysis  
Poster Communication

**659** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
N. B. Hussin, L. Mondello, R. Costa, P. Dugo, N. Yusoff N.I., M.A. Yarmo, P. Q. Tranchida, A. Ab. Wahab, M. Said  
Simple And Reliable Methods For Producing Patchoulol (Patchouli

Alcohol) Standard For Gc-Fid And Gc-Ms Analyses  
Poster Communication

**660** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
R. Costa, S. De Grazia, E. Grasso, L. Tedone, L. Mondello  
Characterization Of Agaricus Bisporus Flavor By Headspace-Solid Phase Microextraction  
(HS-SPME) Coupled With Gas Chromatography(GC-FID) And Gas Chromatography–Mass  
Spectrometry (GC-MS)  
Poster Communication

**661** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
L. Tedone, R. Costa, P. Dugo, L. Mondello  
Application Of Multiple Headspace Solid Phase Microextraction  
(MHS-SPME) Technique To The Quantitative Analysis Of Fragrance And  
Flavour Compounds  
Poster Communication

**662** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
M. Russo, M. Sarò, G. Torre, P. Dugo, L. Mondello  
Heart-Cutting Multidimensional Liquid Chromatography For The  
Determination Of Chiral Coumarins And Furocoumarins In Citrus  
Essential Oils  
Poster Communication

**663** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
M. Zoccali, P. Q. Tranchida, P. Dugo, L. Mondello  
Determination Of Saturated-Hydrocarbon Contamination In Baby  
Foods By Using On-Line Liquid-Gas Chromatography And Off-Line  
Liquid-Comprehensive Gas Chromatography Combined With Mass  
Spectrometry  
Poster Communication

**664** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
S. Pantò, D. Sciarrone, P. Dugo, G. Dugo, L. Mondello  
Highly Efficient Collection Of Oxygenated Sesquiterpenes By Means  
Of A Triple Deans Switch Tridimensional Preparative Capillary Gas  
Chromatographic System  
Poster Communication

**665** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
M. Zoccali, P. Q. Tranchida, P. Dugo, L. Mondello  
A Measurement Of Fundamental Chromatography Parameters In  
Conventional And Split-Flow Comprehensive Two-Dimensional Gas  
Chromatography-Mass Spectrometry: A Comparative Study  
Poster Communication

**666** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
F. A. Franchina, P. Q. Tranchida, P. Dugo, L. Mondello  
Increasing The Selectivity And Sensitivity Of Comprehensive Twodimensional Gas  
Chromatography By Hyphenation With A Novel Highspeed Triple-Quadrupole Mass  
Spectrometer

Poster Communication

- 667** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
E. Sommella, F. Cacciola, P. Donato, P. Dugo, P. Campiglia, L. Mondello  
On-Line Capillary Scale Comprehensive Two Dimensional Liquid Chromatography System  
For The Analysis Of Proteome Samples  
Poster Communication
- 668** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
P. Donato, F. Cacciola, G. Torre, P. Dugo, L. Mondello  
Implementing On-Line Comprehensive NP-LC×RP-UHPLC Technology For Improved  
Identification Of A Complex Foodstuff By Mass Spectrometry  
Poster Communication
- 669** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
M. Beccaria, G. Sullini, N. Fawzy, F. Cichello, F. Cacciola,  
P. Dugo, L. Mondello  
Employment Of A Stop-Flow Technique In Comprehensive Twodimensional Liquid  
Chromatography For Fish Oil Analysis  
Poster Communication
- 670** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
C. Fanali, L. Dugo, R. Costa, G. Pennaza, M. Santonico, P. Dugo, L. Mondello  
White Truffle Aroma Fingerprint: Electronic Nose And GC-MS Analyses.  
Poster Communication
- 671** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
L. Schipilliti, I. Bonaccorsi, D. Sciarrone, L. Dugo, P. Dugo, L. Mondello, G. Dugo  
Determination Of Petitgrain Oils Landmark Parameters By Using Gas  
Chromatography-Combustion-Isotope Ratio Mass Spectrometry And  
Enantioselective Multidimensional Gas Chromatography  
Poster Communication
- 672** 36th ISCC and 9th GC×GC Symposium, May 27 – June 1, 2012, Riva del Garda, Italy  
D. Kotoni, G. Pierri, A. Ciogli, P. Campiglia, G. Tenore, P. Dugo, L. Mondello, C. Villani, F. Gasparrini  
Proteomic Profile Of Caseins And Minor Proteins In Bovine Milk  
Poster Communication
- 673** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and  
nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.  
I. Bonaccorsi, D. Sciarrone, L. Schipilliti, P. Dugo, L. Mondello, G. Dugo.  
Enantioselective multidimensional GC (MDGC) and carbon isotope ratio MS (GC-C-IRMS)  
for the authenticity assessment of Citrus essential oils and other food flavours  
Oral Communication
- 674** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and  
nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.  
I. Bonaccorsi, L. Schipilliti, P.Q. Tranchida, P. Dugo, L. Mondello, A. Cotroneo.

Carbon isotopic ratios and enantiomeric distributions of selected volatiles as parameters for the quality assessment of Citrus liqueurs determined by HS-SPME coupled to GC-C-IRMS, and ES-GC

Poster Communication

**675** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

D. Giuffrida, E. Murillo, D. Menchaca, P. Dugo, G. Torre, G. Dugo, L. Mondello

Carotenoids composition in some tropical fruits

Oral Communication

**676** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

D. Giuffrida, P. Dugo, G. Torre, C. Bignardi, A. Cavazza, C. Corradini, G. Dugo, L. Mondello

Characterization of 12 Capsicum varieties by evaluation of their carotenoid profile and pungency determination

Poster Communication

**677** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

M. Mreyen, F. Cacciola, P. Donato, D. Giuffrida, G. Torre, P. Dugo, L. Mondello

Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure comprehensive two-dimensional liquid chromatography

Poster Communication

**678** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

C. Fanali, A. Rocco, Z. Aturki, P. Dugo, L. Mondello

Food analysis by using miniaturized chromatographic techniques: determination of polyphenols in tea samples

Poster Communication

**679** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

M. Beccaria, E. Sommella, N. Fawzy, F. Cacciola, P. Donato, P.Q. Tranchida, G. Dugo, P. Dugo, L. Mondello

Analysis of triacylglycerols in Brevoortia tyrannus (menhaden) oil by non-aqueous reversed phase liquid chromatography in combination with mass spectrometry

Poster Communication

**680** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

P.Q. Tranchida, M. Zoccali, P. Dugo, Giovanni Dugo, L. Mondello

Multidimensional liquid-gas (LC-GC) chromatography for the rapid determination of saturated hydrocarbon contamination in baby food

Poster Communication

**681** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

Luigi Mondello

Advanced liquid chromatography techniques for the analysis of proteins of food concern

Oral Communication

**682** ChimAlSi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.

F. Cichello, M. Russo, E. Sommella, P. Donato, P.Q. Tranchida, G. Dugo, P. Dugo, L. Mondello

Determination of phospholipids in various milk samples by means of HILIC-ELSD/MS  
Poster Communication

**683** Massa 2012 – Division of Mass Spectrometry – SCI, 40<sup>th</sup> anniversary, Palermo, July 1-5, 2012.

P.Q. Tranchida, F.A. Franchina, P. Dugo, L. Mondello

Enhanced selectivity and sensitivity of comprehensive two-dimensional gas chromatography combined with a novel high-speed triple quadrupole mass spectrometer

Oral Communication

**684** Massa 2012 – Division of Mass Spectrometry – SCI, 40<sup>th</sup> anniversary, Palermo, July 1-5, 2012.

P. Donato, F. Cacciola, G. Torre, P. Dugo, L. Mondello

Mass spectrometric elucidation of carotenoids in complex foodstuff using ultra high pressure comprehensive two-dimensional liquid chromatography

Oral Communication

**685** HPLC 2012 – 38<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Anaheim, CA (USA), June 16-21, 2012

L. Mondello, P. Donato, F. Cacciola, P. Dugo

New trends in comprehensive two-dimensional liquid chromatography in combination with mass spectrometry for the analysis of real-world samples

Oral Communication

**686** 43rd International Symposium on Essential Oils, ISEO 2012, Lisbona, Portogallo, 05-08 Settembre 2012.

Russo M., Torre G., Bonaccorsi I., Dugo P., Mondello L.

Fast-RP-HPLC/PDA analysis of oxygen heterocyclic compounds in citrus essential oils

Poster Communication

**687** 43rd International Symposium on Essential Oils, ISEO 2012, Lisbona, Portogallo, 05-08 Settembre 2012.

Ragonese C., Sciarrone D., Grasso E., Dugo P., Mondello L.

Exploiting the alternative selectivity of a novel medium-polar ionic liquid stationary phase in the gas chromatographic analysis of essential oils

Poster Communication

**688** Scienza, Alimentazione, Stili di Vita e Salute”, Bologna, Italy, September 8-10-11, 2012.

P.Q. Tranchida, L. Mondello

Aspetti metodologici e analitici per la valutazione della qualità in matrici alimentari.

Oral Communication

**689** 29th International Symposium on Chromatography, ISC 2012, September 9-13, 2012, Torun, Poland.

F. Cacciola, P. Donato, P. Dugo, L. Mondello

Advanced liquid chromatography techniques for analysis of food lipids  
Invited Oral Communication

**690** 29th International Symposium on Chromatography, ISC 2012, Torun, Poland, 09-13  
Settembre 2012.

F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Comprehensive liquid chromatography – mass spectrometry technologies in food analysis  
Oral Communication

**691** 29th International Symposium on Chromatography, ISC 2012, Torun, Poland, 09-13  
Settembre 2012

M. Mreyen, F. Cacciola, P. Donato, D. Giuffrida, G. Torre, P. Dugo, L. Mondello  
Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure  
comprehensive two-dimensional liquid chromatography  
Poster Communication

**692** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012,  
Messina (Italia), 24-26 Settembre 2012.

Russo M., Torre G., Sarò M., Dugo P., Mondello L.  
Extraction and characterization of bioactive molecules from *Citrus*-processing by-products  
Poster Communication

**693** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012,  
Messina (Italia), 24-26 Settembre 2012.

Russo M., Sarò M., Torre G., Dugo P., Mondello L.  
Multidimensional liquid chromatography for the purification and determination of chiral  
oxygen heterocyclic compounds in *Citrus* essential oils  
Poster Communication

**694** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012,  
Messina (Italia), 24-26 Settembre 2012.

Donato P., Cacciola F., Cihello F., Russo M., Dugo P., Mondello L.  
Determination of phospholipids in milk samples by means of hydrophilic interaction liquid  
chromatography coupled to evaporative light scattering and mass spectrometry detection.  
Poster Communication

**695** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012,  
Messina (Italia), 24-26 Settembre 2012

Mariosimone Zoccali, Peter Q. Tranchida, Giorgia Purcaro, Lanfranco Conte, Paola Dugo,  
Luigi Mondello.  
Determination of mineral oil saturated-hydrocarbon contamination in baby foods by using on-  
line LC-GC and off-line LC-GC×GC combined with mass spectrometry:  
Poster Communication

**696** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012,  
Messina (Italia), 24-26 Settembre 2012

Flavio Franchina, Mariosimone Zoccali, Peter Q. Tranchida, Paola Dugo, Luigi Mondello.  
SPME-(Fast) GC combined with high-speed triple quadrupole mass spectrometry for the  
unknown and target analysis of pesticides in tea samples  
Poster Communication

- 697** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012, Messina (Italia), 24-26 Settembre 2012  
Peter Q. Tranchida, Mariosimone Zoccali, Flavio A. Franchinca, Paola Dugo, Luigi Mondello.  
Enhanced selectivity and sensitivity of SPME-fast GC in combination with a novel high-speed triple-quad mass spectrometer in food analysis  
Oral Communication
- 698** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012, Messina (Italia), 24-26 Settembre 2012  
Rosaria Costa, Laura Tedone, Selenia De Grazia, Paola Dugo, Luigi Mondello  
Multiple Headspace-Solid-Phase Microextraction (MHS-SPME): An Application To Quantification Of Mushroom Volatiles  
Oral Communication
- 699** 14<sup>th</sup> International Symposium on Advances in Extraction Technologies, ExTech 2012, Messina (Italia), 24-26 Settembre 2012  
Elisa Grasso, Selenia De Grazia, Laura Tedone, Rosaria Costa, Paola Dugo, Luigi Mondello  
Changes In The Volatile Fingerprint Of The Edible Mushroom *Agaricus bisporus* Occurring During Storage  
Poster Communication
- 700** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Selenia De Grazia, Elisa Grasso, Rosaria Costa, Laura Tedone, Paola Dugo, Luigi Mondello  
Characterization of *Agaricus bisporus* Flavor By Headspace-Solid Phase Microextraction (HS-SPME) Coupled With Gas Chromatography (GC-FID) And Gas Chromatography–Mass Spectrometry (GC-MS)  
Poster Communication
- 701** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Luisa Schipilliti, Ana G. Buglia, Ivana Bonaccorsi, Paola Dugo and Luigi Mondello  
Headspace-SPME Coupled To GC-C-IRMS For The Geographical And Botanical Characterization Of Coffee  
Poster Communication
- 702** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Sebastiano Panto', Danilo Sciarrone, Carla Ragonese, Laura Tedone, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello  
Preparative gas chromatography as a powerful extraction tool for the isolation of highly pure components from complex matrices  
Oral Communication
- 703** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Laura Tedone, Sebastiano Pantò, Danilo Sciarrone, Archimede Rotondo, Paola Dugo, Luigi Mondello.  
Isolation of an unknown compound from the essential oil of *Clausena lansium* (Rutaceae) by means of a tridimensional preparative capillary gas chromatographic system



Poster Communication

- 704** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Simona Salivo, Peter Q. Tranchida, Flavio A. Franchina, Giovanni Dugo and Luigi Mondello  
Qualitative And Quantitative Analysis Of The Unsaponifiable Fraction Of Vegetable Oils By Using Comprehensive 2D GC With Dual FID/MS Detection  
Poster Communication
- 705** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Giuseppe Sullini, Marco Beccaria, Eduardo M. Sommella, Paola Dugo, Luigi Mondello  
Multidimensional Off-Line Non-Aqueous Reversed Phase Liquid Chromatography - Silver Ion Liquid Chromatography-Mass Spectrometry For The Characterization Of Triacylglycerol Positional Isomers  
Poster Communication
- 706** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Danilo Sciarrone, Carla Ragonese, Peter Q. Tranchida, Luigi Mondello  
Simultaneous Determination Of Oxygenated Compounds And BTEX In Gasoline By Means Of Multidimensional GC Coupled To MS  
Poster Communication
- 707** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Carla Ragonese, Peter Quinto Tranchida, Danilo Sciarrone, Luigi Mondello  
Simultaneous Sample Preparation And Characterization Of Biodiesel Blend Fames Exploiting An Ionic Liquid Gas Chromatographic Stationary Phase  
Poster Communication
- 708** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Nermeen Fawzy, Francesco Cacciola, Paola Donato, Filomena Cichello, Paola Dugo and Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography Combined with Mass Spectrometric Detection for Phospholipid Analysis  
Poster Communication
- 709** 14<sup>th</sup> International Symposium On Advances In Extraction Technologies, Extech 2012, Messina (Italia), 24-26 Settembre 2012  
Chiara Fanali, Laura Dugo, Rosaria Costa, Laura Tedone, Paola Dug, Luigi Mondello  
Headspace solid-phase microextraction (HS-SPME) of white truffles volatile compounds: evaluation of storage condition markers  
Poster Communication
- 710** XIV COLACRO, Congresso Latino-Americano de Cromatografia e Técnicas Relacionadas, Florianópolis, Brazil, October 2-5, 2012  
Luigi Mondello  
Comprehensive chromatography techniques coupled to mass spectrometry: a new frontier in separation science

Invited Oral Communication

- 711** XIV COLACRO, Congresso Latino-Americano de Cromatografia e Técnicas Relacionadas, Florianópolis, Brazil, October 2-5, 2012  
Ana Gabriela Buglia, Luisi Schipilliti, Ivana Bonaccorsi, Paola Dugo, Luigi Mondello  
Carbon isotope ration determination, by GC-C-IRMS using SPME extraction in natural complex matrices of food interest  
Poster Communication
- 712** Pittcon Conference & Expo, Philadelphia, USA, March 17-21 2013  
Luigi Mondello  
Multidimensional Chromatography Techniques in Food Analysis: State of the Art  
Invited Oral Communication
- 713** Pittcon Conference & Expo, Philadelphia, USA, March 17-21 2013  
Luigi Mondello  
Advances in Multidimensional Liquid Chromatography: Beyond the Separation  
Invited Oral Communication
- 714** 31<sup>st</sup> IMMS, Informal Meeting on Mass Spectrometry, Palermo, Italy, May 5-8 2013  
Francesco Cacciola, Luigi Mondello  
Advanced analytical Techniques for characterization of bio-active molecules in complex real-world samples  
Oral Communication
- 715** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Peter Tranchida, Luigi Mondello  
Gas velocity at the point of re-injection: an additional parameter in comprehensive 2D GC optimization  
Invited Oral Communication
- 716** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Luigi Mondello  
Comprehensive 2D Chromatography: A Key to Unlock Closed Analytical Doors  
Invited Oral Communication
- 717** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Danilo Sciarrone, Sebastiano Pantò, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello  
Rapid isolation of high solute amounts by using an on-line 4D chromatographic system ( prep LC-GC-GC-GC)  
Invited Oral Communication
- 718** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
High Peak Capacity Separations of Biologically-Important Molecules by Using 2DLC×UHPLC  
Invited Oral Communication

- 719** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Flavio Franchina, Mariosimone Zoccali, Peter Tranchida, Luigi Mondello  
High sensitivity flow-modulated two-dimensional gas chromatography-mass spectrometry  
Poster Communication
- 720** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Simona Salivo, Peter Tranchida, Carla Ragonese, Marco Beccaria, Luigi Mondello  
Determination of the unsaponifiable fraction of milk lipids using GC×GC-MS/FID supported by HR ToF MS for structural confirmation  
Poster Communication
- 721** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Mariosimone Zoccali, Flavio Franchina, Simona Salivo, Sebastiano Pantò, Peter Tranchida, Luigi Mondello  
SPE GC-HR ToF MS analysis of pesticides in olive oil: comparison with GC-MSMS  
Poster Communication
- 722** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Danilo Sciarrone, Mariosimone Zoccali, Flavio Franchina, Peter Quinto Tranchida, Luigi Mondello  
Combining liquid chromatography and comprehensive two-dimensional gas chromatography-mass spectrometry: a powerful approach for the determination of mineral oil food contamination  
Poster Communication
- 723** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Carla Ragonese, Danilo Sciarrone, Elisa Grasso, Peter Quinto Tranchida, Luigi Mondello  
A highly polar ionic liquid stationary phase for the determination of fatty acid profile of milk lipid fraction  
Poster Communication
- 724** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013.  
Danilo Sciarrone, Francesca Rigano, Peter Quinto Tranchida, Luigi Mondello  
Electron impact mass spectra of non volatile compound through a nano LC-EI-MS system  
Poster Communication
- 725** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Danilo Sciarrone, Sebastiano Pantò, Peter Quinto Tranchida, Luigi Mondello  
Multidimensional liquid-preparative gas chromatography (LC-GC-GC-GC-prep) for the collection of minor components from complex matrices  
Poster Communication

- 726** 37<sup>th</sup> International Symposium on Capillary Chromatography, and 10<sup>th</sup> GC×GC Symposium, Palm Springs, USA, May 12-16, 2013  
Paola Donato, Nermeen Fawzy, Francesco Cacciola, Marco Beccarla, Luigi Mondello  
Continuous vs. Stop-Flow Online Approaches for Comprehensive Two-dimensional Liquid Chromatography of Lipids  
Poster Communication
- 727** HPLC 2013, 39<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands, June 16-20th 2013  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography  
Invited Oral Communication
- 728** HPLC 2013, 39<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands, June 16-20th 2013  
Advanced Liquid Chromatography and Mass Spectrometry Techniques for Lipid Analysis  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
Invited Oral Communication
- 729** HPLC 2013, 39<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands, June 16-20th 2013  
Comprehensive Two-dimensional Liquid Chromatography in Food Analysis  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
Invited Oral Communication
- 730** HPLC 2013, 39<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands, June 16-20th 2013  
Development of an NARP-UHPLC-MS method for the analysis of milk triacylglycerols  
Marco Beccaria, Giuseppe Sullini, Paola Donato, Carla Ragonese, Marina Russo, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Poster Communication
- 731** HPLC 2013, 39<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands, June 16-20th 2013  
Employment of a Stop-Flow Technique in Comprehensive Two-Dimensional Liquid Chromatography for Fish Oil Analysis  
Marco Beccaria, Giuseppe Sullini, Paola Donato, Francesco Cacciola, Ivana Bonaccorsi, Antonella Cotroneo, Paola Dugo, Luigi Mondello  
Poster Communication
- 732** 3<sup>rd</sup> European Lipidomics Meeting, Pardubice, Czech Republic, July 2-4<sup>th</sup> 2013  
Development of a comprehensive two-dimensional liquid chromatography system combined with mass spectrometry detection for phospholipid analysis  
Francesco Cacciola, Paola Donato, Nermeen Fawzy, Paola Dugo, Luigi Mondello  
Oral Communication
- 733** 3<sup>rd</sup> European Lipidomics Meeting, Pardubice, Czech Republic, July 2-4<sup>th</sup> 2013  
Detailed analysis of the saponifiable and unsaponifiable fractions of animal and vegetable lipids by using comprehensive 2D GC  
Peter Q. Tranchida, Simona Salivo, Ivana Bonaccorsi, Antonella Cotroneo, Francesco Cacciola, Paola Dugo, Luigi Mondello

Poster Communication

- 734** EUROanalysis 2013, 17th European Conference on Analytical Chemistry, “Analytical chemistry for human well-being and sustainable development”, Warsaw, 25–29 August 2013  
Assessing new liquid chromatography/mass spectrometry methods for lipid evaluation in health and disease  
Paola Donato, Francesco Cacciola, Nermeen Fawzy, Marco Beccaria, Paola Dugo, Luigi Mondello  
Oral Communication
- 735** EUROanalysis 2013, 17th European Conference on Analytical Chemistry, “Analytical chemistry for human well-being and sustainable development”, Warsaw, 25–29<sup>th</sup> August 2013  
Elucidation of the triacylglycerol content of a fish oil (menhaden) sample by using comprehensive two-dimensional liquid chromatography in the stop-flow mode  
Paola Donato, Francesco Cacciola, Nermeen Fawzy, Marco Beccaria, Giuseppe Sullini, Paola Dugo, Luigi Mondello  
Poster Communication
- 736** EUROanalysis 2013, 17th European Conference on Analytical Chemistry, “Analytical chemistry for human well-being and sustainable development”, Warsaw, 25–29<sup>th</sup> August 2013  
Enhanced elucidation of complex samples by using a multidimensional LC-GC/MS system  
Danilo Sciarrone, Luigi Mondello  
Invited Oral Communication
- 737** EUROanalysis 2013, 17th European Conference on Analytical Chemistry, “Analytical chemistry for human well-being and sustainable development”, Warsaw, 25–29<sup>th</sup> August 2013  
LC coupled to comprehensive GCxGC/MS: a powerful approach for highly-det ailed essential oil analysis  
Danilo Sciarrone, Mario Zoccali, Ivana Bonaccorsi, Peter Quinto Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Poster Communication
- 738** EUROanalysis 2013, 17th European Conference on Analytical Chemistry, “Analytical chemistry for human well-being and sustainable development”, Warsaw, 25–29<sup>th</sup> August 2013  
Fast SPME GC coupled with high-speed triple quadrupole mass spectrometry for the untargeted and targeted analysis of tea samples  
Danilo Sciarrone, Flavio Franchina, Mariosimone Zoccali, Peter Tranchida, Paola Dugo, Luigi Mondello  
Poster Communication
- 739** 44th International Symposium on Essential Oils, ISEO 2013, Budapest, September 08-12<sup>th</sup> 2013.  
Sciarrone D., Pantò S., Tranchida P.Q., Dugo P., Mondello L.  
On-line LC-MD-GC-PREP system for the isolation of high amounts of pure components  
Oral Communication
- 740** 44th International Symposium on Essential Oils, ISEO 2013, Budapest, September 08-12<sup>th</sup> 2013.  
Fast gas chromatography combined with a high-speed triple quadrupole mass spectrometer for the analysis of unknown and target Citrus essential oil volatiles

Zoccali M., Franchina F., Sciarrone D., Bonaccorsi I., Tranchida P.Q., Dugo P., Dugo G., Mondello L.  
Poster Communication

**741** 44th International Symposium on Essential Oils, ISEO 2013, Budapest, September 08-12<sup>th</sup> 2013.

A new powerful approach for highly-detailed essential oil analysis: the off-line combination of high-performance liquid chromatography and comprehensive two-dimensional gas chromatography-mass spectrometry

Zoccali M., Sciarrone D., Bonaccorsi I., Tranchida P.Q., Dugo P., Dugo G., Mondello L.  
Poster Communication

**742** 44th International Symposium on Essential Oils, ISEO 2013, Budapest, September 08-12<sup>th</sup> 2013.

Qualitative and quantitative analysis of Tunisian Rosa spp. essential oils by means of gas chromatography (GC-FID) and gas chromatography-mass spectrometry (GC-MS)

Sciarrone D., De Grazia S., Ouerghemmi S., Sebei H., Cristiani M. Cimino F., Zanutto A., Costa R, Mondello L.  
Poster Communication

**743** Workshop "Modern scientific and analytical equipment and its application for quality evaluation of plant material", Warsaw, September 16-17<sup>th</sup> 2013.

Advanced GC techniques applied to the analysis of plant extracts

Rosaria Costa, Luigi Mondello  
Oral Communication

**744** Trends in Food Analysis VII, Gent, Belgium, September 19<sup>th</sup> 2013.

Sampling and sample preparation in food analysis

Luigi Mondello

Invited Oral Communication

**745** Seminar Comprehensive Chromatografie Shimadzu Benelux 2013, September 20<sup>th</sup> 2013.

Comprehensive Chromatography Techniques coupled to MS for the Analysis of Biological Active Molecules, Functional Foods and Nutraceuticals

Luigi Mondello

Invited Oral Communication

**746** I Prodotti Ittici tra Sicurezza e Benessere, Hotel Villa favorita Marsala, Trapani, Italia, 20-21 Settembre 2013

Approcci cromatografici innovativi per la determinazione del profilo lipidico di oli di pesce

Paola Dugo, Peter Tranchida, Luigi Mondello

Oral Communication

**747** 19<sup>th</sup> International Symposium on Separation Sciences

25-28 September 2013, Poreč, Croatia

Advanced liquid chromatography techniques for the screening of lipid molecules in food

Francesco Cacciola, Paola Donato, Marco Beccaria, Paola Dugo, Antonella Cotroneo, Luigi Mondello

Oral Communication

**748** 19<sup>th</sup> International Symposium on Separation Sciences

25-28 September 2013, Poreč, Croatia

High sensitivity flow-modulated comprehensive two-dimensional gas chromatography-mass spectrometry

Peter Q. Tranchida, Flavio A. Franchina, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Oral Communication

**749** 19<sup>th</sup> International Symposium on Separation Sciences

25-28 September 2013, Poreč, Croatia

Rapid, simple and efficient untargeted and targeted analysis by using a high-speed GC-MSMS system

Peter Q. Tranchida, Flavio A. Franchina, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Invited Oral Communication

**750** 19<sup>th</sup> International Symposium on Separation Sciences, 25-28 September 2013, Poreč, Croatia

Fast SPME GC coupled with high-speed triple quadrupole mass spectrometry for the untargeted and targeted analysis of tea samples

Flavio A. Franchina, Mariosimone Zoccali, Peter Q. Tranchida, Rosaria Costa, Paola Dugo, Luigi Mondello  
Poster Communication

**751** 19<sup>th</sup> International Symposium on Separation Sciences

25-28 September 2013, Poreč, Croatia

Fast gas chromatography combined with a high-speed triple quadrupole mass spectrometer for the analysis of unknown and target citrus essential oil volatiles

Flavio A. Franchina, Peter Q. Tranchida, Ivana Bonaccorsi, Luisa Schipilliti, Paola Dugo, Luigi Mondello  
Poster Communication

**752** 19<sup>th</sup> International Symposium on Separation Sciences, 25-28 September 2013, Poreč, Croatia

Determination of bio-active polyphenol components of pepper fruit *Capsicum annuum* L. by liquid chromatography coupled to mass spectrometry detection

Meriem Mokhtar, Jan Soukup, Paola Donato, Francesco Cacciola, Paola Dugo, Ali Riazi, Pavel Jandera, Luigi Mondello  
Poster Communication

**753** Workshop Shimadzu “Soluzioni innovative dedicate al settore analitico”, 04 Ottobre 2013, Torino.

LCxLC-IT-TOF: applicazioni in campo alimentare

Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello  
Oral Communication

**754** ITP 2013, 20<sup>th</sup> International Symposium on Electro- and Liquid Phase- Separation Techniques, October 6-9, 2013, Tenerife, Canary Islands (Spain).

Liquid Chromatography and Mass Spectrometry: a powerful tool for lipid analysis

Luigi Mondello, Paola Donato, Marco Beccaria, Francesco Cacciola, and Paola Dugo  
Invited Oral Communication

- 755** ITP 2013, 20<sup>th</sup> International Symposium on Electro- and Liquid Phase- Separation Techniques, October 6-9, 2013, Tenerife, Canary Islands (Spain).  
Emerging analytical strategies for the characterization of food bioactives  
Paola Dugo, Francesco Cacciola, Paola Donato, Jan Soukup, Pavel Jandera, and Luigi Mondello  
Invited Oral Communication
- 756** ITP 2013, 20<sup>th</sup> International Symposium on Electro- and Liquid Phase- Separation Techniques, October 6-9, 2013, Tenerife, Canary Islands (Spain).  
Nano-liquid chromatography approach for the analysis of phenolic compounds in different foods  
Chiara Fanali, Anna Rocco, Laura Dugo, Paola Dugo, Luigi Mondello  
Oral Communication
- 757** 3<sup>rd</sup> MS Food Day, October 9-11, 2013, Trento, Italy. Elucidation of the triacylglycerol fraction of menhaden fish oil by using ultra high-pressure NARP-LC/IT-TOF  
Paola Donato, Ivana Bonaccorsi, Marco Beccaria, Francesco Cacciola, Giuseppe Sullini, Antonella Cotroneo, Paola Dugo, Luigi Mondello  
Oral Communication
- 758** Workshop: Giornata di Studio di Scienza delle Separazioni  
11 ottobre 2013, Università degli Studi "G. d'Annunzio" Dipartimento di Farmacia, Chieti-Pescara,  
Sviluppo di tecniche cromatografiche bidimensionali (2D LC/PDA/MS) per l'analisi di matrici complesse: hardware, software ed applicazioni scelte.  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Oral Communication
- 759** 36<sup>o</sup> CONGRESSO NAZIONALE DELLA SOCIETÀ ITALIANA DI FARMACOLOGIA, Torino, 23-26 ottobre 2013  
Antioxidant activities of extracts obtained from two wild Algerian medicinal drugs: *Rhamnus alaternus* L. stem bark and *Retama sphaerocarpa* L. fruits.  
S. Boussahel, S.S Dahamna, D.Ferrari, F. Cacciola, P. Donato, P. Dugo, L. Mondello, F. Cimino, M. Cristani  
Poster Communication
- 760** Switzerland Mass Spec Society, Dorint Resort Blüemlisalp Beatenberg, October 31- November 1, 2013  
Development and application of a comprehensive liquid chromatography method coupled to photo-diode array and mass spectrometry detection  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Oral Communication
- 761** 6<sup>th</sup> International Symposium on Recent Advances in Food Analysis, Prague, Czech Republic, November 5-8, 2013.  
Fast, easy and efficient untargeted and targeted food analysis by using a novel high-speed GC-MS/MS system  
Peter Q. Tranchida, Luigi Mondello  
Invited Oral Communication



- 762** 6<sup>th</sup> International Symposium on Recent Advances in Food Analysis, Prague, Czech Republic, November 5-8, 2013.  
Potential and advantages of using a high performance liquid chromatography pre-separation step, prior to comprehensive two-dimensional gas chromatography-mass spectrometry essential oil analysis  
Mariosimone Zoccali, Danilo Sciarrone, Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello  
Oral Communication
- 763** 6<sup>th</sup> International Symposium on Recent Advances in Food Analysis, Prague, Czech Republic, November 5-8, 2013.  
Mariosimone Zoccali, Flavio A. Franchina, A, Peter Q. Tranchida, Ana Gabriela Buglia, Paola Dugo, Luigi Mondello  
Fast GC combined with a high-speed triple quadrupole mass spectrometer for the simultaneous analysis of unknown and target *Citrus* essential oil analytes  
Poster Communication
- 764** 6<sup>th</sup> International Symposium on Recent Advances in Food Analysis, Prague, Czech Republic, November 5-8, 2013.  
Mariosimone Zoccali, Peter Q. Tranchida, Sebastiano Pantò, Carla Ragonese, Paola Dugo, Luigi Mondello  
Fast GC combined with high-speed triple quadrupole mass spectrometry for the simultaneous analysis of untargeted and targeted tea volatiles  
Poster Communication
- 765** "I giovani e la spettrometria di massa 2013" 4 MS-J-Day, Potenza, Italy, 14 Novembre 2013  
Luigi Mondello  
Comprehensive Chromatography Techniques coupled to MS for the Analysis of Biological Active Molecules, Functional Foods and Nutraceuticals  
Invited Oral Communication
- 766** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013  
Francesca Rigano, Marina Russo, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello  
SVILUPPO DI UN SISTEMA NANOLC-EIMS PER LA COSTRUZIONE DI UN DATABASE DI SPETTRI DI MASSA DI COMPOSTI NON VOLATILI  
Oral Communication
- 767** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013  
SVILUPPO DI METODICHE ANALITICHE AVANZATE PER L'ANALISI DI TRIACILGLICEROLI IN CAMPIONI COMPLESSI (OLI DI PESCE)  
Giuseppe Sullini, Marco Beccaria, Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Oral Communication
- 768** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013  
Simona Salivo, Peter Q. Tranchida, Paola Dugo, Luigi Mondello

ANALISI DELLA FRAZIONE INSAPONIFICABILE DI LIPIDI PROVENIENTI DA VARI TIPI DI LATTE MEDIANTE GC COMPREHENSIVE E SIMULTANEA RIVELAZIONE MS/FID, IN SINERGIA CON UN SISTEMA TOF AD ALTA RISOLUZIONE PER LA DELUCIDAZIONE STRUTTURALE

Oral Communication

**769** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Mariosimone Zoccali, Peter Q. Tranchida, Giovanni Dugo, Luigi Mondello

BENEFICI DELL'APPROCCIO "OFF-LINE" LC-GCxGC IN COMBINAZIONE CON UNO SPETTROMETRO DI MASSA PER LO STUDIO DI OLI ESSENZIALI DI CITRUS

Poster Communication

**770** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Marina Russo, Veronica Inferrera, Francesca Rigano, Paola Dugo, Luigi Mondello

UTILIZZO DI UN SISTEMA LC PREPARATIVO MULTIDIMENSIONALE PER L'ISOLAMENTO DI MOLECOLE BIOLOGICAMENTE ATTIVE DA MATRICI NATURALI

Poster Communication

**771** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Sebastiano Pantò, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello

ACCOPPIAMENTO ON-LINE DI UN SISTEMA LC-MDGC-PREP PER L'ISOLAMENTO DI COMPOSTI PURI

Poster Communication

**772** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Elisa Grasso, Carla Ragonese, Danilo Sciarrone, Luigi Mondello

VALUTAZIONE DI UNA FASE STAZIONARIA A LIQUIDI IONICI DI MEDIA POLARITÀ PER L'ANALISI DI UN OLIO ESSENZIALE DI MENTA PIPERITA

Poster Communication

**773** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Selenia De Grazia, Marina Russo, Elisa Grasso, Rosaria Costa, Paola Dugo, Luigi Mondello

INDAGINE SULLA FRAZIONE ETEROCICLICA OSSIGENATA DEL SUCCO DI LIMETTA (CITRUS AURANTIFOLIA (CHRISTM) SWINGLE)

Poster Communication

**774** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Flavio A. Franchina, Peter Q. Tranchida, Paola Dugo, Luigi Mondello

GASCROMATOGRAFIA MULTIDIMENSIONALE COMPREHENSIVE CON MODULAZIONE A FLUSSO: SVILUPPO DI UN NUOVO APPROCCIO ANALITICO

Poster Communication

**775** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

L. Schipilliti, I. Bonaccorsi, P. Dugo, L. Mondello

DETERMINAZIONE DELLA TRACCIABILITÀ DI MATRICI COMPLESSE NATURALI DI INTERESSE ALIMENTARE MEDIANTE LA GASCROMATOLOGRAFIA ACCOPPIATA ALLA SPETTROMETRIA DI MASSA A RAPPORTO ISOTOPICO DEL CARBONIO (GC-C-IRMS)

Poster Communication

**776** Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, 28-29 novembre 2013

Gabriel Mazzi Leme, Francesco Cacciola, Paola Donato, Alberto José Cavalheiro, Paola Dugo, Luigi Mondello

SVILUPPO DI UN METODO MULTIDIMENSIONALE "LC×LC" PER L'ANALISI DI METABOLITI IN SUGARCANE (*Saccharum officinarum* L.)

Poster Communication

**777** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.

Peter Tranchida, Flavio Franchina, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
"A new analytical perspective in flow-modulated comprehensive two-dimensional gas chromatography"

Oral Communication

**778** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.

Luigi Mondello, Danilo Sciarrone, Sebastiano Pantò, Peter Q. Tranchida,

"Rapid collection of high solute amounts by using an on-line four-dimensional LC-GC-GC-GC preparative instrument"

Oral Communication

**779** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.

Peter Q. Tranchida and Luigi Mondello

"Unique analytical potential of a novel tandem MS instrument in GC-based analyses"

Invited Oral Communication

**780** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.

Flavio Antonio Franchina, Peter Quinto Tranchida, Mariosimone Zoccali, Paola Dugo, Luigi Mondello

"High sensitivity flow-modulated two-dimensional gas chromatography-mass spectrometry"

Poster Communication

**781** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.

Flavio Antonio Franchina, Peter Quinto Tranchida, Mariosimone Zoccali, Paola Dugo, Luigi Mondello

"Benefits of using High-Performance Liquid Chromatography pre/separation step, prior to comprehensive two-dimensional gas chromatography-mass spectrometry essential oil analysis"

Poster Communication

- 782** 13<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography, Bruges, Belgium, January 28-31, 2014.  
Flavio Antonio Franchina, Peter Quinto Tranchida, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
“Fast SPME-GC coupled with triple quadrupole mass spectrometry for the simultaneous untargeted and targeted analysis of foods”  
Poster Communication
- 783** Workshop: Giornata di Studio di Scienza delle Separazioni  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Ordine Interregionale dei Chimici del Lazio, Umbria, Abruzzo, Molise, Rome, Italy, February 28, 2014.  
“Sviluppo di tecniche cromatografiche bidimensionali (2D LC/PDA/MS) per l’analisi di matrici complesse: hardware, software ed applicazioni scelte”  
Oral Communication
- 784** Pittcon Conference & Expo 2014, Chicago, IL, USA, March 2-6, 2014  
Paola Dugo, Francesco Cacciola, Paola Donato, Luigi Mondello  
“MULTIDIMENSIONAL LIQUID CHROMATOGRAPHY APPROACHES IN FOOD ANALYSIS”  
Invited Oral Communication
- 785** Scuola Avanzata di Spettrometria di Massa e Tecniche Complementari, Milano, 10-14 Marzo 2014  
Luigi Mondello  
“Teoria degli Accoppiamenti GC/MS”  
Invited Oral Communication
- 786** Omega-3 fatty acids in health and disease, Università Campus Bio-Medico, Rome, March 13-14, 2014  
Luigi Mondello  
Innovative analytical approaches for the determination of health-promoting and pathogenic fatty acids  
Oral Communication
- 787** Spring Meeting “Fruhling in Amsterdam”, Deutsche Gesellschaft der Parfumeure in der Sepawa, April 10-11, 2014  
Giovanni Dugo, Luigi Mondello, Paola Dugo  
Italian *Citrus* Oils: Methods of analysis  
Invited Oral Communication
- 788** NVMS, 50<sup>th</sup> Anniversary Congress on Mass Spectrometry, Abdij van Rolduc, The Netherlands, April 13-15, 2014  
Paola Donato, Francesca Rigano, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Comprehensive LC×LC-MS-MS: Application to Challenging Food Case-Study  
Invited Oral Communication
- 789** MSB 2014, 30<sup>th</sup> International Symposium on MicroScale Bioseparations, Pécs, Hungary, April 27 - May 1, 2014  
Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello

Advanced Liquid Chromatography Techniques for proteomic analysis  
Poster Communication

- 790** MSB 2014, 30th International Symposium on MicroScale Bioseparations, Pécs, Hungary, April 27 - May 1, 2014  
Flavio A. Franchina, Maria E. Machado, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Francesco Cacciola, Luigi Mondello  
Characterization of organic sulfur compounds in fossil fuels using flow modulated comprehensive two-dimensional gas chromatography and tandem mass spectrometry detector  
Poster Communication
- 791** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Paola Dugo, Francesco Cacciola, Paola Donato, Luigi Mondello  
Comprehensive Two-Dimensional Liquid Chromatography Coupled To Mass Spectrometry For Food Applications  
Invited Oral Communication
- 792** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Advances in Comprehensive Two-Dimensional Chromatography  
Invited Oral Communication
- 793** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Paola Donato, Francesco Cacciola, Nermeen Fawzy, Marco Beccaria, Paola Dugo, Luigi Mondello  
Assessing New Liquid Chromatography/Mass Spectrometry Methods for Lipid Evaluation in Health and Disease.  
Poster Communication
- 794** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Francesca Rigano, Marina Russo, Danilo Sciarrone, Paola Donato, Paola Dugo, Luigi Mondello  
Development of a NanoLC-EIMS Method for the Analysis of Semi/Non Volatile Chemicals  
Poster Communication
- 795** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Marco Beccaria, Giorgia Purcaro, Antonio Aloisi, Angela Marra, Paola Donato, Lanfranco Conte, Paola Dugo, Luigi Mondello  
Reliability of the  $\Delta$ ECN42 Limit and Global Method for Extra Virgin Olive Oil Purity Assessment using Different Analytical Approaches.  
Poster Communication
- 796** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Veronica Inferrera, Marina Russo, Giusy Tripodo, Paola Donato, Paola Dugo, Luigi Mondello

Identification and Quantification of Bioactive Molecules in Industrial Processing By-products by Means of HPLC/PDA/MS.

Poster Communication

- 797** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Paola Donato, Francesco Cacciola, Francesca Rigano, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
On-line Two-dimensional Liquid Chromatography-triple Quadrupole Mass Spectrometry for Enhanced Resolution and Sensitivity: Application to a Challenging Food-case Study I.  
Poster Communication
- 798** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Paola Donato, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello  
On-line Two-dimensional Liquid Chromatography-triple Quadrupole Mass Spectrometry for Enhanced Resolution and Sensitivity: Application to a Challenging Food-case Study II.  
Poster Communication
- 799** HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Marina Russo, Veronica Inferrera, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello,  
Multidimensional LC Preparative System Coupled with a Mass Spectrometer for Isolation of Bioactive Molecules  
Poster Communication
- 800** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Paola Dugo, Paola Donato, Francesco Cacciola, Luigi Mondello  
“Comprehensive 2D-LC: a rapid evolution of a powerful technique”  
Invited Oral Communication
- 801** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello  
“Flow-modulated GC×low-pressureGC: a novel approach for high resolution/sensitivity GC separations”.  
Invited Oral Communication
- 802** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Ivana Bonaccorsi, Luisa Schipilliti, Luigi Mondello  
“Gas Chromatography-Combustion-Carbon Isotope Mass Spectrometry (GC-C-IRMS) for the traceability of natural compounds”  
Oral Communication
- 803** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Giuseppe Sullini, Paola Donato, Marco Beccaria, Francesco Cacciola, Paola Dugo, Luigi Mondello

Coupling of new silver thiolate and monodisperse materials in Comprehensive Two-Dimensional Liquid Chromatography for truly orthogonal lipid separation  
Oral Communication

**804** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Chiara Fanali, Anna Rocco, Laura Dugo, Paola Dugo, Luigi Mondello  
Analysis of principal flavonoids in Citrus juices by Nano-LC and determination of their antioxidant activity  
Oral Communication

**805** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Mariosimone Zoccali, Flavio A. Franchina, Maria E. Machado, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Luigi Mondello  
“On-line liquid chromatography-comprehensive 2D gas chromatography-triple quad mass spectrometry: a powerful and flexible 4D separation-science tool”.  
Oral Communication

**806** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Simona Salivo, Flavio A. Franchina, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
“Flow-modulated comprehensive 2D gas chromatography combined with high-resolution time-of-flight mass spectrometry”.  
Oral Communication

**807** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
“Novel powerful MS strategies in Comprehensive 2D LC”  
P. Donato, F. Cacciola, F. Rigano, P. Dugo, L. Mondello  
Invited Oral Communication

**808** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
F. Franchina, P.Q. Tranchida, L. Mondello  
“Double-oven Comprehensive 2D GC Combined with a Rapid Triple-quadrupole Mass Spectrometer”  
Invited Oral Communication

**809** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
S. Salivo, P.Q. Tranchida, L. Mondello  
“Use of High-resolution TOFMS in GC-based Food Analysis”  
Invited Oral Communication

**810** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Sara Granafei, Simona Salivo, Peter Q. Tranchida, Luigi Mondello, Francesco Palmisano, Tommaso R. Cataldi  
“Fatty acids composition of the Gram-negative bacterium Rhodobacter Spheroides”.

Poster Communication

- 811** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Mariosimone Zoccali, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
“The on-line combination of liquid chromatography-large volume injection-comprehensive two-dimensional gas chromatography-triple quad mass spectrometry: a powerful four-dimensional separation-science tool”.  
Poster Communication
- 812** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Sebastiano Pantò, Danilo Sciarrone, Mariarosa Maimone, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
“Rapid isolation of high solute amounts by using an on-line four-dimensional preparative system: normal phase-liquid chromatography coupled to methyl siloxane-ionic liquid-wax phase gas chromatography”.  
Poster Communication
- 813** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Mariarosa Maimone, Sebastiano Pantò, Danilo Sciarrone, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
“Construction of a vapour phase Fourier-transform infrared spectroscopy database for the correct identification of components contained in complex mixtures”.  
Poster Communication
- 814** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Laurent Boisauvert, Valeria Manzin, Peter Tranchida, Luigi Mondello  
“Characterization of sebum lipids using comprehensive two-dimensional gas chromatography combined with rapid-scanning quadrupole mass spectrometry”.  
Poster Communication
- 815** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Maria E. Machado, Flavio A. Franchina, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Luigi Mondello  
“Characterization of organic sulfur compounds in fossil fuels using flow-modulated Comprehensive Two-dimensional Gas Chromatography and Tandem Mass Spectrometry”.  
Poster Communication
- 816** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Simona Salivo, Marco Piparo, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
“Detailed elucidation of the unsaponifiable fraction of lipids by using enhanced peak capacity chromatography and high-resolution mass spectrometry processes”.  
Poster Communication
- 817** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.



Flavio A. Franchina, Marco Beccaria, Simona Salivo, Peter Q. Tranchida, Luigi Mondello  
“Detailed lipid characterization of lemon seed oil by using advanced chromatography methods in combination with mass spectrometry”.  
Poster Communication

**818** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Mariosimone Zoccali, Peter Q. Tranchida, Paola Dugo, Giovanni Dugo, Luigi Mondello  
“The off-line combination of high performance liquid chromatography and comprehensive two-dimensional gas chromatography mass spectrometry: a new powerful approach for highly-detailed essential oil analysis”.  
Poster Communication

**819** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Elisa Grasso, Carla Ragonese, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
“Evaluation of an ionic liquid stationary phase in the analysis of bergamot essential oil”  
Poster Communication

**820** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Rosaria Costa, Elisa Grasso, Paola Dugo, Luigi Mondello  
“Application of in vivo SPME to the determination of pesticides living claims”  
Poster Communication

**821** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Paola Donato, Ivana Bonaccorsi, Veronica Inferrera, Marco Beccaria, Andrea Perissi, Paola Dugo, Luigi Mondello  
“Systematic approach to the study of non polar lipids in edible oils by supercritical fluid chromatography”  
Poster Communication

**822** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Ivana Bonaccorsi, Paola Donato, Veronica Inferrera, Andrea Perissi, Paola Dugo, Luigi Mondello  
“Supercritical fluid chromatography: a fast and green technique for carotenoid fingerprinting in foodstuffs”  
Poster Communication

**823** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Marina Russo, Veronica Inferrera, Paola Dugo, Luigi Mondello  
“Isolation of bioflavonoids from *Citrus* by-products by means of Multidimensional LC preparative system coupled with a mass spectrometer”  
Poster Communication

**824** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Francesca Rigano, Danilo Sciarrone, Paola Dugo, Luigi Mondello

Analysis of low-volatility components by a nano-LC system coupled to an electron impact mass spectrometer  
Poster Communication

**825** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Luisa Schipilliti, Ivana Bonaccorsi, Paola Dugo, Giovanni Dugo, Luigi Mondello  
Characterization of secondary metabolites of Citrus plants by using Gas Chromatography hyphenated to Carbon Isotope Ratio Mass Spectrometry (GC-C-IRMS)  
Poster Communication

**826** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Danilo Sciarrone, Sebastiano Pantò, Paola Dugo, Luigi Mondello  
Collection of enantiomeric pure components by using a Multidimensional Gas Chromatographic Preparative System  
Poster Communication

**827** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Selenia De Grazia, Rosaria Costa, Laura Tedone, Salvatore Ragusa, Luigi Mondello  
Monodimensional (GC-FID and GC-MS) and Comprehensive Two-dimensional (GC×GC) Gas Chromatography for the assessment of volatiles and fatty acids from *Ruta chalepensis* L. plants  
Poster Communication

**828** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Francesco Cacciola, Gabriel Mazzi Leme, Paola Donato, Alberto Jose Cavalheiro, Paola Dugo, Luigi Mondello  
Continuous vs. segmented second dimension system gradients for Comprehensive Two-Dimensional Liquid Chromatography of sugarcane (*Saccharum Spp.*)  
Poster Communication

**829** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Increase the separation power of Two-Dimensional Liquid Chromatography through the use of shifted gradients for polyphenol determination in red wine  
Poster Communication

**830** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.

Paola Donato, Francesco Cacciola, Francesca Rigano, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
The on-line hyphenation of Comprehensive Liquid Chromatography to Triple Quadrupole Mass Spectrometry for the elucidation of the carotenoid content in foodstuffs with high orthogonality and sensitivity  
Poster Communication

- 831** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Nermeen Girgis, Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Throughout investigation of Fused-core stationary phases coupled to Ion Trap-time of flight mass spectrometry detection for a Comprehensive elucidation of the total lipid profile of human plasma  
Poster Communication
- 832** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Veronica Inferrera, Giusy Tripodo, Marina Russo, Paola Dugo, Luigi Mondello  
Characterization of bioactive molecules in extra virgin olive oil and in olive by-product by means of hplc coupled with photodiode array and electrospray ionization mass spectrometry detection  
Poster Communication
- 833** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Meriem Mokhtar, Jan Soukup, Paola Donato, Francesco Cacciola, Paola Dugo, Ali Riazi, Pavel Jandera, Luigi Mondello  
Determination of polyphenols in *Capsicum annum* l. by liquid chromatography coupled to mass spectrometry detection and evaluation of the biological activity  
Poster Communication
- 834** 38<sup>th</sup> International Symposium on Capillary Chromatography, and 11<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Marco Beccaria, Giuseppe Sullini, Angela Marra, Paola Dugo, Luigi Mondello  
Development of an off-line comprehensive two-dimensional liquid chromatography for triacylglycerol analysis in fish oil  
Poster Communication
- 835** ExTech 2014, 16<sup>th</sup> International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
R. Costa, M. Beccaria, E. Grasso, L. Mondello  
Sample Preparation Techniques coupled to Advanced Chromatographic Methods for Marine Organisms Investigation  
Invited Oral Communication
- 836** ExTech 2014, 16<sup>th</sup> International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
L. Mondello and M. Beccaria  
Comprehensive Gas Chromatography coupled to MS/MS. An additional dimension for complex analysis and easier sample preparation  
Invited Oral Communication
- 837** ExTech 2014, 16<sup>th</sup> International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
M. Beccaria, R. Costa, E. Grasso, M. Oteri, G. Tripodo, P. Dugo, L. Mondello  
Application of Different Extraction Techniques for the Determination of Triacylglycerols by Multidimensional Liquid Chromatography in Fish from The Mediterranean Sea  
Poster Communication

- 838** ExTech 2014, 16<sup>th</sup> International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
M. Beccaria, R. Costa, E. Grasso, A. Albergamo, L. Mondello  
Comparison of Different Extraction Procedures for the GC×GC Investigation of Fats in Fish and Shellfish  
Poster Communication
- 839** 8° MS-Pharmaday, Aboca-Sansepolcro, Italy, June 11-13, 2014  
Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello  
Comprehensive liquid chromatography coupled to tandem mass spectrometry for the characterization of polyphenols in mate extracts  
Oral Communication
- 840** Il Progetto Be & Save “Lo scarto come valore aggiunto”, Dipartimento di scienze veterinarie, Messina, 12 Giugno, 2014  
Luigi Mondello  
Approcci analitici ecocompatibili nell’ambito del progetto Be&Save per la determinazione di sostanze ad elevato potere bionutrizionale  
Oral Communication
- 841** ASMS 2014, 62nd ASMS Conference on Mass Spectrometry and Allied Topics, SHIMADZU BREAKFAST SEMINARS, Baltimore, USA, June 15-19, 2014  
Paola Donato, Luigi Mondello  
The Peaks Behind the Peaks: On-Line LC×LC-MS/MS strategies for unprecedented resolution and sensitivity  
Oral Communication
- 842** LC-MS 2014 Corso avanzato sull'accoppiamento della spettrometria di massa con tecniche di separazione in fase liquida, Lucca, 23-26 Giugno 2014  
Paola Donato, Luigi Mondello  
Accoppiamento della Spettrometria di Massa con Tecniche di Cromatografia Liquida Multidimensionale  
Oral Communication
- 843** 10th European Pesticide Residue Workshop, Dublin, Ireland, June 30<sup>th</sup> - July 3<sup>rd</sup>, 2014  
Danilo Sciarrone, Peter Tranchida, Luigi Mondello  
Fast and efficient untargeted and targeted analysis of pesticide in food by using a novel high-speed GC and GC×GC-MSMS system  
Invited Oral Communication
- 844** 10th European Pesticide Residue Workshop, Dublin, Ireland, June 30<sup>th</sup> - July 3<sup>rd</sup>, 2014  
Danilo Sciarrone, Peter Tranchida, Luigi Mondello  
Fast and Efficient Untargeted and Targeted Analysis of Pesticides in Food by Using a Novel High-Speed GC and GC×GC-MSMS System  
Poster Communication
- 845** X CONGRESSO ITALIANO DI CHIMICA DEGLI ALIMENTI, Firenze, Italy, July 6-10 2014  
Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello  
Comprehensive 2D gas chromatography combined with triple quadrupole mass spectrometry: a powerful tool for food analysis

Oral Communication

- 846** 20<sup>th</sup> International Mass Spectrometry Conference, Geneva, Switzerland, August 24-29, 2014.  
Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo and Luigi Mondello  
“The combination of “fast” triple-quad MS with flow-modulated comprehensive 2D gas chromatography for the untargeted and targeted analysis of complex mixtures”  
Poster Communication
- 847** 20<sup>th</sup> International Symposium on Separation Science (ISSS 2014), Prague, Czech Republic, August 30-September 2, 2014  
Luigi Mondello  
COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY AS A POWERFUL TOOL IN FOOD ANALYSIS  
Invited Oral Communication
- 848** 20<sup>th</sup> International Symposium on Separation Science (ISSS 2014), Prague, Czech Republic, August 30-September 2, 2014  
Sebastiano Pantò, Danilo Sciarrone, Mariarosa Maimone, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello  
The on-line combination of liquid chromatography with a three-dimensional gas chromatography preparative instrument for the rapid collection of high amounts of pure solutes from complex mixtures  
Oral Communication
- 849** 20<sup>th</sup> International Symposium on Separation Science (ISSS 2014), Prague, Czech Republic, August 30-September 2, 2014  
Pantò S., Sciarrone D., Maimone M., Tranchida P. Q., Dugo P., Mondello L.  
VAPOUR PHASE FOURIER-TRANSFORM INFRARED SPECTROSCOPY FOR THE UNAMBIGUOUS IDENTIFICATION OF COMPONENTS IN COMPLEX MIXTURES  
Poster Communication
- 850** 20<sup>th</sup> International Symposium on Separation Science (ISSS 2014), Prague, Czech Republic, August 30-September 2, 2014  
Sebastiano Pantò, Maria E. Machado, Flavio A. Franchina, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Luigi Mondello  
Analysis of organic sulfur compounds in fossil fuel derivatives by means of a flow modulated comprehensive two-dimensional gas chromatographic system coupled to a triple-quadrupole mass spectrometer  
Poster Communication
- 851** 45<sup>th</sup> International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Danilo Sciarrone, Sebastiano Pantò, Francesco Cacciola, Luigi Mondello  
ADVANCED PREPARATIVE TECHNIQUES FOR THE COLLECTION OF PURE COMPONENTS FROM ESSENTIAL OILS  
Invited Oral Communication
- 852** 45<sup>th</sup> International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Luigi Mondello

Comprehensive Chromatography (GC×GC, LC×LC, LC-GC×GC/MS) approaches for the analysis of Essential Oils  
Invited Oral Communication

**853** 45<sup>th</sup> International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014

Adriana Arigò, Marina Russo, Maria Luisa Calabrò, Paola Dugo, Luigi Mondello  
COLD-PRESSED LEMON ESSENTIAL OIL BY-PRODUCTS: ENHANCEMENT THROUGH BIOACTIVE MOLECULES ISOLATION.  
Poster Communication

**854** 45<sup>th</sup> International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014

Sebastiano Pantò, Danilo Sciarrone, Mariarosa Maimone, Peter Quinto Tranchida, Paola Dugo, Luigi Mondello  
CREATION OF A VAPOUR PHASE FOURIER-TRANSFORM INFRARED SPECTROSCOPY DATABASE AS A TOOL FOR THE IDENTIFICATION OF COMPONENTS IN COMPLEX MIXTURES  
Poster Communication

**855** Simpósio Brasileiro de Cromatografia e Técnicas Afins (SIMCRO 2014), Campos do Jordão (SP), Brazil, September 4-6, 2014

D.Tomasini, F.Cacciola, F.Rigano, D.Sciarrone, P.Donato, M.Beccaria, E.Caramão, P.Dugo, L.Mondello  
LIQUID CHROMATOGRAPHY METHODS FOR THE CHARACTERIZATION OF AQUEOUS PHASE FROM BIO-OILS  
Poster Communication

**856** 23° SILAE Congress Marsala, Italy, September 7-12, 2014

Bonaccorsi, I.L.; Donato, P.; Inferrera, V.; Dugo, P.; Mondello, L.  
FAST AND ECO-FRIENDLY ANALYSIS OF BIOACTIVE MOLECULE  
Oral Communication

**857** 23° SILAE Congress Marsala, Italy, September 7-12, 2014

Schipilliti, L., Bonaccorsi I., Dugo G., Dugo P., Mondello L.  
GENOTYPE CHARACTERIZATION OF HELICHRYSUM ITALICUM (ROTH) G. DON FIL. SUBSP. ITALICUM BY GAS CHROMATOGRAPHY - ISOTOPE RATIO MASS SPECTROMETRY.  
Oral Communication

**858** 23° SILAE Congress Marsala, Italy, September 7-12, 2014

Costa, R.; Ragusa, S.; Bonaccorsi, I.; Zanotto, A.; Franchina, F.A.; Grasso, E. ; Mondello, L.  
COMPREHENSIVE GAS CHROMATOGRAPHIC (GC×GC) ANALYSIS OF ARTEMISIA ARBORESCENS L. (ASTERACEAE) FROM SOUTH ITALY  
Poster Communication

**859** 30<sup>th</sup> International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014

Comprehensive two-dimensional gas chromatography mass spectrometry: theory, practical aspects and instrumentation imensional liquid chromatography approaches in food analysis  
Luigi Mondello

Invited Oral Communication

**860** 30<sup>th</sup> International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014

Combining orthogonal multidimensional liquid chromatography approaches in food analysis  
Francesco Cacciola, Paola Donato, Francesca Rigano, Ambrogina Albergamo, Paola Dugo, Luigi Mondello  
Oral Communication

**861** 30<sup>th</sup> International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014

Mariosimone Zoccali, Flavio A. Franchina, Maria E. Machado, Claudia Zini, Elina B. Caramão, Peter Q. Tranchida, Luigi Mondello  
A powerful four-dimensional separation-science tool: on-line liquid chromatography-comprehensive two dimensional gas chromatography-triple quad mass spectrometry  
Oral Communication

**862** 30<sup>th</sup> International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014

Alessia Ciogli, Sergio Menta, Marco Pierini, Luigi Mondello, Claudio Villani, Francesco Gasparrini  
Silver ion Ultra-High-Performance Liquid Chromatography to resolve the complex mixtures of lipids  
Poster Communication

**863** 12<sup>th</sup> Euro Fed Lipid Congress, Montpellier, France, September 14-17, 2014.

Peter Q. Tranchida, Simona Salivo, Paola Dugo and Luigi Mondello  
“Analysis of the saponifiable and unsaponifiable fractions of lipids by using comprehensive two-dimensional gas chromatography with mass spectrometry/flame ionization detection”.  
Poster Communication

**864** 12<sup>th</sup> Euro Fed Lipid Congress, Montpellier, France, September 14-17, 2014.

Marco Beccaria, Giorgia Purcaro, Peter Tranchida, Paola Dugo, Luigi Mondello  
RELIABILITY OF THE  $\Delta$ ECN42 LIMIT AND GLOBAL METHOD FOR EXTRA VIRGIN OLIVE OIL PURITY ASSESSMENT USING DIFFERENT ANALYTICAL APPROACHES  
Poster Communication

**865** The International Federation of Essential Oils and Aroma Trades, IFEAT 2014 Rome, Italy, September 21-25, 2014

Luigi Mondello  
Authenticity of citrus essential oils through advanced analytical techniques  
Invited Oral Communication

**866** International Federation of Essential Oils and Aroma Trades, IFEAT 2014 Rome, Italy, September 21-25, 2014

Paola Dugo, Luigi Mondello  
Invited Oral Communication

**867** XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014

Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello

FLOW-MODULATED GC × LOW-PRESSURE-GC: A NOVEL APPROACH FOR HIGH RESOLUTION/SENSITIVITY SEPARATIONS IN GAS CHROMATOGRAPHY

Invited Oral Communication

**868** XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014

Luigi Mondello

Comprehensive Two-Dimensional Gas Chromatography

Invited Oral Communication

**869** XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014

Danilo Sciarrone and Luigi Mondello

Liquid chromatography coupled to a three-dimensional gas chromatography preparative system for the rapid collection of high amounts of pure solutes from natural samples

Oral Communication

**870** XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014

D.Tomasini, F.Cacciola, F.Rigano, D.Sciarrone, P.Donato, M.Beccaria, E.Caramão, P.Dugo, L.Mondello

Complementary analytical liquid chromatography methods for the characterization of aqueous phase from pyrolysis of lignocellulosic biomasses

Poster Communication

**871** Novartis Vaccines Italia, Siena, Italy, October 23, 2014

Luigi Mondello

Comprehensive Liquid Chromatography (LC×LC) for the Analysis of Complex Samples

Siena, 23 Ottobre 2014

Invited Oral Communication

**872** Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014

Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello

GC multidimensionale “comprehensive” con modulazione a flusso: è questo il futuro delle separazioni GC ad alta risoluzione?

Invited Oral Communication

**873** Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014

Isolamento di molecole biologicamente attive per mezzo di cromatografia liquida preparativa multidimensionale

Marina Russo, Paola Dugo, Luigi Mondello

Oral Communication

**874** Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014

Uso di tecniche cromatografiche multidimensionali preparative per l'isolamento di composti puri da campioni complessi

Mariarosa Maimone, Sebastiano Pantò, Danilo Sciarrone, Paola Dugo, Luigi Mondello

Oral Communication

**875** Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014

Adriana Arigò, Marina Russo, Maria Luisa Calabrò, Paola Dugo, Luigi Mondello



Valorizzazione degli scarti dell'industria agroalimentare mediante l'isolamento di molecole bioattive

Oral Communication

**876** Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014

Anna Rocco, Chiara Fanali, Giovanni D'Orazio, Laura Dugo, Luigi Mondello, Zeineb Aturki

Determinazione dei principali flavonoidi in integratori e matrici alimentari per mezzo della cromatografia liquida nano

Oral Communication

**877** The 18<sup>th</sup> Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2015), Tel Aviv, Israel, January 14-15, 2015

L.Mondello

Comprehensive Liquid Chromatography (LC×LC) and Comprehensive Gas Chromatography (GC×GC) coupled to MS/MS for the Analysis of Environmental Samples. Advantages and Disadvantages.

Invited Oral Communication

**878** The 18<sup>th</sup> Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2015), Tel Aviv, Israel, January 14-15, 2015

Peter Q. Tranchida, Flavio A. Franchina, Paola Dugo, Luigi Mondello

Comprehensive Two-Dimensional Gas Chromatography Combined with Single and Triple Quadrupole Mass Spectrometry: Powerful Unified Tools for the Analysis of Food Volatiles

Poster Communication

**879** The 18<sup>th</sup> Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2015), Tel Aviv, Israel, January 14-15, 2015

Peter Tranchida, Mariosimone Zoccali, Flavio Franchina, Luigi Mondello,

A powerful four-dimensional separation-science tool: on-line liquid chromatography-comprehensive two dimensional gas chromatography-triple quad mass spectrometry

Poster Communication

- 880** The 18<sup>th</sup> Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2015), Tel Aviv, Israel, January 14-15, 2015  
Marina Russo, Paola Donato, Francesco Cacciola, Debora Tomasini, Luigin Mondello  
A comprehensive reversed-phase liquid chromatography method with segmented gradient for the analysis of environmental samples  
Poster Communication
- 881** Ritmare. Acquicoltura. Pesce allevato: qualità e sicurezza. Messina, 20 Marzo 2015  
Luigi Mondello, Paola Donato  
Importanza del Contenuto Lipidico nella Catena Alimentare: dagli Organismi Marini all'Uomo  
Oral Communication
- 882** Emerging Separation Technologies (ChromSoc), London, March 26, 2015.  
Luigi Mondello, Peter Q. Tranchida, Flavio A. Franchina, Mariosimone Zoccali  
"Comprehensive 2D GC combined with novel MS instrumentation: powerful unified tools for the analysis of complex samples".  
Invited Oral Communication
- 883** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Luigi Mondello  
Comprehensive Chromatography (GCxGC, LCxLC, LC-GCxGC) coupled to MS/MS for the Analysis of Environmental Samples  
Invited Oral Communication
- 884** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
F.A. Franchina, M. Maimone, P.Q. Tranchida, G. Purcaro, D. Sciarrone, L. Mondello  
Flow Modulated Comprehensive 2D Gas Chromatography: A versatile, low-costing and powerful instrument for a deeper insight into food contaminations and complex samples  
Poster Communication
- 885** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
A Powerful Five-Dimensional Separation-Science Tool: On-line Combination of Liquid Chromatography-Large Volume Injection-Comprehensive Two-Dimensional Gas Chromatography-Triple Quad Mass Spectrometry  
M. Zoccali, P. Q. Tranchida, P. Dugo, D. Sciarrone, G. Purcaro, L. Mondello  
Poster Communication

- 886** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
S. Pantò, M. Maimone, D. Sciarrone, G. Purcaro, L. Mondello  
Development of a vapour phase Fourier-transform infrared spectroscopy database for the unequivocal identification of volatiles in complex mixtures  
Poster Communication
- 887** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Chromatoplusspectra and FFNSC Mass Spectral Database: A Powerful Coupling of a Unique Chromatographic Software with Integrated Automated LRI Algorithm Function Exploiting the FFNSC MS Database  
S. Pantò, G. Purcaro, G. Micalizzi, L. Mondello  
Poster Communication
- 888** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
NanoLC coupled to an EI-MS system for a fast and affordable identification of semi and non volatile compounds  
F. Rigano, D. Sciarrone, G. Purcaro, L. Mondello  
Poster Communication
- 889** Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Use of a Versatile Multidimensional LC-GC-GC-GC-PREP System for the rapid and highly Pure Collection of Volatile Components  
S. Pantò, D. Sciarrone, M. Maimone, G. Purcaro, L. Mondello  
Poster Communication
- 890** 1<sup>st</sup> MS-Wine Day, Bagno a Ripoli, Firenze, April 16-17, 2015  
Comprehensive two-dimensional liquid chromatography for determination of polyphenols in Sicilian red wines  
Francesco Cacciola, Paola Donato, Paola Dugo, Luigi Mondello  
Invited Oral Communication
- 891** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Multidimensional Gas Chromatographic Techniques Applied to the Analysis of Lipids from Marine Species of the Mediterranean Sea  
R. Costa, A. Albergamo, M. Oteri, M. Piparo, G. Purcaro, P. Dugo, L. Mondello  
Invited Oral Communication
- 892** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Potentiality of the GCxGC Technique for Quality and Authenticity Assessment of Olive Oil  
G. Purcaro, L. Mondello, L. Conte  
Invited Oral Communication

- 893** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Chemical Characterization of Chia (*Salvia Hispanica*) Seed Oil  
M. Beccaria, F. Rigano, M. Oteri, G. Bartolomeo, V. Musarra, G. Tripodo, D. Sciarrone, R. Costa, P. Dugo, G. Purcaro, L. Mondello  
Poster Communication
- 894** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Determination of the Triacylglycerol Fraction in Fish Oil by Comprehensive Liquid Chromatography Techniques with the Support of Gas Chromatography and Mass Spectrometry  
R. Costa, M. Beccaria, F. Cacciola, M. Oteri, F. Franchina, G. Purcaro, P. Dugo, L. Mondello  
Poster Communication
- 895** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Reliability of the  $\Delta$ ECN42 Limit and Global Method for Olive Oil Purity Assessment Using Different Analytical Approaches  
G. Purcaro, M. Beccaria, M. Oteri, A. Marra, D. Mangraviti, L.S. Conte, L. Mondello  
Poster Communication
- 896** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Development of a NanoLC-EI-MS Method for the Characterization of the Free Fatty Acid Fraction in Mussels *Mytilus galloprovincialis*  
F. Rigano, A. Albergamo, M. Beccaria, S. Salivo, D. Sciarrone, G. Purcaro, P. Q. Tranchida, L. Mondello  
Poster Communication
- 897** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Detailed Characterization of the Unsaponifiable Fraction of Milk and Human Plasma Lipids by Using Enhanced Peak Capacity Chromatography and High-Resolution Mass Spectrometry  
S. Salivo, M. Piparo, R. Costa, P.Q. Tranchida, P. Dugo, L. Mondello  
Poster Communication
- 898** 6<sup>th</sup> AOCS Annual Meeting and Industry Showcases, Orlando, Florida, USA, May 3-6, 2015  
Improvement in MOAH Quantification in Edible Oils: Retention of Olefins by Using a Novel Liquid-Liquid Gas Chromatography (LC-LC-GC) Method  
M. Zoccali, L. Barp, G. Purcaro, D. Sciarrone, P. Q. Tranchida, L. Mondello  
Poster Communication

- 899** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
Comprehensive Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry for Targeted, Untargeted, and Post-targeted Lipidomics  
Luigi Mondello, Francesca Rigano, Marco Beccaria, Paola Donato, Paola Dugo  
Invited Oral Communication
- 900** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
Low-flow modulation comprehensive 2D GC-high resolution ToF MS: a powerful tool for untargeted, pre- and post-targeted analysis  
Peter Q. Tranchida, Simona Salivo, Flavio A. Franchina, Luigi Mondello  
Oral Communication
- 901** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
GC×GC: a powerful tool for a comprehensive evaluation of food quality, authenticity, and safety  
Giorgia Purcaro, Laura Barp, Mariosimone Zoccali, Flavio A. Franchina, Peter Q. Tranchida, Sabrina Moret, Lanfranco S. Conte, Luigi Mondello  
Oral Communication
- 902** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
NanoLC coupled to an EI-MS system for a fast and reliable identification of lipid components  
Francesca Rigano, Giorgia Purcaro, Rosaria Costa, Danilo Sciarrone, Luigi Mondello  
Oral Communication
- 903** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
On-line combination of liquid chromatography-large volume injection-comprehensive two-dimensional gas chromatography-triple quad mass spectrometry: a powerful 5-D separation-science tool  
Mariosimone Zoccali, Peter Q. Tranchida, Paola Dugo, Giorgia Purcaro, Luigi Mondello  
Oral Communication
- 904** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
Concept of (low-)flow modulation comprehensive two-dimensional gas chromatography under sub-ambient, ambient and supra-ambient pressure outlet conditions  
Flavio A. Franchina, Mariarosa Maimone, Peter Q. Tranchida, Luigi Mondello  
Oral Communication

- 905** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
(Low-)flow modulation comprehensive two-dimensional gas chromatography for the determination of suspected allergens in fragrances  
Marianrosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Peter Q. Tranchida and Luigi Mondello  
Poster Communication
- 906** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
Performance evaluation of a novel helium ionization detector coupled to (low-)flow modulation comprehensive two-dimensional gas chromatography  
Flavio A. Franchina, Marianrosa Maimone, Danilo Sciarrone, Giorgia Purcaro, Peter Q. Tranchida and Luigi Mondello  
Poster Communication
- 907** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
On-line liquid chromatography for efficient removal of olefins prior to the gas chromatography determination of mineral oil contamination in vegetable oils  
Mariosimone Zoccali, Laura Barp, Giorgia Purcaro, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 908** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
Direct immersion solid-phase microextraction followed by fast gas chromatography coupled with triple quadrupole mass spectrometry for the analysis of phthalate esters in vegetable oils  
Laura Barp, Flavio A. Franchina, Mariosimone Zoccali, Danilo Sciarrone, Peter Q. Tranchida, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 909** The 39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) & The 12<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 17-21, 2015  
A novel multidimensional LC-GC-GC-GC-preparative chromatographic system for the rapid isolation of highly pure volatiles  
Sebastiano Pantò, Danilo Sciarrone, Peter Q. Tranchida, Marianrosa Maimone, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 910** Analytical and Technical Application of Supercritical Fluids'15, Budapest, May 21, 2015  
Supercritical Chromatographic Separation of Pepper Carotenoids  
M. Utczás, I. Bonaccorsi, V. Infrerra, P. Donato, P. Dugo, L. Mondello  
Oral Communication

- 911** ASMS 2015, 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, Missouri, USA, May 31 - June 4, 2015  
On-line LC×LC-MS/MS: a Powerful Unified Separation-science Tool  
Paola Donato, Francesca Rigano, Ambrogina Albergamo, Francesco Cacciola, Marco Beccaria, Paola Dugo, Luigi Mondello  
Poster Communication
- 912** MASSA 2015, Alghero, Italy, June 10-12, 2015  
Gas Chromatography Carbon Isotope Ratio Mass Spectrometry (GC-C-IRMS) for Samples' Traceability  
Luisa Schipilliti, Ivana Bonaccorsi, Giorgia Purcaro and Luigi Mondello  
Invited Oral Communication
- 913** Flavours and Fragrances Day, Nice, France, June 19, 2015  
Advanced On-Line LC-GC-GC-GC Preparative System for the Isolation of High Amounts of Pure Components  
Luigi Mondello, Danilo Sciarrone, Sebastiano Pantò, and Giorgia Purcaro  
Invited Oral Communication
- 914** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
Elucidation of the carotenoid composition in food using one- and two-dimensional chromatography coupled to photodiode array and mass spectrometry detection  
Luigi Mondello  
Invited Oral Communication
- 915** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
Design of various gradient elutions in reversed phase×reversed phase liquid chromatography as a powerful tool in complex real-world samples  
Francesco Cacciola, Daniele Giuffrida, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Oral Communication
- 916** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
Bioactives screening in fruits and vegetables by liquid chromatography coupled to photo-diode array and mass spectrometry detection  
Francesco Cacciola, Ivana Bonaccorsi, Margita Utczas, Francesca Satira, Marina Russo, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Poster Communication
- 917** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
The coupling of partially porous and monodisperse material for total lipid screening by comprehensive liquid chromatography-tandem mass spectrometry  
Paola Donato, Rosaria Costa, Marco Beccaria, Francesco Cacciola, Francesca Rigano, Paola Dugo, Luigi Mondello  
Poster Communication

- 918** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
HPLC/PDA/MS and preparative HPLC-HPLC/PDA/MS for the characterization and isolation of limonoids in bergamot (*Citrus bergamia* Risso)  
Marina Russo, Adriana Arigò, Paola Dugo, Maria Luisa Calabrò, Paola Donato, Luigi Mondello  
Poster Communication
- 919** HPLC 2015 – 42<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Geneva, Switzerland, June 21-25, 2015  
Development of a nanoLC-EI-MS system for a fast and reliable characterization of LC-amenable compounds  
Francesca Rigano , Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 920** RDPA 2015, Recent Developments in Pharmaceutical Analysis, Perugia, Italy, June 28-July 1, 2015  
Comprehensive Liquid Chromatography-Tandem Mass Spectrometry for a Comprehensive Analysis of Lipids in Biological Systems  
Paola Donato, Francesca Rigano, Ambrogina Albergamo, Francesco Cacciola, Marco Beccaria, Paola Dugo, Luigi Mondello  
Invited Oral Communication
- 921** RDPA 2015, Recent Developments in Pharmaceutical Analysis, Perugia, Italy, June 28-July 1, 2015  
Identification of Potential Nutraceuticals in Waste By-products by liquid chromatography coupled to photo-diode array and mass spectrometry detection  
F. Cacciola, I. Bonaccorsi, M. Utczas, F. Satira, M. Russo, D. Giuffrida, P. Donato, P. Dugo, L. Mondello  
Poster Communication
- 922** RDPA 2015, Recent Developments in Pharmaceutical Analysis, Perugia, Italy, June 28-July 1, 2015  
Screening and Isolation of *Citrus* Bioactives by Preparative Liquid Chromatography Coupled to Photo-diode array and Mass Spectrometry Detection  
M. Russo, A. Arigò, P. Dugo, M. L. Calabrò, P. Donato, L. Mondello  
Poster Communication
- 923** RDPA 2015, Recent Developments in Pharmaceutical Analysis, Perugia, Italy, June 28-July 1, 2015  
Applications of comprehensive two-dimensional liquid chromatography-tandem mass spectrometry in the field of lipidomics  
P. Donato, R. Costa, M. Beccaria, F. Cacciola, F. Rigano, P. Dugo, L. Mondello  
Poster Communication
- 924** 21<sup>st</sup> International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30<sup>th</sup> - July 3<sup>rd</sup>, 2015  
LC-GC-GC-GC-prep: a new powerful and versatile system for the collection of highly pure volatile from complex samples  
S. Pantò, D. Sciarrone, G. Purcaro, L. Mondello



## Oral Communication

- 925** 21<sup>st</sup> International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30<sup>th</sup> - July 3<sup>rd</sup>, 2015  
Veronica Infrerra, Marco Beccaria, Paola Donato, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Lipidomic analysis of biological samples by using one- and multidimensional chromatography coupled to mass spectrometry  
Oral Communication
- 926** 21<sup>st</sup> International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30<sup>th</sup> - July 3<sup>rd</sup>, 2015  
Luisa Schipilliti, Sebastiano Pantò, Ivana Bonaccorsi, Giorgia Purcaro, Luigi Mondello  
Carbon isotope ratio analysis for the evaluation of vanilla flavour in foodstuffs  
Poster Communication
- 927** 250<sup>th</sup> ACS National Meeting & Exposition, Boston, Massachusetts, USA, August 16<sup>th</sup>-20<sup>th</sup>, 2015  
Application of different analytical systems for the characterization of food bioactives  
Daniele Giuffrida, Francesco Cacciola, Margita Utczas, Marco Beccaria, Paola Donato, Paola Dugo, and Luigi Mondello  
Oral Communication
- 928** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
An online multidimensional liquid chromatography platform for comprehensive lipid profiling by tandem mass spectrometry  
Paola Donato, Francesca Rigano, Marco Beccaria, Rosaria Costa, Paola Dugo and Luigi Mondello  
Oral Communication
- 929** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Use of the comprehensive gas chromatography (GC×GC) approach in food analysis  
Giorgia Purcaro, Laura Barp, Flavio Franchina, Peter Q. Tranchida and Luigi Mondello  
Poster Communication
- 930** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
(Low-)flow modulation comprehensive two-dimensional gas chromatography under subambient, ambient and supra-ambient pressure outlet conditions  
Flavio A. Franchina, Giorgia Purcaro, Mariarosa Maimone, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 931** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Mineral oil determination in vegetable oils: an innovative on-line liquid-gas chromatography method for efficient removal of olefins  
G. Purcaro, L. Barp, M. Zoccali, D. Sciarrone, P.Q. Tranchida, L. Mondello  
Poster Communication

- 932** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Determination of suspected allergens in fragrances by using (low-)flow modulation comprehensive two-dimensional gas chromatography  
Giorgia Purcaro, Mariarosa Maimone, Flavio A. Franchina, Peter Q. Tranchida and Luigi Mondello  
Poster Communication
- 933** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Multidimensional LC-GC-GC-GC-preparative chromatography for the fast isolation of highly pure volatiles  
S. Pantò, D. Sciarrone, M. Maimone, G. Purcaro, L. Mondello  
Poster Communication
- 934** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
A fast and green chromatographic technique for carotenoid identification in foodstuffs  
I. Bonaccorsi, V. Inferrera, M. Utczas, F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Poster Communication
- 935** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Simultaneous Determination of Bioactives and Contaminants in a Wine Sample by Comprehensive Liquid Chromatography-Triple Quadrupole Mass Spectrometry  
Paola Donato, Francesca Rigano, Francesco Cacciola, Paola Dugo and Luigi Mondello  
Poster Communication
- 936** EUROANALYSIS 2015, Bordeaux, France, September 6<sup>th</sup>-10<sup>th</sup>, 2015  
Comprehensive lipid profiling of seafood samples by comprehensive liquid chromatography-mass spectrometry  
P. Donato, R. Costa, M. Beccaria, P. Dugo, L. Mondello  
Poster Communication
- 937** 46th International Symposium on Essential Oils, Lublin September 13-16th, 2015  
Characterization and isolation of limonoids in by-products of Citrus essential oils industry by means of liquid chromatography  
Paola Dugo, Marina Russo, Adriana Arigò, Maria Luisa Calabrò, Luigi Mondello  
Invited Oral Communication

- 938** 46th International Symposium on Essential Oils, Lublin September 13-16th, 2015  
Simultaneous multi collection in each chromatographic dimension of highly pure volatiles from complex samples exploiting a versatile LC-GC-GC-GC-prep  
D. Sciarrone, S. Pantò, L. Mondello  
Oral Communication
- 939** 46th International Symposium on Essential Oils, Lublin September 13-16th, 2015  
Characterization of essential oils and plant extracts secondary metabolites by using Gas Chromatography hyphenated to Carbon Isotope Ratio Mass Spectrometry (GC-C-IRMS)  
P. Dugo, L. Schipilliti, I. Bonaccorsi, L. Mondello  
Poster Communication
- 940** 46th International Symposium on Essential Oils, Lublin September 13-16th , 2015  
Traceability of vanilla flavoured food by means Head Space-Solid Phase Micro Extraction (HS-SPME) coupled to Gas Chromatography-Isotope Ratio Mass Spectrometry (GC-IRMS)  
P. Dugo, L. Schipilliti, I. Bonaccorsi, S. Farnetti, L. Mondello  
Poster Communication
- 941** XXV Congresso della Divisione di Chimica Analitica della Società Chimica Italiana,  
Trieste, 15-17 Settembre 2015  
Qualitative and semi-quantitative analysis of phospholipids in rat liver mitochondria samples by HPLC-IT/TOF-MS  
C. Fanali, L. Dugo, A.M. Sardanelli, A. Gnoni, F. Cacciola, M. Oteri, M. Beccaria, L. Mondello  
Oral Communication
- 942** Seminario GC/GC×GC acoplado a espectrometria de masas de tiempo de vuelo TOF de alta resolución, Spain, September 15-17th, 2015  
Hyphenation of high-resolution ToF MS with a GC-based separation step for the analysis of food-related analytes  
Peter Q. Tranchida, Luigi Mondello  
Oral Communication
- 943** Seminario Waters 2015 MS Technology Days, Milano, 22 Settembre 2015  
Metodi avanzati di Cromatografia accoppiata alla Spettrometria di Massa per l'analisi di Alimenti  
Luigi Mondello, Francesca Rigano, Veronica Inferrera, Marco Beccaria, Paola Donato, Paola Dugo  
Invited Oral Communication
- 944** 13th Euro Fed Lipid Congress "Fats, Oils and Lipids: New Challenges in Technology, Quality Control and Health", Florence, Italy, September 27-30th 2015

- Determination of the Triacylglycerol Fraction in Fish Oil by Ultra Performance and Comprehensive Liquid Chromatography Techniques with the Support of Gas Chromatography and Mass Spectrometry Data  
Marco Beccaria, Rosaria Costa, Marianna Oteri, Francesco Cacciola, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Oral Communication
- 945** 13th Euro Fed Lipid Congress "Fats, Oils and Lipids: New Challenges in Technology, Quality Control and Health", Florence, Italy, September 27-30th 2015  
Advanced multidimensional gas chromatographic techniques coupled to mass spectrometry for the analysis of the saponifiable and unsaponifiable fractions of lipids  
Franchina Flavio A., Salivo Simona, Piparo Marco, Purcaro Giorgia, Tranchida Peter Q., Mondello Luigi  
Poster Communication
- 946** 13th Euro Fed Lipid Congress "Fats, Oils and Lipids: New Challenges in Technology, Quality Control and Health", Florence, Italy, September 27-30th 2015  
Analytical methods for lipid profiling in biological samples  
Veronica Inferrera, Marco Beccaria, Francesca Rigano, Flavio A. Franchina, Paola Donato, Giorgia Purcaro, Paola Dugo  
Poster Communication
- 947** 13th Euro Fed Lipid Congress "Fats, Oils and Lipids: New Challenges in Technology, Quality Control and Health", Florence, Italy, September 27-30th 2015  
Elucidation of the free fatty acid profile in mussels *M. galloprovincialis* by a NanoLC-EI-MS system  
Francesca Rigano, Ambrogina Albergamo, Marco Beccaria, Simona Salivo, Danilo Sciarrone, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 948** 4th MS Food Day, Foggia, Italy, October 7-9, 2015  
Hyphenation of novel MS devices with a powerful multidimensional GC separation step for the investigation of foods  
Peter Q. Tranchida and Luigi Mondello  
Oral Communication
- 949** XVIII Euro Food Chem, Madrid, Spain, October 13-16, 2015  
Luigi Mondello  
Recent advances in chromatographic techniques hyphenated to mass spectrometry for food quality assessment  
Invited Oral Communication
- 950** XVIII Euro Food Chem, Madrid, Spain, October 13-16, 2015  
Evaluation of complementary analytical systems for analysis of food carotenoids  
Daniele Giuffrida, Francesco Cacciola, Margita Utczas, Domenica Mangraviti, Marco Beccaria, Paola Dugo, and Luigi Mondello  
Poster Communication

- 951** XV Reunión Científica Sociedad Española de Cromatografía y Técnicas Afines (SECYTA 2015), Castellón de la Plana, Spain, October 27-30, 2015  
Comprehensive Two-Dimensional Liquid Chromatography as a powerful tool For Food Applications  
Paola Dugo, Francesco Cacciola, Luigi Mondello  
Invited Oral Communication
- 952** 7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), Czech Republic, Prague, 3-6 November 2015  
Luigi Mondello  
Comprehensive chromatography (GC×GC, LC×LC) techniques coupled to mass spectrometry for the analysis of food samples  
Invited Oral Communication
- 953** 7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), Czech Republic, Prague, 3-6 November 2015  
Francesco Cacciola, Luigi Mondello  
Lipidomic analysis by using one- and multidimensional chromatography coupled to mass spectrometry  
Invited Oral Communication
- 954** 7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), Czech Republic, Prague, 3-6 November 2015  
Sebastiano Pantò, Danilo Sciarrone, Mariarosa Maimone, Paola Dugo, Luigi Mondello  
Multidimensional chromatographic techniques (LC-GC-GC-GC-prep) for the collection of pure volatile components from complex samples  
Oral Communication
- 955** 7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), Czech Republic, Prague, 3-6 November 2015  
Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Reversed phase×reversed phase liquid chromatography as a powerful analytical technique in the analysis of complex food samples  
Poster Communication
- 956** 7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), Czech Republic, Prague, 3-6 November 2015  
Adriana Arigò, Marina Russo, Ivana Bonaccorsi, Maria Luisa Calabrò, Paola Dugo, Luigi Mondello  
Nutraceuticals in blood orange juice and by-products  
Poster Communication
- 957** 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Luigi Mondello, Sebastiano Pantò, Danilo Sciarrone  
Preparative chromatography techniques for the isolation of pure standard components from natural samples  
Invited Oral Communication

- 958** 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Peter Q. Tranchida, Mariarosa Maimone, Flavio A. Franchina, Luigi Mondello  
Analysis of plant and marine products by using (low-)flow modulated comprehensive 2D gas chromatography-mass spectrometry  
Poster Communication
- 959** 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Peter Q. Tranchida, Mariarosa Maimone, Flavio A. Franchina, Luigi Mondello  
Comprehensive 2D GC coupled to rapid triple quadrupole mass spectrometry for the simultaneous untargeted (MS database matching & LRI-filtering) and targeted (MRM transitions) analysis of essential oils  
Poster Communication
- 960** 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Mariarosa Maimone, Peter Q. Tranchida, Luigi Mondello  
Reliable identification of plant and marine constituents by using dedicated MS databases  
Poster Communication
- 961** 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Mariarosa Maimone, Peter Q. Tranchida, Luigi Mondello  
LRI-filtered identification of essential oil constituents by using a novel MS database  
Poster Communication
- 962** Waters Users Meeting on SFC, Purification and Related Technologies, Prague, December 4, 2015  
Luigi Mondello, Veronica Inferrera, Paola Donato, Paola Dugo  
UPC<sup>2</sup> Coupled to Mass Spectrometry for Complex Analysis of Foodstuff  
Invited Oral Communication
- 963** Convegno CNR Dagli ioni metastabili (1945) alle tecniche MS<sup>n</sup>: stato dell'arte, novità, innovazione e strumentazione, Roma, 15 dicembre 2015  
Mariarosa Maimone, Flavio A. Franchina, Peter Q. Tranchida and Luigi Mondello  
Hyphenation of novel MS devices with a powerful multidimensional GC pre-separation step for the investigation of complex samples  
Oral Communication
- 964** 7th Annual Multidimensional Chromatography Workshop, Toronto, Canada, January 5-6, 2016  
Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Reversed phase × reversed phase liquid chromatography as a powerful analytical tool in the analysis of complex food samples  
Invited Oral Communication

- 965** 7th Annual Multidimensional Chromatography Workshop, Toronto, Canada, January 5-6, 2016  
Flavio A. Franchina, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Novel Ultra-Fast Quad and Triple Quad Detectors for GC×GC  
Invited Oral Communication
- 966** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Paola Dugo, Paola Donato, Francesco Cacciola, Marco Beccaria, Veronica Inferrera, Francesca Rigano, Luigi Mondello  
Hyphenated LC-MS and LC×LC-MS Techniques Reduce the Need for Extensive Sample Preparation for Accurate Analysis of Target Compounds  
Invited Oral Communication
- 967** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Paola Dugo, Paola Donato, Marco Beccaria, Francesco Cacciola, Luigi Mondello  
Hyphenated Chromatographic Techniques for Complex Analysis of Lipid Samples  
Invited Oral Communication
- 968** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Paola Dugo  
Advanced Chromatographic and Mass Spectrometric Approaches for Phospholipid Analysis  
Invited Oral Communication
- 969** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Peter Q. Tranchida, Flavio A. Franchina, Mariarosa Maimone, Luigi Mondello  
Flow-modulation comprehensive two-dimensional gas chromatography-mass spectrometry using  $\approx 4 \text{ mL min}^{-1}$  gas flows  
Oral Communication
- 970** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Peter Q. Tranchida  
Screening and quantification of newly-regulated allergens in perfumes by using GC×GC-qMS  
Invited Oral Communication
- 971** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Danilo Sciarrone, Sebastiano Panto, Paola Dugo, Luigi Mondello  
Isolation of unknown molecules from plant extracts exploiting a multidimensional GC-prep system followed by NMR, MS and FTIR for structural identification  
Oral Communication

- 972** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Mariarosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Peter Q. Tranchida and Luigi Mondello  
(Low-)flow modulation comprehensive two-dimensional gas chromatography for the determination of suspected allergens in fragrances  
Poster Communication
- 973** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Mariarosa Maimone, Flavio A. Franchina, Peter Q. Tranchida, Luigi Mondello  
Concept of (low-)flow modulation comprehensive two-dimensional gas chromatography under sub-ambient, ambient and supra-ambient pressure outlet conditions  
Poster Communication
- 974** International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Mariosimone Zoccali, Laura Barp, Marco Beccaria, Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello  
Efficient on-line liquid chromatography removal of olefin interferences prior to the gas chromatography determination of mineral oil contamination in vegetable oils  
Poster Communication
- 975** 27th MassSpec Forum Vienna, February 23-24, 2016  
Simona Salivo, Yuzo Yamazaki, Peter Quinto Tranchida, Luigi Mondello  
MALDI imaging with high spatial resolution for the direct analysis of phospholipids in rat brain tissue  
Oral Communication
- 976** IDF Dairy Science & Technology Symposia 2016, Dublin, April 11-13<sup>th</sup>, 2016.  
Gas chromatography-olfactometry in food flavor analysis  
Danilo Sciarrone and Luigi Mondello  
Invited Oral Communication
- 977** 1° Isotope ratio mass spectrometry (IRMS) Day, S.Michele all'Adige (TN), Italy, May, 9-11 2016  
Danilo Sciarrone and Luigi Mondello  
High Efficiency Multidimensional Gas Chromatography Coupled to Isotope Ratio Mass Spectrometry and Quadrupole Mass Spectrometry Simultaneous Detection  
Oral Communication
- 978** 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4, 2016  
G. Purcaro, F.A. Franchina, L. Barp, P.Q. Tranchida, and L. Mondello  
Elucidation of minor components in vegetable oils by using comprehensive two-dimensional gas chromatography: A “green” evolution  
Poster Communication



- 979** 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4, 2016  
M. Beccaria, V. Inferrera, F. Rigano, P. Dugo, G. Purcaro, L. Mondello  
Lipidomics-type analysis of human plasma by UHPLC-qMS  
Poster Communication
- 980** Gordon Conference, Lucca, Italy, May 22-27, 2016  
Daniele Giuffrida, Francesco Cacciola, Margita Utczas, Domenica Mangraviti,  
Marco Beccaria, Paola Dugo, Luigi Mondello  
Evaluation of complementary analytical systems for analysis of food carotenoids  
Poster Communication
- 981** EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus,  
May 24 -27, 2016  
Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Comprehensive liquid chromatography-triple quadrupole mass spectrometry for  
simultaneous determination of bioactives and pesticides in wine samples  
Invited Oral Communication
- 982** EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus,  
May 24 -27, 2016  
Mariosimone Zoccali, Giorgia Purcaro, Antonino Schepis, Peter Q. Tranchida,  
Francesco Cacciola, Luigi Mondello  
Miniaturized QuEChERS methodologies coupled to fast gas chromatography-  
triple quadrupole mass spectrometry for the determination of pesticides in  
different vegetables  
Poster Communication
- 983** EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus,  
May 24 -27, 2016  
Margita Utczas, Mariosimone Zoccali, Giorgia Purcaro, Francesco Cacciola,  
Luigi Mondello  
CHROMATOPLUS SPECTRA and PESTICIDE mass spectral database: a  
powerful coupling of a unique chromatographic software with integrated  
automated LRI algorithm function exploiting the PESTICIDE MS database  
Poster Communication
- 984** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC  
Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Luigi Mondello  
Comprehensive 2D gas chromatography. A 17-year “balance”  
Invited Oral Communication
- 985** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC  
Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Peter Q. Tranchida, Flavio A. Franchina, Giorgia Purcaro, Mariarosa Maimone,  
Simona Salivo, Luigi Mondello  
Hyphenations of (low-)flow modulation comprehensive 2D GC with single  
quadrupole, triple quadrupole and high-resolution time-of-flight mass  
spectrometry  
Invited Oral Communication

- 986** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Paola Dugo Francesco Cacciola, Paola Donato, Luigi Mondello  
Recent applications of LC×LC to natural products analysis  
Invited Oral Communication
- 987** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesco Cacciola, Domenica Mangraviti, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello, Yukari Nishizawa-Brennen, Karen M. Draths, John W. Frost, Hernan J. Cortes  
In Pursuit of the Microbosphere  
Invited Oral Communication
- 988** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Comprehensive two-dimensional liquid chromatography using RP-UHPLC as the second dimension separation for carotenoid analysis  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Francesco Cacciola, Kevin Schug, Paola Dugo, Luigi Mondello  
Oral Communication
- 989** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
High efficiency multidimensional gas chromatography coupled to isotope ratio mass spectrometry and quadrupole mass spectrometry simultaneous detection  
Oral Communication
- 990** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Antonino Schepis, Mariosimone Zoccali, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Quantification of pesticides in food samples by means of miniaturized QuEChERS approach coupled to fast GC-QqQ MS  
Poster Communication
- 991** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Giorgia Purcaro, Flavio A. Franchina, Laura Barp, Peter Q. Tranchida, Luigi Mondello  
Optimization of in-pipette solid-phase extraction for determination of minor components in vegetable oils by GC×GC-FID/MS  
Poster Communication

- 992** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Maria Elisabete Machado, Marco Piparo, Flavio A. Franchina, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Luigi Mondello  
Use of comprehensive two-dimensional gas chromatography and tandem mass spectrometry for the targeted and untargeted analysis of petrochemical samples  
Poster Communication
- 993** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Thiago R. Bjerk, Mariarosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Danilo Sciarrone, Claudia Zini, Peter Q. Tranchida, Luigi Mondello  
(Low-)flow modulation comprehensive two-dimensional gas chromatography experiments under different outlet pressure conditions  
Poster Communication
- 994** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Flavio A. Franchina, Laura Barp, Mariosimone Zoccali, Giorgia Purcaro, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello  
Phthalic acid esters determination in vegetable oils by using SPME followed by fast GC coupled with triple quadrupole MS  
Poster Communication
- 995** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Mariosimone Zoccali, Margita Utczas, Giorgia Purcaro, Peter Q. Tranchida, Kevin A.A. Schug, Luigi Mondello  
Flow-modulated comprehensive 2D gas chromatography combined with vacuum ultraviolet detector for the analysis of complex mixture  
Poster Communication
- 996** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Veronica Inferrera, Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Impact of convergence chromatography coupled to time-of-flight mass spectrometry on lipid analysis: applications to triacylglycerol fingerprinting in edible oils  
Poster Communication
- 997** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Marco Beccaria, Giorgia Purcaro, Marianna Oteri, Giuseppe Micalizzi, Paola Dugo, Luigi Mondello  
Analysis of lipid profile in human lipid storage myopathies  
Poster Communication

- 998** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Marianna Oteri, Marco Beccaria, Giorgia Purcaro, Giuseppe Micalizzi, Ivana L. Bonaccorsi, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Evaluation of the lipid profile of diary products during and after their shelf-life  
Poster Communication
- 999** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Miroslava Zelena, Laurent Dufosse, Daniele Giuffrida, Francesco Cacciola, Mekala Venkat, Mireille Fouillaud, Emmanuelle Girard-Valenciennes, Lenka Ceslova, Paola Dugo, Luigi Mondello  
Azaphilones pigments from *Talaromyces Albobiverticillius*  
Poster Communication
- 1000** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Giuseppe Micalizzi, Margita Utczas, Giorgia Purcaro, Danilo Sciarrone, Luigi Mondello  
Exploitation of different techniques for a reliable identification of unknown compounds to be added into a dedicated database fro the flavor and fragrance field  
Poster Communication
- 1001** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Margita Utczas, Giuseppe Micalizzi, Giorgia Purcaro, Luigi Mondello  
Embedded of the linear retention index information within a dedicated MS spectra database to boost the identification reliability of complex samples in the flavor and fragrance field  
Poster Communication
- 1002** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Paola Donato, Francesca Rigano, Ambrogina Albergamo, Francesco Cacciola, Marco Beccaria, Paola Dugo, Luigi Mondello  
Comprehensive lipid profiling in mussel samples by comprehensive liquid chromatography-tandem mass spectrometry  
Poster Communication
- 1003** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Comprehensive two-dimensional liquid chromatography fro characterization of food carotenoids  
Domenica Mangraviti, Francesco Cacciola, Daniele Giuffrida, Margita Utczas, Paola Donato, Paola Dugo, Luigi Mondello  
Poster Communication

- 1004** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Francesco Cacciola, Paola Dugo, Luigi Mondello  
On-line coupling of ultra performance convergence chromatography and ultra high pressure liquid chromatography for boosting orthogonality in comprehensive separations  
Poster Communication
- 1005** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesca Rigano, Sara Stead, Renata Jandova, Davy Petit, Sara Farnetti, Nino Marino, Luigi Mondello  
Use of an “Intelligent knife (IKNIFE), based on the rapid evaporative ionization mass spectrometry technology for authenticity assessment of pistachio samples  
Poster Communication
- 1006** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesca Rigano, Ambrogina Albergamo, Danilo Sciarrone, Marco Beccaria, Giorgia Purcaro, Luigi Mondello  
Characterization of free fatty acid profile in mussels by Nano-LC directly coupled to electron ionization mass spectrometry  
Poster Communication
- 1007** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesca Rigano, Danilo Sciarrone, Luigi Mondello  
Building of a linear retention index system in liquid chromatography  
Poster Communication
- 1008** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Marina Russo, Francesca Rigano, Adriana Arigò, Danilo Sciarrone, Maria L. Calabrò, Paola Dugo, Luigi Mondello  
Nano-LC-EI-MS for a reliable characterization of polymethoxyflavones isolated from cold-pressed mandarin essential oil by means of a multidimensional preparative HPLC system  
Poster Communication
- 1009** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Marco Beccaria, Veronica Inferrera, Francesca Rigano, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Lipidomics-type analysis by UHPLC-Q-MS with ESI and APCI interfaces  
Poster Communication

- 1010** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Mariosimone Zoccali, Giorgia Purcaro, Masayuki Nishimura, Luigi Mondello  
On-line coupling of CO<sub>2</sub> supercritical fluid extraction chromatography coupled to triple quadrupole mass spectrometry  
Poster Communication
- 1011** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Mariosimone Zoccali, Margita Utczas, Giorgia Purcaro, Luigi Mondello  
VUV spectra database of fatty acids derivatized coupled with linear retention index approach: reliable identification tool fro complex samples  
Poster Communication
- 1012** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Mariosimone Zoccali, Giorgia Purcaro, Laura Barp, Marco Beccaria, Danilo Sciarrone, Luigi Mondello  
Efficient removal of olefin interferences by on-line liquid-liquid chromatography prioie to the gas chromatography determination of mineral oil contamination in vegetable oils  
Poster Communication
- 1013** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Danilo Sciarrone, Luigi Mondello  
Isolation of unknown molecules from plant extracts exploiting a multidimensional GC-PREP system followed by NMR, MS and FTIR for structural identification  
Poster Communication
- 1014** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesca Rigano, Marina Russo, Marianna Oteri, Paola Dugo, Luigi Mondello  
Nano-scale liquid chromatography coupled to electron ionization mass spectrometry for improving identification capability of LC-amenable compounds  
Poster Communication
- 1015** 40<sup>th</sup> International Symposium on Capillary Chromatography, and 13<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Francesca Rigano, Jody Dunstan, Francisco Ferron, Davy Petit, Luigi Mondello  
Towards ultimate sensitivity fro the analysis of persistent organic pollutants (POPs)  
Poster Communication
- 1016** 64<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, USA, June 5-9, 2016.  
Alexander Lekkas, Dimitris Papanastasiou, Emmanuel Raptakis, Francesca Rigano, Danilo Sciarrone, Luigi Mondello  
A New Interface Design for Coupling a Liquid Stream to an Electron Ionization Source

Poster Communication

- 1017** 64<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, USA, June 5-9, 2016.  
Simona Salivo, Yuzo Yamazaki, Peter Quinto Tranchida, Luigi Mondello, Omar Belgacem  
In-situ characterization of phospholipids mixture on tissue sections using wide ion gate HE-CID experiment and ASDF MS/MS Spectra  
Poster Communication
- 1018** 64<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, USA, June 5-9, 2016.  
Simona Salivo, Yuzo Yamazaki, Omar Belgacem, Peter Quinto Tranchida, Luigi Mondello  
MALDI imaging with high spatial resolution for the direct analysis of phospholipids in rat brain tissue  
Poster Communication
- 1019** HPLC 2016 – 44<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Paola Dugo, Marco Beccaria, Francesco Cacciola, Paola Donato, Luigi Mondello  
Different Approaches Using Liquid Chromatography and Mass Spectrometry for Analysis of Complex Lipid Samples  
Invited Oral Communication
- 1020** HPLC 2016 – 44<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Luigi Mondello, Francesca Rigano, Danilo Sciarrone, Marina Russo, Paola Dugo  
NanoLC Coupled to EI-MS for a Fast and Reliable Untargeted Characterization of LC-amenable Compounds  
Poster Communication
- 1021** HPLC 2016 – 44<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Marina Russo, Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Reversed phase×reversed phase liquid chromatography: a powerful analytical technique in the analysis of complex foodstuffs  
Poster Communication

- 1022** HPLC 2016 – 44<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Marina Russo, Mariosimone Zoccali, Giorgia Purcaro, Paola Dugo, Masayuki Nishimura, Luigi Mondello  
Pesticides determination by means of a green unified analytical tool  
Poster Communication
- 1023** VIII Pigments in Food, Cluj-Napoca, Romania 28 June-1 July 2016  
Daniele Giuffrida, Francesco Cacciola, Margita Utczas, Domenica Mangraviti, Ivana Bonaccorsi, Veronica Inferrera, Paola Donato, Paola Dugo, Luigi Mondello  
Application of advanced chromatography methods for the pigments characterization in fresh and overripe fruits and vegetables  
Invited Oral Communication
- 1024** ExTech & ISSS 2016, 18<sup>th</sup> International Symposium on Advances in Extraction Technologies & 22<sup>nd</sup> International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Francesca Rigano, Luigi Mondello  
Nano-scale Liquid Chromatography Hyphenated to Electron Ionization Mass Spectrometry for Enhancing Identification Capability of Complex Samples  
Invited Oral Communication
- 1025** ExTech & ISSS 2016, 18<sup>th</sup> International Symposium on Advances in Extraction Technologies & 22<sup>nd</sup> International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Francesca Rigano, Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello  
Improving Identification Reliability in Liquid Chromatography by Using a Linear Retention Index Database  
Poster Communication
- 1026** ExTech & ISSS 2016, 18<sup>th</sup> International Symposium on Advances in Extraction Technologies & 22<sup>nd</sup> International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Mariosimone Zoccali, Giorgia Purcaro, Margita Utczas, Masayuki Nishimura, Luigi Mondello  
On-line extraction and determination by means CO<sub>2</sub> supercritical fluid and triple quadrupole mass spectrometry  
Poster Communication
- 1027** ExTech & ISSS 2016, 18<sup>th</sup> International Symposium on Advances in Extraction Technologies & 22<sup>nd</sup> International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
M. Utczas, G. Micalizzi, G. Purcaro, L. Mondello  
Linear retention indices: added value to a dedicated MS spectra database for the reliable identification of complex samples in the flavour and fragrance field  
Poster Communication



- 1028** ExTech & ISSS 2016, 18<sup>th</sup> International Symposium on Advances in Extraction Technologies & 22<sup>nd</sup> International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
M. Utczas, G. Purcaro, F. Cacciola, D. Giuffrida, L. Mondello  
Variation in the volatile and non-volatile fraction in processed and native *Arbutus unedo*  
Poster Communication
- 1029** 31<sup>th</sup> International Symposium on Chromatography, Cork, Ireland, August 28<sup>th</sup> - Sept 1<sup>th</sup>, 2016  
M. Zoccali, G. Purcaro, L. Barp, M. Beccaria, D. Sciarrone, L. Mondello  
Improvement in the determination of mineral oil contamination in vegetable oils: efficient removal of olefin interferences by LC-LC-GC  
Oral Communication
- 1030** 31<sup>th</sup> International Symposium on Chromatography, Cork, Ireland, August 28<sup>th</sup> - Sept 1<sup>th</sup>, 2016.  
M. Utczas, M. Zoccali, G. Micalizzi, G. Purcaro, L. Mondello  
MS Spectra Database Of Flavours And Fragrances Coupled With Linear Retention Index Approach: Reliable Identification Of Complex Essential Oil Samples  
Poster Communication
- 1031** 1<sup>th</sup> International Symposium on Chromatography, Cork, Ireland, August 28<sup>th</sup> - Sept 1<sup>th</sup>, 2016.  
M. Zoccali, G. Purcaro, M. Nishimura, L. Mondello  
A unified analytical tool for green extraction and determination of both targeted and untargeted analysis  
Poster Communication
- 1032** 31<sup>th</sup> International Symposium on Chromatography, Cork, Ireland, August 28<sup>th</sup> - Sept 1<sup>th</sup>, 2016  
Daniele Giuffrida, Francesco Cacciola, Luigi Mondello, Miroslava Zelená, Paola Dugo, Rosana Goncalves, Lenka Česlová  
Native carotenoids composition in two Brazilian fruits from the Cerrado area  
Poster Communication
- 1033** Food Safety & Analysis Congress, Cambridge, September 6-7, 2016  
Peter Q. Tranchida, Flavio A. Franchina, Luigi Mondello  
Potential of flow-modulated 2D gas chromatography-mass spectrometry in food analysis  
Oral Communication
- 1034** 47<sup>th</sup> International Symposium on Essential Oils (ISEO2016), Nice, France, September 11-14<sup>th</sup>, 2016  
Peter Q. Tranchida, Flavio A. Franchina, Luigi Mondello  
(Low-)flow modulation comprehensive 2D GC-MS: a limited-cost ultra high resolution approach for flavor & fragrance analysis  
Invited Oral Communication

- 1035** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
P. Dugo, F. Cacciola, P. Donato, L. Mondello  
THE USE OF COMPREHENSIVE 2D LIQUID CHROMATOGRAPHY IN FOOD ANALYSIS  
Invited Oral Communication
- 1036** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
D. Sciarrone, A. Schepis, L. Mondello  
HIGH EFFICIENCY MULTIDIMENSIONAL GAS CHROMATOGRAPHY COUPLED TO ISOTOPE RATIO MASS SPECTROMETRY AND QUADRUPOLE MASS SPECTROMETRY SIMULTANEOUS DETECTION  
Oral Communication
- 1037** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
F. Cacciola, P. Donato, F. Rigano, M. Russo, P. Dugo, L. Mondello  
USE OF REVERSED PHASE×REVERSED PHASE LIQUID CHROMATOGRAPHY FOR ANALYSIS OF COMPLEX FOOD SAMPLES  
Poster Communication
- 1038** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
M. Oteri, M. Beccaria, G. Purcaro, G. Micalizzi, I. L. Bonaccorsi, F. Cacciola, P. Dugo, L. Mondello  
DAIRY PRODUCTS: LIPID EVOLUTION DURING SHELF-LIFE  
Poster Communication
- 1039** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
D. Mangraviti, F. Cacciola, D. Giuffrida , M. Utczas, P. Donato, P. Dugo, L. Mondello  
APPLICATION OF COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY FOR ANALYSIS OF FOOD CAROTENOIDS  
Poster Communication
- 1040** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
A. Schepis, M. Zoccali, G. Purcaro, P. Q. Tranchida, L. Mondello  
MINIATURIZED QuEChERS APPROACH COUPLED TO FAST GCQqQ MS FOR THE QUANTIFICATION OF PESTICIDES IN DIFFERENT VEGETABLES  
Poster Communication
- 1041** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
F. Rigano, M. Russo, P. Dugo, L. Mondello  
BUILDING OF AN LC-EI-MS DATABASE, INCLUDING LINEAR RETENTION INDEX (LRI) DATA, FOR ACHIEVING A FAST AND RELIABLE IDENTIFICATION IN LIQUID CHROMATOGRAPHY

Poster Communication

- 1042** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
A. Schepis, M. Zoccali, G. Purcaro, M. Beccaria, D. Sciarrone, L. Mondello  
QUANTIFICATION OF MINERAL OIL CONTAMINATION IN VEGETABLE OILS BY MEANS OF GAS CHROMATOGRAPHY AFTER AN EFFICIENT REMOVAL OF OLEFIN INTERFERENCES BY USING ON-LINE LIQUID-LIQUID CHROMATOGRAPHY  
Poster Communication
- 1043** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
V. Inferrera, P. Donato, F. Cacciola, P. Dugo, L. Mondello  
ULTRA PERFORMANCE CONVERGENCE CHROMATOGRAPHY FOR FOOD LIPID CHARACTERIZATION: TOWARDS FASTER AND GREEN ANALYSIS  
Poster Communication
- 1044** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
M. Maimone, F. A. Franchina, G. Purcaro, P. Q. Tranchida, L. Mondello  
(LOW-)FLOW MODULATION COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY FOR THE DETERMINATION OF SUSPECTED ALLERGENS IN FRAGRANCES  
Poster Communication
- 1045** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
G. Micalizzi, M. Utczas, G. Purcaro, D. Sciarrone, L. Mondello  
DETAILED CHARACTERIZATION OF COMPLEX NATURAL MATRICES AND IDENTIFICATION OF UNKNOWN COMPOUNDS TO BE ADDED INTO A DEDICATE DATABASE FOR THE FLAVOUR AND FRAGRANCE FIELD  
Poster Communication
- 1046** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
M. Utczas, G. Purcaro, F. Cacciola, D. Giuffrida, L. Mondello  
CHARACTERISATION OF THE VOLATILE AND NON-VOLATILE FRACTION IN PROCESSED AND NATIVE ARBUTUS UNEDO  
Poster Communication

- 1047** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
M. Utczas, G. Micalizzi, G. Purcaro, L. Mondello  
EMBEDDED LINEAR RETENTION INDICES IN MS SPECTRA  
DATABASE: RELIABLE IDENTIFICATION OF COMPLEX SAMPLES IN  
THE FLAVOUR AND FRAGRANCE FIELD  
Poster Communication
- 1048** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
D. Sciarrone, L. Mondello  
ISOLATION OF UNKNOWN MOLECULES FROM PLANT EXTRACTS  
EXPLOITING A MULTIDIMENSIONAL GC-PREP SYSTEM FOLLOWED  
BY NMR, MS AND FTIR FOR STRUCTURAL IDENTIFICATION  
Poster Communication
- 1049** XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
P. Donato, V. Inferrera, D. Giuffrida, F. Cacciola, P. Dugo, L. Mondello  
SUPERCRITICAL FLUID CHROMATOGRAPHY×ULTRA HIGH  
PRESSURE LIQUID CHROMATOGRAPHY WITH ION MOBILITY MASS  
SPECTROMETRY DETECTION  
Poster Communication
- 1050** 130<sup>th</sup> Annual Meeting & Exposition, Dallas, USA, September 18-21, 2016  
Mariosimone Zoccali and Luigi Mondello  
A unified analytical tool for green extraction and determination of both targeted  
and untargeted analysis  
Invited Oral Communication
- 1051** 130<sup>th</sup> Annual Meeting & Exposition, Dallas, USA, September 18-21, 2016  
Mariosimone Zoccali, Giorgia Purcaro, Luigi Mondello  
On-line liquid-liquid chromatography coupled to gas chromatography for the  
determination of mineral oil contamination in vegetable oils  
Poster Communication
- 1052** XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Francesco Cacciola, Paola Donato, Francesca Rigano, Luigi Mondello, Paola Dugo  
COMPREHENSIVE LIQUID CHROMATOGRAPHY-TRIPLE  
QUADRUPOLE MASS SPECTROMETRY FOR DETERMINATION OF  
WINE BIOACTIVES AND PESTICIDES  
Oral Communication
- 1053** XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Ivana Bonaccorsi, Luisa Schipilliti, Paola Dugo, Luigi Mondello  
TRACEABILITY OF FOOD INGREDIENTS BY GAS  
CHROMATOGRAPHY-COMBUSTION-ISOTOPE RATIO MASS  
SPECTROMETRY (GC-C-IRMS)

Oral Communication

- 1054** XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Marina Russo, Ivana Lidia Bonaccorsi, Luigi Mondello, Paola Dugo  
LIMONIDS IN CITRUS INDUSTRY BY-PRODUCTS,  
CHARACTERIZATION AND ISOLATION BY MEANS OF HIGH  
PRESSURE LIQUID CHROMATOGRAPHY  
Oral Communication
- 1055** BMSS Environmental & Food Analysis SIG Meeting at WWEM 2016, Telford, UK, November 02, 2016  
Peter Q. Tranchida and Luigi Mondello  
GCxGC/MS and LCxLC/MS for the analysis of environmental and food matrices  
Invited Oral Communication
- 1056** Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Impact of Ultra Performance Convergence Chromatography (UPC<sup>2</sup>) on the Analysis of Natural Products. Mono- and multidimensional Approaches  
Oral Communication
- 1057** Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Francesca Rigano, Luigi Mondello  
Use of advanced analytical systems and innovative approaches to improve identification capability in LC  
Oral Communication
- 1058** Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Mariosimone Zoccali, Luigi Mondello  
Flow-modulated comprehensive 2D gas chromatography combined with Atmospheric Pressure Gas Chromatography triple quad MS detector  
Oral Communication
- 1059** The 20th Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2017), Tel Aviv, Israel, January 24-25, 2017  
Mariosimone Zoccali, Luigi Mondello  
COMPREHENSIVE 2D GAS CHROMATOGRAPHY COMBINED WITH RAPID-SCANNING TRIPLE QUADRUPOLE MS: POWERFUL TOOLS FOR THE ANALYSIS OF COMPLEX SAMPLES  
Oral Communication

- 1060** The 20th Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2017), Tel Aviv, Israel, January 24-25, 2017  
Mariosimone Zoccali, Antonino Schepis, Luigi Mondello  
Pesticides quantification in food samples by means of scale-reduced QuEChERS approach coupled to fast GC-QqQ MS  
Poster Communication
- 1061** SMART CHEM 2017 Innovazioni nel laboratorio chimico, farmaceutico, agroalimentare, ambientale ed industriale  
Daniele Giuffrida, Francesco Cacciola, Paola Donato, Luigi Mondello, Paola Dugo  
Applicazione di metodi analitici avanzati per la caratterizzazione di pigmenti in matrici vegetali  
Oral Communication
- 1062** SMART CHEM 2017 Innovazioni nel laboratorio chimico, farmaceutico, agroalimentare, ambientale ed industriale  
Mariosimone Zoccali, Mariarosa Maimone, Luigi Mondello  
Gascromatografia multidimensionale “comprehensive” con l’utilizzo di un modulatore a flusso accoppiata ad uno spettrometro di massa a triplo quadrupolo  
Oral Communication
- 1063** Pittcon 2017 Conference & Expo, March 5-9, 2017  
McCormick Place, Chicago, IL, USA  
Mariosimone Zoccali, Daniele Giuffrida, Danilo Sciarrone, Paola Dugo and Luigi Mondello  
On-line extraction and determination of targeted carotenoids from habanero red (*Capsicum chinense*)  
Oral Communication
- 1064** Pittcon 2017 Conference & Expo, March 5-9, 2017  
McCormick Place, Chicago, IL, USA  
Francesca Rigano, Mariosimone Zoccali, Luigi Mondello  
Proposal of a linear retention index (LRI) system for improving identification reliability of triacylglycerol profiles in different lipid samples by liquid chromatography methods  
Poster Communication
- 1065** Pittcon 2017 Conference & Expo, March 5-9, 2017  
McCormick Place, Chicago, IL, USA  
Mariosimone Zoccali, Francesca Rigano, Luigi Mondello  
Improvement of mineral oil saturated and aromatic hydrocarbons determination in edible oil by liquid-liquid-gas chromatography with dual detection  
Poster Communication
- 1066** 33<sup>rd</sup> International Symposium on Microscale Separations and Bioanalysis (MSB 2017) Conference Center de Leeuwenhorst, The Netherlands, March 26-29, 2017  
Francesca Rigano, Paola Dugo, Luigi Mondello  
High throughput lipidomics by UHPLC methods combined with a novel linear retention index system for identification purposes  
Poster Communication

- 1067** 33<sup>rd</sup> International Symposium on Microscale Separations and Bioanalysis (MSB 2017) Conference Center de Leeuwenhorst, The Netherlands, March 26-29, 2017  
Mariosimone Zoccali, Daniele Giuffrida, Francesca Rigano, Paola Dugo, and Luigi Mondello  
Apocarotenoids determination in Habanero, by supercritical fluid chromatography-mass spectrometry  
Poster Communication
- 1068** Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
Luigi Mondello  
Comprehensive 2D Chromatography Coupled to QqQ-MS and a Dedicated Quali/quantitative Software  
Invited Oral Communication
- 1069** Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
M. Utczás, G. Micalizzi, P.Dugo, L. Mondello  
A unique multidimensional identification support in the flavour and fragrance field: FFNSC mass spectral database and Chromatoplus spectra chromatographic software  
Poster Communication
- 1070** Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Flow modulated comprehensive 2D gas chromatography combined with a triple-quadrupole mass spectrometer and a useful quali/quantitative tool  
Poster Communication
- 1071** Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
Francesca Rigano, Marianna Oteri, Margita Utczas, Paola Dugo, Luigi Mondello  
Building of a Linear Retention Index Database of Lipid Components in Liquid Chromatography  
Poster Communication
- 1072** Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
Francesco Cacciola, Paola Donato, Francesca Rigano, Hernan Cortes, Paola Dugo, Luigi Mondello  
Two-dimensional liquid chromatography coupled to tandem mass spectrometry for “comprehensive” characterization of food and biological samples  
Poster Communication

- 1073** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Luigi Mondello  
From two- to five-dimensional separation techniques: a personal journey towards the ultimacy of chromatography and hyphenated detection  
Invited Oral Communication
- 1074** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Paola Dugo, Luigi Mondello  
Novel strategies in comprehensive two-dimensional liquid chromatography for food analysis  
Invited Oral Communication
- 1075** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
Enhanced Isotopic Ratio Evaluation of Valuable Food Products Exploiting an MDGC-C-IRMS/qMS System  
Oral Communication
- 1076** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
On-line liquid-liquid-gas chromatography with dual detection for the determination of mineral oil saturated and aromatic hydrocarbons in vegetable oil  
Oral Communication
- 1077** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Mariarosa Maimone, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Determination of biomarkers in petrochemical samples by using FM-GC×GC-QqQ MS  
Oral Communication
- 1078** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Paola Donato, Francesco Cacciola, Francesca Rigano, Hernan Cortes, Paola Dugo, Luigi Mondello  
Comprehensive 2D LC coupled to triple quadrupole MS for enhanced resolution and sensitivity  
Poster Communication
- 1079** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Yong Foo Wong, Francesco Cacciola, Soraya Fermas, Solange Riga, Darryl James, Valeria Manzin, Brice Bonnet, Philip Marriott, Paola Donato, Paola Dugo, Luigi Mondello



Untargeted profiling of *Glycyrrhiza glabra* with comprehensive two-dimensional liquid chromatography-mass spectrometry using multi-segmented shift gradients in second dimension: expanding the metabolite coverage  
Poster Communication

- 1080** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Yong Foo Wong, Francesco Cacciola, Katia Arena, Domenica Mangraviti, Francesca Rigano, Philip John Marriott, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography-mass spectrometry with shift gradient and “multi-segmented shift gradients”. Designing an eluent strategy for the second dimension based upon chemical knowledge  
Poster Communication
- 1081** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Fast On-line extraction and determination of targeted carotenoids from food samples  
Poster Communication
- 1082** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Margita Utczás, Giuseppe Micalizzi, Mariarosa Maimone, Luigi Mondello  
Determination of potentially harmful volatiles in e-liquids exploiting a unique devoted mass spectral library with embedded linear retention indices  
Poster Communication
- 1083** The 41<sup>st</sup> International Symposium on Capillary Chromatography (ISCC) & The 14<sup>th</sup> GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Francesca Rigano, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography coupled to electron ionization mass spectrometry for a reliable identification of semi-volatile compounds  
Poster Communication
- 1084** VII Congresso Nazionale SINut, Bologna, Italy, 19-20 Maggio 2017  
M. Russo, P. Dugo, C. Fanali, L. Mondello  
Caratterizzazione di molecole biologicamente attive in frutti di bergamotto  
Oral Communication
- 1085** VII Congresso Nazionale SINut, Bologna, Italy, 19-20 Maggio 2017  
M. Russo, G. Tripodo, L. Dugo, R. Muleo, M. Zecchini, P. Dugo, L. Mondello, L. De Gara, C. Fanali  
Caratterizzazione di composti fenolici in prodotti di scarto del melograno  
Oral Communication

- 1086** Workshop IRMS UNIPR, Parma, Italy, 25-26 maggio 2017  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
Novel simultaneous detection by isotope ratio mass spectrometry and quadrupole mass spectrometry coupled to multidimensional gas chromatography  
Oral Communication
- 1087** 65<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, USA, June 4-8, 2017  
Francesca Rigano, Luigi Mondello  
Supercritical fluid chromatography coupled to electron ionization mass spectrometry: development of a new system  
Poster Communication
- 1088** 65<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, USA, June 4-8, 2017  
Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
On-line liquid-liquid-gas chromatography-FID/QqQ MS for mineral oil saturated and aromatic hydrocarbons determination in vegetable oil  
Poster Communication
- 1089** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Paola Dugo, Francesco Cacciola, Paola Donato, Luigi Mondello  
Multidimensional techniques for the analysis of food products  
Invited Oral Communication
- 1090** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Kevin A. Schug, Evelyn H. Wang, Dananjaya Kalu Appulage, Yehia Z. Baghdady, Pete C. Combe, Jorge Smith, Frances Carroll, Ty Kahler, Paola Donato, Paola Dugo, Luigi Mondello  
Further development of liquid chromatography-triple quadrupole-mass spectrometry for top-down intact protein separation and quantitation  
Invited Oral Communication
- 1091** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Online supercritical fluid extraction-supercritical fluid chromatography-mass spectrometry for carotenoids determination in red habanero peppers  
Oral Communication
- 1092** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Francesca Rigano, Paola Dugo, Luigi Mondello  
Use of a novel linear retention index system as identification tool in liquid chromatography: applications in lipidomics  
Oral Communication

- 1093** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Online supercritical fluid extraction-supercritical fluid chromatography-mass spectrometry for carotenoids determination in red habanero peppers  
Poster Communication
- 1094** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Francesca Rigano, Paola Dugo, Luigi Mondello  
Use of a novel linear retention index system as identification tool in liquid chromatography: applications in lipidomics  
Poster Communication
- 1095** HPLC 2017 - 45<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations & Related Techniques, Prague, June 18-22, 2017  
Marina Russo, Giusy Tripodo, Clementina Vitali, Paola Dugo, Rosario Muleo, Maurizio Zecchini, Luigi Mondello, Chiara Fanali, Laura De Gara  
Characterization of phenolic compounds in juices, pulps, peels and seeds of seven Italian pomegranate *cultivars* by means of RP-HPLC/PDA/MS  
Poster Communication
- 1096** Extech 2017, 19<sup>th</sup> International Symposium on Advances in Extraction Technologies, Santiago de Compostela, Spain, June 27-30, 2017  
Mariosimone Zoccali, Adriana Arigò, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Online extraction and determination by subcritical fluid extraction-supercritical fluid chromatography-mass spectrometry of bioactive compounds from food samples  
Invited Oral Communication
- 1097** Extech 2017, 19<sup>th</sup> International Symposium on Advances in Extraction Technologies, Santiago de Compostela, Spain, June 27-30, 2017  
Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Efficient removal of olefin and triglycerides by online liquid-liquid chromatography prior to the gas chromatography determination of mineral oil contamination in vegetable oils  
Oral Communication
- 1098** 2<sup>nd</sup> MS NatMED Day. Natural Molecules and Molecular Complexes: Characterization and Biomedical Effects. Aboca – Sansepolcro, June 28<sup>th</sup> – 30<sup>th</sup>, 2017  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
Flavor & Fragrance analysis by means of simultaneous IRMS and QUAD MS detection coupled to Multidimensional GC  
Oral Communication

- 1099** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Danilo Sciarrone, Antonino Schepis and Luigi Mondello  
Three-Dimensional GC-Prep Coupled To Spectroscopic Analysis As A Tool For Structural Identification Of Unknown Molecules  
Oral Communication
- 1100** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Adriana Arigò, Mariosimone Zoccali, Fabio Salafia, Maria Luisa Calabrò, Paola Dugo, Luigi Mondello  
Supercritical Fluid Chromatography coupled to Tandem Mass Spectrometry for Limonoid Aglycones Detection in Citrus Essential Oils  
Oral Communication
- 1101** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Domenica Mangraviti, Francesco Cacciola, Katia Arena, Francesca Rigano, Paola Dugo, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography Coupled to Mass Spectrometry for Elucidation of the Polyphenolic Fraction of Pistacia vera from Different Geographical Origin  
Oral Communication
- 1102** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Giuseppe Micalizzi, Paola Dugo, Luigi Mondello  
Method Optimization for Elucidation of Human Blood Fatty Acid Methyl Esters by Using Conventional and Fast Gas Chromatography  
Oral Communication
- 1103** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Marco Piparo, Barbara Giocastro, Fabrizio Cincotta, Peter Q. Tranchida, Luigi Mondello  
Fast Cryogenic Comprehensive Two-dimensional Gas Chromatography-mass Spectrometry: Concept, Method Optimization and Applications in the Lipid Field  
Oral Communication
- 1104** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Antonino Schepis, Danilo Sciarrone and Luigi Mondello

Novel Simultaneous Detection by Isotope Ratio Mass Spectrometry and Quadrupole Mass Spectrometry Coupled to Multidimensional Gas Chromatography for the Analysis of Valuable Food Products  
Oral Communication

- 1105** Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi. Recenti sviluppi in Scienze delle Separazioni e in Bioanalitica, Ferrara, 10-11 Luglio 2017  
Marianna Oteri, Paola Donato, Daniele Giuffrida, Paola Dugo and Luigi Mondello  
Carotenoid Fingerprinting in a Paprika Sample by Supercritical Fluid Chromatography×Ultra High Pressure Liquid Chromatography and Mass Spectrometry Detection  
Oral Communication
- 1106** 8<sup>th</sup> International Carotenoids Society Symposium, Lucerne, July 9<sup>th</sup>-14<sup>th</sup> 2017  
Giuffrida D, Zoccali M, Arigò A, Dugo P, Mondello L  
On-line SFE-SFC-MS of Carotenoids and SFC-QqQ-MS of Apocarotenoids from red Habanero (*Capsicum chinense* Jacq.) chilli pepper  
Oral Communication
- 1107** 8<sup>th</sup> International Carotenoids Society Symposium, Lucerne, July 9<sup>th</sup>-14<sup>th</sup> 2017  
Giuffrida D, Monnet C, Laurent F, Cacciola F, Oteri M, Le Piver M, Donato P, Mondello L, Roueyre D, Dufossé L  
Carotenoids from the ripening bacteria belonging to the genus *Brevibacterium* impart color to the rind of the Fourme de Montbrison  
PDO French cheese  
Poster Communication
- 1108** IVAS 2017, 10<sup>th</sup> In Vino Analytica Scientia Symposium, Salamanca, Spain, July 17-20 2017  
Luigi Mondello  
Two-dimensional comprehensive liquid chromatography techniques for the analysis of bioactive molecules and contaminants in wine  
Invited Oral Communication
- 1109** XIX EUROANALYSIS 2017, Europe's Analytical Chemistry Meeting, Stockholm, Sweden, August 28-September 1 2017  
Luigi Mondello  
Different Approaches to Multidimensionality in Chromatographic Separations Coupled to Mass Spectrometry Detection to Face Challenging Analytical Tasks  
Invited Oral Communication

- 1110** XIX EUROANALYSIS 2017, Europe's Analytical Chemistry Meeting, Stockholm, Sweden, August 28-September 1 2017  
Paola Dugo, Danilo Sciarrone, Antonino Schepis and Luigi Mondello  
Simultaneous detection by isotope ratio mass spectrometry and quadrupole mass spectrometry coupled to multidimensional gas chromatography  
Poster Communication
- 1111** XIX EUROANALYSIS 2017, Europe's Analytical Chemistry Meeting, Stockholm, Sweden, August 28-September 1 2017  
Mariosimone Zoccali, Mariarosa Maimone, Paola Dugo and Luigi Mondello  
Determination of biomarkers in petrochemical samples by using FM-GC×GC-QqQ MS  
Poster Communication
- 1112** 15th Euro Fed Lipid Congress Oil, Fats and Lipids: New Technologies and F. Rigano, M. Oteri, P. Dugo, L. Mondello  
Applications for a Healthier Life, Uppsala, Sweden, 27-30 August 2017  
Reliable Identification of Lipid Biological Samples by High Efficiency Chromatography Techniques and a Novel Lipid Database  
Oral Communication
- 1113** XXVI Congresso Nazionale della Società Chimica Italiana Centro Congressi Hotel Ariston Paestum (SA), Italy, 10-14 settembre 2017  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography × reversed-phase liquid chromatography with quadrupole time-of-flight and ion mobility mass spectrometry detection: a proof of concept  
Invited Oral Communication
- 1114** XXVI Congresso Nazionale della Società Chimica Italiana Centro Congressi Hotel Ariston Paestum (SA), Italy, 10-14 settembre 2017  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
Advanced analytical capabilities exploiting isotope ratio mass spectrometry and quadrupole mass spectrometry coupled to multidimensional gas chromatography  
Invited Oral Communication
- 1115** 48<sup>th</sup> International Symposium on Essential Oils, Pécs, Hungary, 10-13 September 2017  
Luigi Mondello  
Isolation and Characterization of the Oxygen Heterocyclic Compounds (Coumarins, Psoralens, and Polymethoxylated Flavones) in Cosmetic Products  
Invited Oral Communication
- 1116** 48<sup>th</sup> International Symposium on Essential Oils, Pécs, Hungary, 10-13 September 2017  
Margita Utczás, Giuseppe Micalizzi, Éva Martos, Luigi Mondello  
Analysis of potentially harmful volatiles in e-liquids by HS-GC-MS  
Oral Communication

- 1117** 48<sup>th</sup> International Symposium on Essential Oils, Pécs, Hungary, 10-13 September 2017  
A. Arigò, M. Zoccali, M. Utczás, M.L. Calabrò, P. Dugo and L. Mondello  
Characterization of limonoids in citrus essential oils by means of supercritical fluid chromatography tandem mass spectrometry (SFC-QqQ MS)  
Poster Communication
- 1118** 24th International Symposium on Electro- and Liquid Phase-Separation Techniques, Gdansk, Poland, 10-13 September, 2017  
Mariosimone Zoccali, Luigi Mondello  
A unified analytical tool for green extraction and determination of bioactive compounds from food samples  
Invited Oral Communication
- 1119** 24th International Symposium on Electro- and Liquid Phase-Separation Techniques, Gdansk, Poland, 10-13 September, 2017  
C. Fanali, M. Russo, G. Tripodo, L. Dugo, L. Mondello  
HPLC-PDA/ESI-MS analysis of phenolic compounds in foods and antioxidant activity evaluation: a phytochemical study  
Invited Oral Communication
- 1120** 5th Weurman Flavour Research Symposium, Graz, Austria September 18<sup>th</sup>-22<sup>nd</sup>, 2017  
Adriana Arigò, Paola Dugo, Luigi Mondello  
Characterization of the Oxygen Heterocyclic Compounds (Coumarins, Psoralens, and Polymethoxylated Flavones) in Cosmetic Products  
Invited Oral Communication
- 1121** 23rd International Symposium on Separation Sciences (ISSS 2017), Vienna, Austria, 19-22 September 2017  
Luigi Mondello  
Online Subcritical Solvent Extraction and Chromatography for Carotenoid Fingerprinting in Foodstuffs Using Mass Spectrometry Detection  
Invited Oral Communication
- 1122** 23rd International Symposium on Separation Sciences (ISSS 2017), Vienna, Austria, 19-22 September 2017  
Peter Q. Tranchida, Luigi Mondello  
Comprehensive two-dimensional gas chromatography mass spectrometry (GC×GC-MS): Fundamentals and state-of-the-art applications  
Invited Oral Communication
- 1123** 23rd International Symposium on Separation Sciences (ISSS 2017), Vienna, Austria, 19-22 September 2017  
Peter Q. Tranchida, Barbara Giocastro, Marco Piparo, Mariarosa Maimone, Luigi Mondello  
Fast cryogenic comprehensive two-dimensional gas chromatography-mass spectrometry by using a 10 m micro-bore <sup>1</sup>D + <sup>2</sup>D column: concept, method optimization and applications  
Invited Oral Communication

- 1124** 23rd International Symposium on Separation Sciences (ISSS 2017), Vienna, Austria, 19-22 September 2017  
Margita Utczás, Ana G. Buglia, Antonio C. Marín, Fabio Chinnici, Claudio Riponi, Éva Martos, and Luigi Mondello  
Qualitative study of aroma compounds of wine treated with different additives  
Comunicazione Orale  
Oral Communication
- 1125** Waters MS TECHNOLOGY DAY 2017, Milano, 19 settembre 2017  
Francesca Rigano, Luigi Mondello  
REIMS per il controllo delle frodi alimentari  
Oral Communication
- 1126** XIX<sup>th</sup> EuroFoodChem Conference, Budapest, Hungary, 4<sup>th</sup>-6<sup>th</sup> October 2017  
Margita Utczás, Paolo Oliveri, Cristina Malegori, Éva Martos, Luigi Mondello  
Exploitation of a unique mass spectral database with embedded linear retention index for volatile fraction characterization of pistachios with different geographical origin  
Oral Communication
- 1127** 8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017), Prague, Czech Republic, November 7-10, 2017  
Peter Quinto Tranchida, Mariosimone Zoccali, Luigi Mondello  
THREE-, FOUR-, AND FIVE-DIMENSIONAL LIQUID CHROMATOGRAPHY-GAS CHROMATOGRAPHY-MASS SPECTROMETRY PROCESSES IN FOOD ANALYSIS  
Oral Communication
- 1128** 8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017), Prague, Czech Republic, November 7-10, 2017  
Mariosimone Zoccali, Adriana Arigò, Marina Russo, Francesca Rigano, Paola Dugo, Luigi Mondello  
Characterization of the Oxygen Heterocyclic Compounds (Coumarins, Psoralens and Polymethoxylated Flavones) in Food Products  
Invited Oral Communication
- 1129** 8<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2017), Prague, Czech Republic, November 7-10, 2017  
Mariosimone Zoccali, Adriana Arigò, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Online Extracion and Determination of Bioactive Compounds from Food Samples by Means of Supercritical Fluid Extraction-Supercritical Fluid Chromatography-Mass Spectrometry  
Oral Communication
- 1130** 10<sup>o</sup> Encontro Nacional de Cromatografia, Bargarca, Portugal, December 4-6, 2017  
Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography in food and natural products analysis  
Invited Oral Communication



- 1131** 15<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24<sup>th</sup>- 26<sup>th</sup>  
Luigi Mondello  
Flow-modulated two-dimensional gas chromatography coupled to tandem mass spectrometry for “comprehensive” characterization of complex samples  
Invited Oral Communication
- 1132** 15<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24<sup>th</sup>- 26<sup>th</sup>  
Paola Dugo, Luigi Mondello  
Exploiting Comprehensive two-dimensional liquid chromatography in food analysis  
Invited Oral Communication
- 1133** 15<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24<sup>th</sup>- 26<sup>th</sup>  
Paola Dugo, Francesco Cacciola, Francesca Rigano, Luigi Mondello  
Analysis of food products using advanced analytical techniques  
Invited Oral Communication
- 1134** 15<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24<sup>th</sup>- 26<sup>th</sup>  
Mariosimone Zoccali, Daniele Giuffrida, Adriana Arigò, Paola Dugo, Luigi Mondello  
Online extraction and determination of carotenoids from food sample by means of supercritical fluid extraction-supercritical fluid chromatography-mass spectrometry  
Oral Communication
- 1135** 15<sup>th</sup> International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24<sup>th</sup>- 26<sup>th</sup>  
Mariosimone Zoccali, Luigi Mondello  
Solutions for allergens in fragrances  
Invited Oral Communication
- 1136** Workshop: L'Ingegneria Agroindustriale: dalla ricerca alle applicazioni, Roma, 9 Febbraio 2018  
Paola Dugo, Francesca Rigano, Domenica Mangraviti, Emanuela Trovato, Luigi Mondello  
La tecnologia “iKnife” una nuova metodica ultraveloce per svelare le frodi alimentari  
Invited Oral Communication
- 1137** 34<sup>th</sup> International Symposium on Microscale Separations and Bioanalysis (MSB 2018), Rio de Janeiro, Brazil, February 18-21, 2018  
Luigi Mondello  
Comprehensive 2D Chromatography Coupled to QqQ-MS for the Analysis of Food  
Invited Oral Communication

- 1138** 34th International Symposium on Microscale Separations and Bioanalysis (MSB 2018), Rio de Janeiro, Brazil, February 18-21, 2018  
Paola Dugo, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography for the Analysis of natural products  
Invited Oral Communication
- 1139** 5<sup>th</sup> Kuwait Conference of Chemistry (KCC 2018), Kuwait City, March 12-14th, 2018  
P.Q. Tranchida, M. Zoccali, L. Mondello  
An Innovational 5-Dimensional System (LC-GC×GC-MS/MS) for the Analysis of Petroleum Derivatives  
Invited Oral Communication
- 1140** 1<sup>st</sup> LC×LC symposium short course: Riva del Garda, Sunday May 13, 2018-01-05  
Paola Dugo, Luigi Mondello  
Introduction to 2D-LC - Basic principles  
Course title: Comprehensive 2D-LC (LC×LC): Introduction, Advances and Applications  
Invited Oral Communication
- 1141** 1<sup>st</sup> LC×LC symposium short course: Riva del Garda, Sunday May 13, 2018-01-05  
Paola Dugo, Luigi Mondello  
Selected applications. Food & natural products  
Course title: Comprehensive 2D-LC (LC×LC): Introduction, Advances and Applications  
Invited Oral Communication
- 1142** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Paola Dugo, Luigi Mondello  
Comprehensive 2D-LC in the analysis of food products  
Invited Oral Communication
- 1143** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Peter Q. Tranchida, Ivan Aloisi, Barbara Giocastro, Luigi Mondello  
Enhancing the identification potential of comprehensive 2D GC-MS by using soft ionization  
Invited Oral Communication

- 1144** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Danilo Sciarrone, Antonino Schepis and Luigi Mondello  
Multidimensional liquid-gas chromatography coupled to a simultaneous detection by isotope ratio mass spectrometry and quadrupole mass spectrometry for olive oil triglycerides analysis  
Oral Communication
- 1145** 42<sup>nd</sup> International Symposium on Capillary Chromatography and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18 2018  
Mariosimone Zoccali, Luigi Mondello.  
On-line coupled liquid chromatography – comprehensive two dimensional gas chromatography with dual detection for the analysis of mineral oil and synthetic hydrocarbons in cosmetic lip products.  
Oral Communication
- 1146** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Flow-modulation comprehensive 2D GC combined with triple-quadrupole mass spectrometry: a very powerful and flexible analytical tool  
Oral Communication
- 1147** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Margita Utczás, Emanuela Trovato, Filippo Alibrando, Federica Vento, Luigi Mondello  
Gas chromatography coupled with condensed phase FTIR: a novel and reliable technique for flavor and fragrance analysis  
Oral Communication
- 1148** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Mariosimone Zoccali, Fabio Salafia, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Extraction and characterization of carotenoids and apo-carotenoids from microalgae by means of supercritical fluid extraction-supercritical fluid chromatography tandem mass spectrometry  
Poster Communication
- 1149** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Ivana Bonaccorsi, Luisa Schipilliti, Peter Q. Tranchida, Luigi Mondello  
A new method based on comprehensive data evaluation (CDE) of  $\delta^{13}\text{C}$  for quality assessment and traceability of natural compounds  
Poster Communication

- 1150** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Barbara Giocastro, Marco Piparo, Peter Q. Tranchida, Luigi Mondello  
Fast comprehensive 2D GC-MS using a 10-m column combination  
Poster Communication
- 1151** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Ivan Aloisi, Peter Q. Tranchida, Luigi Mondello  
Cryogenically-modulated comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry: detailed qualitative profiling of the unsaponifiable fraction of vegetable oils  
Poster Communication
- 1152** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Evaluation and use of a novel consumable-free thermal modulator and a bench-top time-of-flight mass spectrometer in comprehensive 2D GC applications  
Poster Communication
- 1153** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Marianna Oteri, Francesca Rigano, Paola Donato, Peter Tranchida, Paola Dugo, Luigi Mondello  
Profiling of triacylglycerols in vegetable oils by using MALDI-TofMS and HPLC-MS: A side-by-side comparison  
Poster Communication
- 1154** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Fabio Salafia, Daniele Giuffrida, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Characterization of carotenoids and apocarotenoids in human blood samples by means of online supercritical fluid extraction supercritical fluid chromatography tandem mass spectrometry  
Poster Communication
- 1155** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Daniele Giuffrida, Daniella C. Murador, Fabio Salafia, Mariosimone Zoccali, Adriana Arigò, Vieridiana V. De Rosso, Paola Dugo, Luigi Mondello  
Bioactive compounds in orange peel from a brazilian variety ('Pera')  
Poster Communication
- 1156** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Adriana Arigò, Mariosimone Zoccali, Fabio Salafia, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography tandem mass spectrometry to characterize limonoid aglycones in citrus essential oils  
Poster Communication

- 1157** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Mariosimone Zoccali, Fabio Salafia, Daniele Giuffrida, Carmen Socaciu, Paola Dugo, Luigi Mondello  
Extraction and characterization of carotenoids and apo-carotenoids from microalgae by means of supercritical fluid extractionsupercritical fluid chromatography tandem mass spectrometry  
Poster Communication
- 1158** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Katia Arena, Francesco Cacciola, Fabio Salafia, Francesca Rigano, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography coupled to tandem mass spectrometry for quali-quantitative analysis of the polyphenolic fraction of extra virgin olive oils  
Poster Communication
- 1159** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Yassine Oulad El Majdoub, Mohammed Diouri, Paola Arena, Adriana Arigò, Francesco Cacciola, Paola Dugo, Luigi Mondello  
HPLC-PDA/ESI-MS analysis of available polyphenols of Hibiscus sabdariffa and Zingiber officinale within rat colon lumen  
Poster Communication
- 1160** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Antonino Schepis, Danilo Sciarrone, Gemma De Grazia, Luigi Mondello  
Preparative three dimensional gas chromatography: a powerful approach for the isolation of pure molecules  
Poster Communication
- 1161** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Danilo Sciarrone, Luigi Mondello  
Innovative all-in-one MDGC system for fast Heart-cut analysis of complex samples  
Poster Communication
- 1162** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Emanuela Trovato, Margita Utczás, Luigi Mondello  
Cannabis terpene profiling in medicinal products by gas chromatography coupled with mass spectrometry and linear retention index  
Poster Communication

- 1163** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Paola Donato, Giuseppe Micalizzi, Marianna Oteri, Francesca Rigano, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
Profiling of marine organism lipidome using hyphenated and multidimensional chromatography techniques coupled to mass spectrometry detection  
Poster Communication
- 1164** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Paola Donato, Daniele Giuffrida, Marianna Oteri, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography×ultrahigh pressure liquid chromatography for *Paprika* fingerprinting by Q-TOF and ion mobility spectrometry  
Poster Communication
- 1165** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
A. Arigò, F. Rigano, P. Dugo, L. Mondello  
Linear Retention Index approach applied to LC techniques for reliable characterization of oxygen heterocyclic compounds in cosmetics  
Poster Communication
- 1166** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Jitka Kličarová, Oriana Colletta, Francesco Cacciola, Paola Dugo, Lenka Česlová, Luigi Mondello  
Optimization and validation of an HPLC-PDA/ESI-MS method for the determination of polyphenols in extra virgin olive oils  
Poster Communication
- 1167** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Giuseppe Micalizzi, Emanuela Ragosta, Paola Dugo, Luigi Mondello  
Method optimization for elucidation of human blood fatty acid methyl esters by gas chromatography  
Poster Communication
- 1168** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Antonino Schepis, Danilo Sciarrone, Gemma De Grazia, Luigi Mondello  
Simultaneous detection by isotope ratio mass spectrometry and quadrupole mass spectrometry coupled to multidimensional gas chromatography for analysis of truffle aromatized food products  
Poster Communication
- 1169** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Antonino Schepis, Danilo Sciarrone, Luigi Mondello  
Multidimensional gas chromatography with simultaneous detection by quadrupole mass spectrometry and isotope ratio mass spectrometry for the investigation of *Vanilla* aromatized ice-cream adulteration  
Poster Communication

- 1170** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Antonino Schepis, Danilo Sciarrone, and Luigi Mondello  
Online LC pre-separation coupled to Heart-cutting MDGC-Prep as a tool for collection of target compounds  
Poster Communication
- 1171** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Antonino Schepis, Danilo Sciarrone, Luigi Mondello  
Advanced genuineness assessment capability in flavor and fragrance field exploiting multidimensional gas chromatography coupled to isotope ratio mass  
Poster Communication
- 1172** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Federica Vento, Emanuela Trovato, Margita Utczás, Luigi Mondello  
Identification of fragrance allergens by GC-TOF analysis  
Poster Communication
- 1173** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Katia Arena, Francesco Cacciola, Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography Coupled to Mass Spectrometry for Elucidation of the Polyphenolic Fraction of Pistacia vera from Different Geographical Origin  
Poster Communication
- 1174** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Domenica Mangraviti, Francesca Rigano, Roberta La Tella, Luigi Mondello  
IKNIFE: a new sampling device coupled to rapid evaporative ionization mass spectrometry for the detection of food fraud  
Poster Communication
- 1175** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Francesca Rigano, Sara Stead, Domenica Mangraviti, Renata Jandova, Davy Petit, Luigi Mondello  
Authenticity of pistachio samples through the innovative rapid evaporative ionization mass spectrometry technology  
Poster Communication
- 1176** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Marina Russo, Chiara Fanali, Laura Dugo, Paola Dugo, Luigi Mondello Laura De Gara  
Determination of caffeine in coffee and cocoa using online extraction coupled to liquid chromatography  
Poster Communication

- 1177** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Marina Russo, Maria Beatrice Ronci, Alessandra Vilmercati, Luigi Mondello, Paola Dugo, Laura De Gara  
Determination of bioactive molecules in Baobab (*Adansonia digitata*) fruit from Tanzania using liquid chromatography  
Poster Communication
- 1178** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Chiara Fanali, Susanna Della Posta, Alessandra Vilmercati, Laura Dugo, Marina Russo, Luigi Mondello, Laura De Gara  
Phenolic compounds analysis and antioxidant activity evaluation of different PDO Italian extra-virgin olive oils  
Poster Communication
- 1179** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Filippo Alibrando, Emanuela Trovato, Margita Utczas, Luigi Mondello  
MS/MS spectral library with linear retention indices: a powerful tool for identification of pesticides in complex matrices  
Poster Communication
- 1180** 42<sup>nd</sup> International Symposium on Capillary Chromatography, and 15<sup>th</sup> GC×GC Symposium, Riva del Garda, Italy, May 13-18, 2018  
Emanuela Ragosta, Giuseppe Micalizzi, Sara Farnetti, Paola Dugo, Luigi Mondello  
Role of lipids in female infertility: determination of the fatty acid methyl esters profile in follicular fluid by GC analysis  
Poster Communication
- 1181** 12<sup>th</sup> European Pesticide Residue Workshop, Munich, Germany, May 22-25, 2018  
Emanuela Trovato, Margita Utczás, Filippo Alibrando, Federica Vento, Luigi Mondello  
Untargeted pesticide screening in foodstuff with the support of an extensive mass spectral library with embedded linear retention indices  
Poster Communication
- 1182** 11<sup>th</sup> International Symposium on Chromatography of Natural Products, Lublin, Poland, June 4-7, 2018.  
Tranchida PQ, Zoccali M, Mondello L  
On-line subcritical solvent extraction and chromatography for carotenoid fingerprinting in foodstuffs using mass spectrometry detection  
Invited Oral Communication



- 1183** Workshop Flavors&Fragrances Polimi, Milano 11-06-2018  
Paola Dugo, Danilo Sciarrone, Ivana Bonaccorsi, Luigi Mondello  
Multidimensional gas chromatography coupled to isotope ratio mass spectrometry for the determination of authenticity of essential oils and food products  
Invited Oral Communication
- 1184** XII Congresso Società Italiana di Microbiologia Farmaceutica, Camerino, 21-22 giugno 2018  
Hajer Tlili, Andreana Marino, Giovanna Ginestra, Francesco Cacciola, Luigi Mondello, Natalizia Miceli, Maria Fernanda Taviano, Hanen Najjaa, Antonia Nostro  
Antibacterial Activity, brine shrimp toxicity and profile of plant extracts from Tunisia  
Poster Communication
- 1185** ISEAC-40 Santiago de Compostela, Spain, June 19-22 2018  
E. Trovato, M. Utczás, F. Alibrando, F. Vento, L. Mondello  
Improved reliability and decreased limit of pesticide identification with a unique MS/MS spectral library with embedded linear retention indices  
Poster Communication
- 1186** ISEAC-40 Santiago de Compostela, Spain, June 19-22 2018  
M. Zoccali, E. Trovato, L. Mondello  
Fast Online extraction and determination method for carotenoids screening in food Samples by means of supercritical fluid extraction-supercritical fluid chromatography-mass spectrometry  
Poster Communication
- 1187** 47<sup>th</sup> International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, Washington DC, USA, 29 Jul-02 Aug 2018  
Mariosimone Zoccali, Daniele Giuffrida, Fabio Salafia, Paola Dugo, Luigi Mondello  
Characterization of carotenoids and apocarotenoids in Human blood samples by means of online supercritical fluid extraction supercritical fluid chromatography tandem mass spectrometry  
Oral Communication
- 1188** 47th International Symposium and Exposition on High Performance Liquid Phase Separations and Related Techniques, Washington DC, USA, 29 Jul-02 Aug 2018  
Mariosimone Zoccali, Luigi Mondello  
Liquid chromatography as sample preparation technique on-line coupled to comprehensive two-dimensional gas chromatography with dual detection for the analysis of mineral oil and synthetic hydrocarbons in cosmetic lip products  
Poster Communication

- 1189** 132<sup>nd</sup> Annual Meeting & Exposition, Toronto, Canada, August 26 -29, 2018  
Mariosimone Zoccali, Adriana Arigò, Luigi Mondello  
Effects of supercritical fluid chromatography conditions on separation of chiral pesticides  
Poster Communication
- 1190** 132<sup>nd</sup> Annual Meeting & Exposition, Toronto, Canada, August 26 -29, 2018  
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello  
Application of Linear Retention Index to Liquid Chromatography coupled to Tandem Mass Spectrometry for the reliable Characterization of Furocoumarins in Cosmetic Products  
Poster Communication
- 1191** 132<sup>nd</sup> Annual Meeting & Exposition, Toronto, Canada, August 26 -29, 2018  
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello  
Application of Linear Retention Index and evaluation of Limit of Quantification in Liquid Chromatography coupled to Photodiode Array Detector for the reliable Characterization of Furocoumarins in Citrus Essential Oils  
Poster Communication
- 1192** XXII International Mass Spectrometry Conference (IMSC 2018), Florence, Italy, August, 26-31, 2018  
Francesca Rigano, Marianna Oteri, Paola Dugo, Luigi Mondello  
Reliable identification of bioactive compounds in foodstuffs through the use of a novel dual-filter mass spectral library in liquid chromatography  
Oral Communication
- 1193** XXII International Mass Spectrometry Conference (IMSC 2018), Florence, Italy, August, 26-31, 2018  
Francesca Rigano, Domenica Mangraviti, Luigi Mondello  
Iknife, a novel ambient mass spectrometry approach for the real-time identification of food samples  
Poster Communication
- 1194** XVII SILAE Congress, September 9-13<sup>th</sup> 2018, Milazzo, Italy  
Cacciola F., Dugo P., Mondello L.  
Comprehensive two-dimensional liquid chromatography in food and natural products analysis  
Oral Communication
- 1195** XVII SILAE Congress, September 9-13<sup>th</sup> 2018, Milazzo, Italy  
Ivana Bonaccorsi, Luisa Schipilliti, Luigi Mondello  
Comprehensive Isotopic Data Evaluation (CIDE) of Carbon Isotope Ratios for Quality Assessment and Traceability of Natural Compounds  
Oral Communication

- 1196** 49<sup>th</sup> International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13<sup>th</sup>-16<sup>th</sup> September, 2018  
Adriana Arigò, Paola Dugo, Luigi Mondello  
Linear retention index approach applied to liquid chromatography coupled to PDA and QqQ MS detectors for reliable characterization of oxygen heterocyclic compounds in essential oils and finished cosmetic products  
Invited Oral Communication
- 1197** 49<sup>th</sup> International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13<sup>th</sup>-16<sup>th</sup> September, 2018  
Margita Utczas, Emanuela Trovato, Filippo Alibrando, Federica Vento, Luigi Mondello  
Novel analytical tool for a univocal flavor and fragrance identification: gas chromatography coupled with condensed-phase FTIR and TOF mass spectrometry  
Oral Communication
- 1198** 49<sup>th</sup> International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13<sup>th</sup>-16<sup>th</sup> September, 2018  
Margita Utczas, Emanuela Trovato, Filippo Alibrando, Federica Vento, Luigi Mondello  
Cannabis terpene profiling in therapeutic products by means of gas chromatography coupled with mass spectrometry  
Poster Communication
- 1199** XXVII Congresso Divisione Chimica Analitica, Bologna, Italy, September 16-20, 2018  
P.Q. Tranchida, I. Aloisi, B. Giocastro, M. Zoccali, P. Dugo, L. Mondello  
Detailed profiling of extra-virgin olive oils by using comprehensive two-dimensional gas chromatography with dual quadrupole mass spectrometry and flame ionization detection  
Oral Communication
- 1200** XXVII Congresso Divisione Chimica Analitica, Bologna, Italy, September 16-20, 2018  
C. Fanali, S. Della Posta, A. Vilmercati, L. Dugo, M. Russo, T. Petitti, L. Mondello, L. De Gara  
Extraction, analysis and antioxidant activity evaluation of phenolic compounds in different Italian extra-virgin olive oils  
Oral Communication
- 1201** 49<sup>th</sup> International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13<sup>th</sup>-16<sup>th</sup> September, 2018  
D. Sciarrone, A. Schepis, L. Mondello  
Authentication of truffles and products containing truffle by means of MDGC-C-IRMS qMS with a low-bleed ionic liquid secondary column  
Poster Communication

- 1202** XXVII Congresso Divisione Chimica Analitica, Bologna, Italy, September 16-20, 2018  
D. Sciarrone, A. Schepis, L. Mondello  
Multidimensional liquid-gas chromatography coupled to a simultaneous isotope ratio and quadrupole mass spectrometry for olive oil triglycerides analysis  
Poster Communication
- 1203** 32nd International Symposium on Chromatography (ISC 2018), Cannes-Mandelieu, France, September 23-27, 2018  
Luigi Mondello  
The Linear Retention Index Approach: Tool for Dispelling Uncertainties in LC-MS Based Identification  
Invited Oral Communication
- 1204** 32nd International Symposium on Chromatography (ISC 2018), Cannes-Mandelieu, France, September 23-27, 2018  
A. Arigò, F. Rigano, P. Dugo, L. Mondello  
Application of Linear Retention Indices in Liquid Chromatography for Reliable Characterization of Oxygen Heterocyclic Compounds in Cosmetics  
Oral Communication
- 1205** 32nd International Symposium on Chromatography (ISC 2018), Cannes-Mandelieu, France, September 23-27, 2018  
A. Arigò, F. Rigano, P. Dugo, L. Mondello  
Application of Linear Retention Indices in Liquid Chromatography for Reliable Characterization of Oxygen Heterocyclic Compounds in Cosmetics  
Poster Communication
- 1206** 32nd International Symposium on Chromatography (ISC 2018), Cannes-Mandelieu, France, September 23-27, 2018  
Adriana Arigò, Katia Arena, Francesco Cacciola, Fabio Salafia, Francesca Rigano, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Advantages of Comprehensive Two-Dimensional Liquid Chromatography on Separation and Matrix Effects in the Polyphenol Profiling of Extra Virgin Olive Oils  
Poster Communication
- 1207** CHIMALI-XII Italian Food Chemistry Congress, Camerino, Italy, September 24-27 2018.  
Paola Dugo, Luigi Mondello  
The role of innovative analytical techniques in food chemistry  
Invited Oral Communication

- 1208** CHIMALI-XII Italian Food Chemistry Congress, Camerino, Italy, September 24-27 2018.  
Peter Q. Tranchida, Ivan Aloisi, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
In-depth profiling of the unsaponifiable fraction of vegetable oils by using comprehensive 2D gas chromatography-high resolution time-of-flight mass spectrometry  
Oral Communication
- 1209** CHIMALI-XII Italian Food Chemistry Congress, Camerino, Italy, September 24-27 2018.  
Marianna Oteri, Paola Donato, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Applications of Supercritical Fluid Chromatography-Mass Spectrometry for the Analysis of the Lipid Profile of Matrices of Nutritional Value  
Poster Communication
- 1210** 2nd International Conference on Food Bioactives & Health, Lisbon, Portugal, September 26-28 2018.  
Daniele Giuffrida, Daniella C. Murador, Fabio Salafia, Mariosimone Zoccali, Adriana Arigò, Veridiana V. De Rosso, Paola Dugo, Luigi Mondello  
Bioactive compounds in orange peel from a Brazial variety (“Pera”)  
Poster Communication
- 1211** 9th Shanghai International Symposium on Analytical Chemistry (analytical China Conference 2018), Shanghai, China, October 31-November 01, 2018.  
Peter Q. Tranchida, Paola Dugo and L. Mondello  
“Comprehensive 2D chromatography (GC×GC, LC×LC) coupled to triple-quad mass spectrometry for complex sample analysis using a dedicated quali/quantitative software”  
Poster Communication
- 1212** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Danilo Sciarrone, Antonino Schepis and Luigi Mondello  
Multidimensional liquid-gas chromatography coupled to a simultaneous detection by isotope ratio mass spectrometry and quadrupole mass spectrometry for olive oil triglycerides analysis  
Oral Communication
- 1213** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Adriana Arigò, Paola Dugo, Luigi Mondello  
Indici di Ritenzione Lineare applicati alla Cromatografia Liquida associata a Rivelatori PDA e MS per la Determinazione dei Composti Eterociclici Ossigenati negli Oli Essenziali Agrumari e nei Prodotti Cosmetici  
Oral Communication

- 1214** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Barbara Giocastro, Mariosimone Zoccali, Peter Quinto Tranchida, Luigi Mondello  
Valutazione di un Nuovo Modulatore Termico Consumable-Free (Solid State Modulator) per la Gascromatografia Bidimensionale Comprehensive  
Oral Communication
- 1215** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Giuseppe Micalizzi, Emanuela Ragosta, Sara Farnetti, Paola Dugo, Luigi Mondello  
Sviluppo di un Metodo Analitico Totalmente Automatico per la Valutazione degli acidi grassi nel sangue umano tramite gas cromatografia  
Oral Communication
- 1216** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Fabio Salafia, Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Determinazione di Carotenoidi e Apocarotenoidi nel Sangue Umano Mediante Estrazione e Cromatografia a Fluido Supercritico  
Oral Communication
- 1217** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Mariosimone Zoccali, Peter Quinto Tranchida, Simone Cappello, Luigi Mondello  
Utilizzo di Tecniche Gascromatografiche Multidimensionali Comprehensive per la Caratterizzazione della Biodegradazione Idrocarburica ad Opera di Popolazioni Microbiche Marine  
Oral Communication
- 1218** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Matteo Gionfriddo, Marina Russo, Maria Beatrice Ronci, Alessandra Vilmercati, Luigi Mondello, Laura De Gara  
Cromatografia Liquida accoppiata a Spettrometria di Massa per la caratterizzazione di Molecole Bioattive in Baobab  
Oral Communication
- 1219** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Fabio Salafia, Marina Russo, Paola Dugo, Luigi Mondello  
Sviluppo di un Metodo HPLC Rapido per l'Analisi di Tocoferoli in Oli Extravergine di Oliva  
Oral Communication
- 1220** Incontri di Scienza delle Separazioni 2018, Roma, Italy, 8-9 Novembre 2018  
Adriana Arigò, Katia Arena, Francesco Cacciola, Fabio Salafia, Francesca Rigano, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Vantaggi della Cromatografia Liquida Bidimensionale Comprehensive sulla Separazione e l'Effetto Matrice nel Profilo Polifenolico degli Oli Extra Vergine di Oliva  
Oral Communication

- 1221** 10<sup>th</sup> Multidimensional Chromatography Workshop, Liege, Belgium, January 21-23, 2019  
Ivan Aloisi, Tiago Schena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Flow-modulation comprehensive 2D GC within the context of complex sample analyses  
Oral Communication
- 1222** Pittcon 2019 Philadelphia, PA, USA, March 17-21 2019  
Luigi Mondello, Francesca Rigano  
Nano-LC Coupled to EI-MS for a Fast and Reliable Untargeted Characterization of LC-Amenable Compounds  
Oral Communication
- 1223** Società italiana di Farmacologia (SIF2019), Le basi farmacologiche dei Nutraceutici, Napoli, Italy, March 29-30  
De Pasquale D, Occhiuto C, Aloisi I, Santoro G, Tranchida PQ, Mondello L, Puglisi G, Occhiuto F  
Pharmacological effects of the standardized Lipidosterolic Extract from *Kigelia africana* fruits in experimental Benign Prostatic Hyperplasia induced by testosterone in Sprague Dawley Rats  
Poster Communication
- 1224** AOCS Annual Meeting, St. Louis, Missouri, USA, May 5-8, 2019  
Luigi Mondello  
Fast GC and GC×GC Approaches to Detailed Fatty Acid Fingerprinting in Natural Fats and Oils  
Invited Oral Communication
- 1225** AOCS Annual Meeting, St. Louis, Missouri, USA, May 5-8, 2019  
Luigi Mondello  
Exploiting multidimensionality in separation/detection techniques: an effort towards accurate and precise lipid analysis in a complex scenario  
Invited Oral Communication
- 1226** AOCS Annual Meeting, St. Louis, Missouri, USA, May 5-8, 2019  
Danilo Sciarrone, Luigi Mondello  
Olive oil triglycerides analysis exploiting multidimensional liquid-gas chromatography coupled to isotope ratio and quadrupole mass spectrometry simultaneous detection  
Poster Communication
- 1227** AOCS Annual Meeting, St. Louis, Missouri, USA, May 5-8, 2019  
Francesca Rigano, Danilo Sciarrone, Marianna Oteri, Paola Dugo, Luigi Mondello  
Reliable identification of intact lipids by high efficiency liquid chromatography techniques and a novel linear retention index database  
Poster Communication

- 1228** AOCs Annual Meeting, St. Louis, Missouri, USA, May 5-8, 2019  
Giuseppe Micalizzi, Danilo Sciarrone, Luigi Mondello  
Development of a fully automatic analytical method for the evaluation of fatty acids in human blood spotted on DBS paper by gas chromatography  
Poster Communication
- 1229** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Luigi Mondello  
Exploiting Comprehensive Two-dimensional Liquid Chromatography for the Analysis of Food and Natural Real-world samples  
Invited Oral Communication
- 1230** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Peter Q. Tranchida, Ivan Aloisi, Mariosimone Zoccali, Barbara Giocastro, Tiago Schena, Luigi Mondello  
Generation of identical (or near-to-identical) flow- and cryogenic-modulator GCxGC-MS fingerprints: a side-by-side measurement of the modulation performances  
Oral Communication
- 1231** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Evaluation of a novel consumable-free thermal modulator: Gas flow optimization aspects  
Oral Communication
- 1232** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
A lab-developed interface for LC-GC coupling based on the use of a modified programmed temperature vaporizing injector  
Oral Communication
- 1233** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Barbara Giocastro, Danilo Sciarrone, Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Use of GCxGC-QMS for the analysis of potential biomarkers in biological lipid constituents  
Poster Communication
- 1234** 43<sup>rd</sup> International Symposium on Capillary Chromatography & 16<sup>th</sup> GCxGC Symposium, Fort Worth, Texas USA, May 12-17, 2019  
Ivan Aloisi, Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Paola Dugo, Luigi Mondello  
Cryogenically-modulated comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry for the in-depth analysis of minor compounds in vegetable oils



Poster Communication

- 1235** Challenges in analysis of complex natural mixtures Faraday Discussion  
Edinburgh, United Kingdom, 13-15 May 2019  
Danilo Sciarrone, Antonino Schepis, Gemma De Grazia, Luigi Mondello  
Collection and identification of an unknown component from Eugenia uniflora  
essential oil exploiting a multidimensional preparative three-GC system  
employing apolar, mid-polar and ionic liquid stationary phases  
Invited Oral Communication
- 1236** Challenges in analysis of complex natural mixtures Faraday Discussion  
Edinburgh, United Kingdom, 13-15 May 2019  
A. Arigò, D. Sciarrone, P. Dugo, L. Mondello  
Linear Retention Indices in combination with MS libraries for Automated and  
Reliable Characterization of Psoralens in Citrus Beverages  
Poster Communication
- 1237** Challenges in analysis of complex natural mixtures Faraday Discussion  
Edinburgh, United Kingdom, 13-15 May 2019  
Francesca Rigano, Roberta La Tella, Danilo Sciarrone, Paola Dugo, Luigi  
Mondello  
Supercritical fluid chromatography hyphenated to electron ionization mass  
spectrometry to enhance identification reliability of semi-volatile compounds  
Poster Communication
- 1238** Politechnika Wroclawska, Wroclav, Poland, June 3, 2019  
Luigi Mondello  
The role of a Spin-off Company in Analytical Chemistry. How to monetize  
Science  
Invited Oral Communication
- 1239** Politechnika Wroclawska, Wroclav, Poland, June 4, 2019  
Luigi Mondello  
Separation Science and Food Chemistry the Perfect Marriage  
Invited Oral Communication
- 1240** 67<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Atlanta, USA,  
June 2-6, 2019  
Francesca Rigano, Roberta La Tella, Paola Dugo, Luigi Mondello  
Electron ionization mass spectrometry as detection system for supercritical fluid  
chromatography to increase identification power of semi-volatile compounds  
Poster Communication
- 1241** 10<sup>th</sup> Colloquium Chimiometricum Mediterraneum, Menorca, Spain, June 12-14,  
2019  
Eleonora Mustorgi, Monica Casale, Maryam Hooshyari, Cristina Malegori, Paolo  
Oliveri, Marianna Oteri, Luigi Mondello  
PLS regression models for the determination of EVOO quality parameters by NIR  
spectroscopy: a comparative study  
Poster Communication

- 1242** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Paola Dugo, Francesco Cacciola, Francesca Rigano and Luigi Mondello  
Complementary analytical techniques for complementary of extra virgin olive oils  
Invited Oral Communication
- 1243** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Mariosimone Zoccali, Fabio Salafia, Daniele Giuffrida, Luigi Mondello  
Carbon dioxide-based extraction and separation techniques for the analysis of carotenoids and their derivatives  
Invited Oral Communication
- 1244** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Fabio Salafia, Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Carotenoids and apocarotenoids determination in Capsicum species by supercritical fluid extraction-supercritical fluid chromatography-triple quadrupole/mass spectrometry  
Oral Communication
- 1245** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Adriana Arigò, Francesca Rigano, Paola Dugo, L. Mondello  
Linear Retention Index System in Liquid Chromatography as New Tool to Determine Oxygen Heterocyclic Compounds in Cosmetics and Food  
Oral Communication
- 1246** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Tania M. G. Salerno, Paola Donato, Luigi Mondello  
Solute-deposition LC-FTIR of furocumarin isomers  
Oral Communication
- 1247** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Domenica Mangraviti, Katia Arena, Francesco Cacciola, Mariosimone Zoccali, Francesca Rigano, Paola Dugo, Luigi Mondello  
Determination of the polyphenolic fraction of *Pistacia vera* L. kernel extracts by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Poster Communication
- 1248** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography coupled to mass spectrometry for the determination of the polyphenolic profile in three cultivars of *Brassica juncea*

Poster Communication

- 1249** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Paola Arena, Paola Donato, Danilo Donnarumma, Paola Dugo, Luigi Mondello  
LC-MS/MS characterization of the protein fraction in waste products from the tuna fishery industry  
Poster Communication
- 1250** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Roberta La Tella, Francesca Rigano, Paola Dugo, Luigi Mondello  
Supercritical fluid chromatography hyphenated to electron ionization mass spectrometry to enhance identification reliability of semi-volatile compounds  
Poster Communication
- 1251** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Katia Arena, Eliane Lazzari, E. Bastos-Caramao, Paola Dugo, Luigi Mondello, Alejandro Cifuentes, Miguel Herrero  
Comprehensive two-dimensional liquid chromatography coupled to mass spectrometry for quali-quantitative analysis of aqueous phases of bio-oils from different biomasses  
Poster Communication
- 1252** 48<sup>th</sup> International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, June 16-20, 2019  
Rocío Gallego, Katia Arena, Francesco Cacciola, Luigi Mondello, Elena Ibáñez, Miguel Herrero  
Characterization of astaxanthin-enriched extracts from *Haematococcus pluvialis* by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Poster Communication
- 1253** VII Workshop Nazionale Gruppo Interdivisionale Green Chemistry– Chimica Sostenibile, Società Chimica Italiana, Padova, Italy, 5 luglio 2019  
Susanna Della Posta, Laura De Gara, Luigi Mondello, Chiara Fanali  
A green approach for the extraction of chlorogenic acids from spent coffee ground: deep eutectic solvents  
Oral Communication
- 1254** Isotopes 2019, The Cross-Disciplinary Conference on Stable Isotope Sciences, Raitenhaslach, Germany, July 7-12, 2019  
Danilo Sciarrone & Luigi Mondello  
Simultaneous detection by isotope ratio and quadrupole mass spectrometry coupled to multidimensional gas chromatography for the analysis of complex samples  
Oral Communication

- 1255** Isotopes 2019, The Cross-Disciplinary Conference on Stable Isotope Sciences, Raitenhaslach, Germany, July 7-12, 2019  
Danilo Sciarrone, Gemma De Grazia & Luigi Mondello  
HS-SPME MDGC-C-IRMS with simultaneous quadrupole MS detection: a powerful approach to discriminate between natural and synthetic truffle aroma  
Poster Communication
- 1256** 31st International Symposium on Chirality, Bordeaux, France, July, 14- 17, 2019  
Fabio Salafia, Danilo Sciarrone, Luigi Mondello  
Comparison of monodimensional and multidimensional gas chromatography methods for the separation of volatile chiral compounds in mandarin essential oil  
Poster Communication
- 1257** 31st International Symposium on Chirality, Bordeaux, France, July, 14- 17, 2019  
Fabio Salafia, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Effects on enantiomeric resolutions of chiral pesticides through different conditions of supercritical fluid chromatography  
Poster Communication
- 1258** 17th Latin American Symposium on Chromatography and Related Techniques, Aracaju, Brazil, July 14-19, 2019  
Paola Dugo, Luigi Mondello  
Advances and application of LC×LC  
Short-Course title: LC×LC/MS – Fundamentals and Applications  
Invited Oral Communication
- 1259** 17th Latin American Symposium on Chromatography and Related Techniques, Aracaju, Brazil, July 14-19, 2019  
Peter Tranchida, Luigi Mondello  
Principles of comprehensive LC×LC  
Short-Course title: LC×LC/MS – Fundamentals and Applications  
Invited Oral Communication
- 1260** 17th Latin American Symposium on Chromatography and Related Techniques, Aracaju, Brazil, July 14-19, 2019  
F. Rigano, P. Dugo, L. Mondello  
Electron Ionization Mass Spectrometry and Linear Retention Index as novel identification tools in Liquid Chromatography  
Invited Oral Communication
- 1261** 17th Latin American Symposium on Chromatography and Related Techniques, Aracaju, Brazil, July 14-19, 2019  
Paola Dugo, Francesco Cacciola, Katia Arena, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography for the Analysis of Natural Matrices  
Invited Oral Communication

- 1262** 17th Latin American Symposium on Chromatography and Related Techniques, Aracaju, Brazil, July 14-19, 2019  
Peter Q. Tranchida, Ivan Aloisi, Mariosimone Zoccali, Barbara Giocastro, Tiago Schena, Elina Bastos Caramão, Luigi Mondello  
Analysis of coconut-derived bio-oil by using flow- and cryogenic-modulation comprehensive 2D gas chromatography-mass spectrometry  
Invited Oral Communication
- 1263** 57th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT). Birmingham, UK, September 2-6, 2019  
Salerno Tania, Donato Paola, Frison Giampietro, Mondello Luigi  
Solid-deposition GC-FTIR for Reliable Identification of NPS on Seized Drugs and Human Urine Samples  
Invited Oral Communication
- 1264** 57th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT). Birmingham, UK, September 2-6, 2019  
Characterization of 4-chloroethcathinone (4-CEC) by GC-MS, GC-MS after 2,2,2-trichloroethyl chloroformate derivatization, LC-HRAM Orbitrap™ MS, and Solid Deposition GC-FTIR  
Zamengo Luca, Frison Giampietro, Bettin Chiara, Zancanaro Flavio, Trovato Emanuela, Mondello Luigi  
Poster Communication
- 1265** 57th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT). Birmingham, UK, September 2-6, 2019  
Frison Giampietro, Zamengo Luca, Tedeschi Gianpaola, Trovato Emanuela, Salerno Tania, Mondello Luigi  
Differentiation of the isomers isomephedrone and mephedrone by GC-MS after 2,2,2-trichloroethyl chloroformate derivatization, LC-HRAM Orbitrap™ MS, and GC-FTIR  
Poster Communication
- 1266** 57th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT). Birmingham, UK, September 2-6, 2019  
Salerno Tania, Donato Paola, Frison Giampietro, Mondello Luigi  
Solid deposition GC-FTIR and LC-FTIR as highly discriminating techniques for forensic toxicology applications  
Poster Communication
- 1267** 26<sup>th</sup> International Symposium on Electroseparation and Liquid Phase-Separation Techniques (ITP 2019), Tolouse, France, September 1-4, 2019  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Characterization of the polyphenolic profile from different cultivars of Brassica juncea by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry  
Oral Communication
- 1268** 26<sup>th</sup> International Symposium on Electroseparation and Liquid Phase-Separation Techniques (ITP 2019), Tolouse, France, Septemebr 1-4, 2019  
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello

Linear Retention Index in Liquid Chromatography: New Approach for the Quality Control of Furocoumarins in Cosmetics and Food  
Oral Communication

- 1269** XX EuroAnalysis, Istanbul, Turkey, September 1-5, 2019  
Paola Donato, Paola Arena, Danilo Donnarumma, Paola Dugo, Luigi Mondello  
Investigation of the protein content in waste products from processed tuna fish by means of liquid chromatography-mass spectrometry  
Oral Communication
- 1270** XX EuroAnalysis, Istanbul, Turkey, September 1-5, 2019  
Domenica Mangraviti, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello  
High throughput lipidomics analysis by ultra-high performance liquid chromatography combined with a novel dual-filter mass spectral library for identification purposes  
Oral Communication
- 1271** XX EuroAnalysis, Istanbul, Turkey, September 1-5, 2019  
Phenolic fingerprinting in pistachio nuts of different origins by LC×LC-PDA-MS  
Katia Arena, Paola Donato, Francesco Cacciola, Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello  
Poster Communication
- 1272** XX EuroAnalysis, Istanbul, Turkey, September 1-5, 2019  
Adriana Arigò, Francesca Rigano, Domenica Mangraviti, Paola Dugo, Luigi Mondello  
Characterization of oxygen heterocyclic compounds in cosmetics by applying linear retention indices in liquid chromatography  
Poster Communication
- 1273** 25th International Symposium on Separation Sciences, Lodz, Poland, September 15-18, 2019  
Luigi Mondello  
Comprehensive two-dimensional liquid chromatography (LC×LC) for the analysis of bioactive compounds from foodstuffs  
Invited Oral Communication
- 1274** 25th International Symposium on Separation Sciences, Lodz, Poland, September 15-18, 2019  
Peter Q. Tranchida, Ivan Aloisi, Mariosimone Zoccali, Barbara Giocastro, Luigi Mondello  
A side-by-side evaluation of the performances of cryogenic and pneumatic forms of comprehensive 2D GC modulation  
Invited Oral Communication

- 1275** 4th EuCheMS Conference on Green and Sustainable Chemistry, Tarragona, Spain, September 22-25, 2019  
Fabio Salafia, Mariosimone Zoccali, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Apocarotenoids characterization in human blood samples by using online supercritical fluid extraction-supercritical fluid chromatography-tandem mass spectrometry  
Poster Communication
- 1276** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
D. Sciarrone, G. De Grazia, L. Mondello  
ADVANCED PREPARATIVE APPROACHES FOR THE COLLECTION AND STRUCTURE ELUCIDATION OF VOLATILE COMPONENTS FROM COMPLEX SAMPLES  
Oral Communication
- 1277** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
Paola Donato, Danilo Sciarrone, Paola Arena, Paola Dugo, Luigi Mondello  
ADVANCED LC-MS-BASED APPROACHES FOR THE INVESTIGATION OF PEPTIDES AND PROTEINS  
Oral Communication
- 1278** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
M. Zoccali, P.Q. Tranchida, L. Mondello  
ON-LINE COUPLED LIQUID CHROMATOGRAPHY–  
COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY WITH DUAL DETECTION FOR THE ANALYSIS OF MINERAL OIL IN COSMETICS  
Oral Communication
- 1279** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
F. Rigano, D. Mangraviti, P. Dugo, L. Mondello  
REIMS, A NOVEL AMBIENT MASS SPECTROMETRY METHOD FOR THE REAL-TIME IDENTIFICATION OF FOOD SAMPLES  
Oral Communication
- 1280** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
Tania M. G. Salerno, Donato Paola, Mondello Luigi  
POTENTIAL OF ON-LINE LC-FTIR HYPHENATED TECNIQUE AS A RELIABLE TOOL FOR IDENTIFICATION  
Oral Communication
- 1281** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
K. Arena, F. Cacciola, P. Dugo, L. Mondello

DETERMINATION OF THE PHENOLIC PROFILE IN BRASSICA JUNCEA OF DIFFERENT SPECIES BY COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY

Oral Communication

1282

XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019

Paola Arena, Paola Donato, Danilo Donnarumma, Paola Dugo, Luigi Mondello

RETRIEVAL AND CHARACTERISATION OF BIOACTIVE PEPTIDES FROM TUNA PROCESSING WASTE BY MEANS OF UHPLC-MS

Oral Communication

1283

XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019

Gemma De Grazia, Danilo Sciarrone, Luigi Mondello

PREPARATIVE MULTIDIMENSIONAL GAS CHROMATOGRAPHY COUPLED TO SPECTROSCOPIC ANALYSIS AS A POWERFUL APPROACH FOR THE ISOLATION AND CHARACTERIZATION OF UNKNOWN MOLECULES

Oral Communication

1284

XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019

R. La Tella, F. Rigano, P. Dugo, L. Mondello

RAPID AND RELIABLE IDENTIFICATION OF SEMI-VOLATILE COMPOUNDS BY SUPERCRITICAL FLUID CHROMATOGRAPHY COUPLED TO ELECTRON IONIZATION MASS SPECTROMETRY DETECTION

Poster Communication

1285

XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019

F. Rigano, D. Mangraviti, P. Dugo, L. Mondello

AUTOMATED SAMPLE PREPARATION WORKSTATIONS COUPLED ONLINE TO LIQUID CHROMATOGRAPHY – TANDEM MASS SPECTROMETRY FOR A COMPREHENSIVE ELUCIDATION OF LIPID PROFILE

Poster Communication

1286

XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019

A. Arigò, F. Rigano, P. Dugo, L. Mondello, A. Arigò, F. Rigano, P. Dugo, L. Mondello

LINEAR RETENTION INDEX SYSTEM APPLIED TO LIQUID CHROMATOGRAPHY AS NEW APPROACH FOR THE QUALITY CONTROL OF OXYGEN HETEROCYCLIC COMPOUNDS IN ESSENCES, COSMETICS AND FOOD

Poster Communication



- 1287** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
R. La Tella, F. Rigano, D. Mangraviti, P. Dugo, L. Mondello  
USE OF AN INTELLIGENT SAMPLING DEVICE (I KNIFE), COUPLED TO RAPID EVAPORATIVE IONIZATION MASS SPECTROMETRY TECHNOLOGY, FOR AUTHENTICITY ASSESSMENT IN PISTACHIO SAMPLES  
Poster Communication
- 1288** XXVIII Congress of the Analytical Chemistry Division, Bari, Italy, September 22-26, 2019  
B. Giocastro, M. Zoccali, P. Q. Tranchida, L. Mondello  
USE OF A NOVEL CONSUMABLE-FREE THERMAL MODULATOR WITHIN THE CONTEXT OF COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY: GAS FLOW OPTIMIZATION ASPECTS  
Poster Communication
- 1289** 6<sup>th</sup> MS Food Day, Camerino, Italy, September 25-27, 2019  
Francesco Cacciola, Katia Arena, Francesca Rigano, Paola Dugo, Luigi Mondello  
Determination of the polyphenolic fraction of food real-world samples by comprehensive two-dimensional liquid chromatography coupled to photodiode array and mass spectrometry detection  
Oral Communication
- 1290** 17<sup>th</sup> Euro Fed Lipid Congress And Expo, Seville, Spain, October 20-23, 2019  
Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello  
High throughput lipidomics analysis by high resolution chromatographic techniques combined to mass spectrometry and coupled online to automated sample preparation workstations  
Oral Communication
- 1291** 17<sup>th</sup> Euro Fed Lipid Congress And Expo, Seville, Spain, October 20-23, 2019  
Giuseppe Micalizzi, Emanuela Ragosta, Paola Dugo, Luigi Mondello  
Determination of fatty acid profile in blood collected on DBS sampling support by using a totally automatic GC method  
Poster Communication
- 1292** Shimadzu & Merck Workshop Analisi degli Alimenti, Bologna, October 22, 2019  
Paola Dugo, Luigi Mondello  
Carotenoids and apocarotenoids determination in Capsicum species by supercritical fluid extraction-supercritical fluid chromatography-triple quadrupole/mass spectrometry  
Invited Oral Communication
- 1293** Shimadzu & Merck Workshop Analisi degli Alimenti, Bologna, October 22, 2019  
Paola Dugo, Luigi Mondello

Determination of the polyphenolic fraction of *Pistacia vera* L. Kernel extracts by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Invited Oral Communication

- 1294** 9th International Symposium on Recent Advances in Food Analysis (RAFA 2019), Prague, Czech Republic, November 5-8, 2019  
Danilo Donnarumma, Francesca Rigano, Roberta La Tella, Davide Di Marco, Federica Vento, Luigi Mondello  
Identification of high added value molecules from the wastes of tuna fishery industry through MS based analytical methods  
Oral Communication
- 1295** 9th International Symposium on Recent Advances in Food Analysis (RAFA 2019), Prague, Czech Republic, November 5-8, 2019  
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello  
Reliable Characterization of Furocoumarins in Beverages and Foods through Liquid Chromatography coupled to Triple Quadrupole Mass Spectrometry in combination with the LRI system  
Poster Communication
- 1296** 6th World Congress on Medicinal and Aromatic Plants for Human and Animal Welfare (WOCMAP VI), Famagusta, Cyprus November 13-17, 2019  
Horváth Gy, Simonics D, Balázs V L, Micalizzi G, Mondello L, Kocsis B  
Screening of the anti-Haemophilus activity of different lavender oils using TLC  
Poster Communication
- 1297** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Tania Salerno, Paola Donato, Gianpietro Frison, Luigi Mondello  
Identification of New Psychoactive Substances in Seized Materials by Means of GC-FTIR Technique  
Oral Communication
- 1298** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Katia Arena, Eliane Lazzari, Elina B. Caramão, Francesco Cacciola, Paola Dugo, Luigi Mondello, Miguel Herrero  
Analysis of Aqueous Phases of Bio-oils Resulting From Pyrolysis of Different Biomasses by Two-Dimensional Comprehensive Liquid Chromatography Coupled to Mass Spectrometry  
Oral Communication
- 1299** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Paola Arena, Paola Donato, Paola Dugo, Luigi Mondello  
Hyphenated Analytical Techniques for Food Protein Analysis  
Oral Communication
- 1300** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Gemma De Grazia, Danilo Sciarrone, Luigi Mondello

Exploiting A Preparative Three Dimensional Gas Chromatographic System In Synergy With Spectroscopic Analysis To Isolate and Characterize Unidentified Impurities From A Commercial Standard.  
Oral Communication

- 1301** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Paola Arena, Paola Donato, Paola Dugo, Luigi Mondello  
In Depth Investigation of Fish Protein Hydrolysates from Tuna by products by means of Liquid Chromatography-Mass Spectrometry  
Poster Communication
- 1302** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Determination of the Metabolite Content of Brassica juncea Cultivars by Comprehensive Two-Dimensional Liquid Chromatography coupled to Photodiode Array and Mass Spectrometry Detection  
Poster Communication
- 1303** Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Tania Salerno, Paola Donato, Luigi Mondello  
The Direct Linkage of LC and Solid Phase IR Spectroscopy: Filling the Gap in Identification of Unknowns  
Poster Communication
- 1304** 49th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2019) Kyoto, Japan, December 1-5, 2019  
Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Demonstration of a Linear Retention Index system as an additional filter for reliable identification in HPLC-MS  
Poster Communication
- 1305** 11º Encontro Nacional de Cromatografia (11ENC), Caparica, Portugal, December 9-11, 2019  
Paola Dugo, Francesco Cacciola, Katia Arena and Luigi Mondello  
“Smart” Gradients for Enhancing Peak Capacity in Comprehensive Two-dimensional Liquid Chromatography under Reversed-phase Conditions: Application to Polyphenols in Food and Natural Real-world Samples  
Invited Oral Communication
- 1306** 11th Multidimensional Chromatography Workshop, Honolulu, Hawaii, January 5-7, 2020  
Luigi Mondello  
“Smart” Gradients for Enhancing Peak Capacity in Comprehensive Two-dimensional Liquid Chromatography under Reversed-phase Conditions: Application to Polyphenols in Food and Natural Real-world Samples  
Invited Oral Communication
- 1307** 16th International Symposium on Hyphenated Techniques in Chromatography and Separation technology (HTC-16), Gent, Belgium, January 29-31, 2020

Paola Dugo, Francesco Cacciola, Katia Arena, Luigi Mondello  
Exploiting Comprehensive Two-Dimensional Liquid Chromatography  
(LC×LC) for the Determination of Bioactive Compounds in Natural  
Products

Invited Oral Communication

- 1308** 16th International Symposium on Hyphenated Techniques in  
Chromatography and Separation technology (HTC-16), Gent, Belgium,  
January 29-31, 2020  
Paola Dugo, Luigi Mondello  
Carotenoids and Apocarotenoids Determination by SFE/SFC Triple  
Quadrupole Mass Spectrometry  
Invited Oral Communication
- 1309** 3<sup>rd</sup> Edition of Euro-Global Conference on Food Science and Technology  
(FAT 2020), July 13-14, 2020  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Comprehensive Two-dimensional Liquid Chromatography under Reversed-  
phase Conditions for Polyphenol analysis in Complex Food and Food-  
related Products  
Invited Oral Communication
- 1310** 16<sup>th</sup> Annual Workshop on Emerging High-Resolution Mass Spectrometry  
and LC-MS/MS Applications in Environmental Analysis and Food Safety,  
Online, October 15-16, 2020  
P.Q. Tranchida, I. Aloisi, M. Zoccali, P. Dugo, L. Mondello  
Analytical potential of comprehensive two-dimensional gas  
chromatography-high resolution time-of-flight mass spectrometry within the  
context of environmental and food analysis  
Oral Communication
- 1311** 16<sup>th</sup> Annual Workshop on Emerging High-Resolution Mass Spectrometry  
and LC-MS/MS Applications in Environmental Analysis and Food Safety,  
Online, October 15-16, 2020  
I. Aloisi, M. Zoccali, P. Dugo, P.Q. Tranchida, L. Mondello  
Cryogenically-modulated comprehensive two-dimensional gas  
chromatography-high resolution time-of-flight mass spectrometry:  
fingerprint of the unsaponifiable fraction of vegetable oils  
Poster Communication
- 1312** 16<sup>th</sup> Annual Workshop on Emerging High-Resolution Mass Spectrometry  
and LC-MS/MS Applications in Environmental Analysis and Food Safety,  
Online, October 15-16, 2020  
I. Aloisi, M. Zoccali, P.Q. Tranchida, L. Mondello  
Investigation of organic sulphur compounds in coal tar by using  
comprehensive two-dimensional gas chromatography-high resolution time-  
of-flight mass spectrometry  
Poster Communication
- 1313** 2021 On-line Forensic Symposium- Current Trends in Seized Drug  
Analysis, January 18<sup>th</sup>-22<sup>nd</sup>, 2021

Paola Donato, Tania Salerno, Carmelo Coppolino, Giampietro Frison, Luigi Mondello  
Solid-Phase GC-FTIR for the Analysis of Illicit Drug Isomers  
Invited Oral Communication

- 1314** 2021 On-line Forensic Symposium- Current Trends in Seized Drug Analysis, January 18<sup>th</sup>-22<sup>nd</sup>, 2021  
Paola Donato, Tania Salerno, Carmelo Coppolino, Giampietro Frison, Luigi Mondello  
Analysis of Synthetic Cannabinoids and Cathinones by Solid-Phase Deposition GC-FTIR  
Poster Communication
- 1315** The Chromatography Forum of Delaware Valley, Online, January 20-21, 2021  
Paola Dugo, Francesco Cacciola, Katia Arena, Luigi Mondello  
Comprehensive Two-Dimensional Liquid Chromatography (LC×LC) for the Determination of Bioactive Compounds in Natural Products  
Invited Oral Communication
- 1316** 12<sup>th</sup> Multidimensional Chromatography Virtual Workshop, February 1-3, 2021  
Tranchida, Peter Q; Aloisi, Ivan; Ferracane, Antonio; Giocastro, B; Zoccali, M.; Mondello Luigi  
Considerations on the use of split and splitless flow modulation devices in GC×GC-MS  
Oral Communication
- 1317** 12<sup>th</sup> Multidimensional Chromatography Virtual Workshop, February 1-3, 2021  
Zoccali, Mariosimone; Tranchida, Peter Q.; Mondello, Luigi  
Comunicazione orale  
Fulfilling the EU Guidance on Mineral oil analysis using LC-GC based analysis  
Oral Communication
- 1318** 2<sup>nd</sup> Edition of Global Webinar on Food Science and Nutrition (FSN 2021), February 26-27, 2021  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Unravelling Polyphenolic Composition in Complex Food and Natural Products by Comprehensive Two-dimensional Liquid Chromatography  
Invited Oral Communication
- 1319** 2<sup>nd</sup> Edition of Global Webinar on Food Science and Nutrition (FSN 2021), February 26-27, 2021  
Y. Oulad El Majdoub, F. Alibrando, F. Cacciola, K. Arena, E. Pagnotta, P. Dugo, L. Mondello  
Evaluation of chemical bioactive compounds in three cultivars of *Brassica juncea* L. by HPLC-PDA/ESI-MS

Oral Communication

- 1320** 1<sup>st</sup> European Sample Preparation e-Conference, March 11-12, 2021  
M. Zoccali, A. Arena P.Q. Tranchida, L. Mondello  
Development of a Low-Cost, Lab-Made Y-Interface for LC-GC Coupling for On-line Analysis in a Fully Automatized Way of Mineral Oils in Food Samples  
Oral Communication
- 1321** 1<sup>st</sup> European Sample Preparation e-Conference, March 11-12, 2021  
D. Donnarumma, G. Micalizzi, F. Rigano, L. Mondello  
Automatization and Miniaturization of Sample Preparation of Food and Biological Samples for Lipidomics Studies  
Oral Communication
- 1322** International Webinar on Food Science & Food Chemistry, June 4-5, 2021  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Exploiting Comprehensive Two-dimensional Liquid Chromatography for the Determination of the Polyphenolic Content of Complex Food and Natural Products  
Invited Oral Communication
- 1323** 18th GC×GC International Symposium, June 7-11, 2021  
Tania M.G. Salerno, Carmelo Coppolino, Mariosimone Zoccali, Luigi Mondello  
GC×GC-sd-FTIR/MS for Reliable Identification in the Foodomics Field  
Invited Oral Communication
- 1324** 18th GC×GC International Symposium, June 7-11, 2021  
Peter Q. Tranchida, Ivan Aloisi, Antonio Ferracane, Mariosimone Zoccali, Luigi Mondello  
Options of 1D GC, Flow-Modulation Signal-Enhanced 1D GC and Flow-Modulation GC×GC in a Single Instrument: a Proof-of-Concept  
Invited Oral Communication
- 1325** 18th GC×GC International Symposium, June 7-11, 2021  
Mariosimone Zoccali, Micaela Galletta, Paige E. Sudol, Peter Q. Tranchida, Luigi Mondello, Robert E. Synovec  
Untargeted Profiling and Differentiation of Geographical Variants of Wine Samples Using  
Headspace SPME-GC×GC-ToFMS Coupled with Tile-based Fisher Ratio Analysis  
Oral Communication
- 1326** 18th GC×GC International Symposium, June 7-11, 2021  
Benedikt A. Weggler, Lena M. Dubois, Nadine Gawlitta, Thomas Gröger, John Moncur, Steven Reichenbach, Peter Tranchida, Zhijun Zhao, Mariosimone Zoccali, Jean-François Focant  
Oral Communication

- 1327** 18th GC×GC International Symposium, June 7-11, 2021  
Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Use of Comprehensive Two-Dimensional Gas Chromatography-High Resolution Time-of-Flight Mass Spectrometry for the Investigation of Organic Sulphur Compounds in Coal Tar  
Oral Communication
- 1328** 18th GC×GC International Symposium, June 7-11, 2021  
Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Evaluation of Different Internal Diameter Modulation Columns within the Context of Solid-State Modulation  
Oral Communication
- 1329** The First International Congress on Pure and Applied Sciences, Meknes, Morocco, June 23-25, 2021  
Imane Haoujar, Mohammed Haoujar, Adil Essafi, Hicham Chairi, Luigi Mondello, Francesco Cacciola  
Production of lipids in cultivated microalgae isolated from Mediterranean Seawater  
Oral Communication
- 1330** ExTech21, Alicante online event, 30th June-2nd July 2021  
Mariosimone Zoccali, Marina Russo, Mariarita Testa Camillo, Luigi Mondello  
On-line SFE-Enantioselective-SFC-QQQ MS for the determination of chiral pesticides in hemp seeds: a proof-of-principle study  
Oral Communication
- 1331** Site Management Analytics Seminar, Merck Life Science on-line, August 23th 2021  
Luigi Mondello  
The role of a Spin-off Company in Analytical Chemistry. A fruitful collaboration with Merck Company  
Invited Oral Communication
- 1332** Site Management Analytics Seminar, Merck Life Science on-line, August 23th 2021  
Fulfilling the EU Guidance on Mineral oil analysis using LC-GC based analysis  
Mariosimone Zoccali, Luigi Mondello  
Oral communication
- 1333** Site Management Analytics Seminar, Merck Life Science on-line, August 23th 2021  
Tania Salerno, Luigi Mondello  
Gas Chromatography coupled to solid deposition Fourier Transform Infrared Spectroscopy: a useful identification tool in routine forensic casework  
Oral Communication

- 1334** Molecules 2021 Webinar Advances in Food Chemistry September 6th 2021  
Francesco Cacciola, Aziz Bouymajane, Yassine  
Oulad El Majdoub, Marina Russo, Paola Dugo, Luigi Mondello  
Characterization of Phenolic Compounds, Vitamin E and Fatty Acids from  
Monovarietal Virgin Olive Oils of “Picholine marocaine” Cultivar  
Invited Oral Communication
- 1335** 116° Congresso della Società Botanica Italiana VII INTERNATIONAL  
PLANT SCIENCE CONFERENCE (IPSC) Online, September 8-10 2021  
Emilia Cavò, Natalizia Miceli, Federica Davì, Vivienne Spadaro, Francesco  
M. Raimondo, Salvatore Ragusa, Francesco Cacciola, Yassine Oulad El  
Majdoub, Luigi Mondello, Maria Fernanda Taviano  
Phenolic constituents, antioxidant activity and toxicity assessment of the  
aerial part extracts from the infraspecific taxa of *Matthiola fruticulosa*  
(Brassicaceae) endemic to Sicily  
Oral Communication
- 1336** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA  
ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Luigi Mondello  
Recent Developments in Mass spectrometry and Cutting Edge Scientific  
Innovation to Characterize Complex Samples  
Invited Oral Communication
- 1337** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA  
ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Peter Q. Tranchida, Ivan Aloisi, Antonio Ferracane, Mariosimone Zoccali,  
Luigi Mondello  
Options of 1D GC, flow-modulation signal-enhanced 1D GC and flow-  
modulation comprehensive 2D GC in a single instrument: a proof-of-concept  
study  
Oral Communication
- 1338** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA  
ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Paola Donato, Marianna Oteri, Paola Arena, Luigi Mondello  
Triacylglycerol Fingerprinting in Vegetable Oils by means of Subcritical  
Solvent Chromatography  
Oral Communication
- 1339** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA  
ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Danilo Sciarrone, Lorenzo Cucinotta, Gemma de Grazia, Luigi Mondello  
Reliability of monodimensional vs multidimensional GC-C-IRMS data: a  
critical evaluation  
Oral Communication



- 1340** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Is There a Real Need for Multidimensional Chromatography Strategies with the Current Availability of Powerful Mass Spectrometry Platforms?  
Invited Oral Communication
- 1341** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Characterization of bioactive compounds from natural products using focusing-modulated comprehensive two-dimensional liquid chromatography coupled to mass spectrometry  
Oral Communication
- 1342** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello  
Analytical methods in clinical lipidomics: HPLC and SFC comparison for the analysis of lipid mediators in clinical samples  
Oral Communication
- 1343** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Mineral oil investigation in omega-3 rich lipid supplements by using multidimensional liquid-gas chromatography  
Oral Communication
- 1344** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Paola Arena, Francesca Rigano, Domenica Mangraviti, Danilo Donnarumma, Paola Dugo, Paola Donato, Luigi Mondello, Giuseppe Micalizzi  
A Holistic Approach to the Characterization of High-Value Generating Molecules from the Wastes of Tuna Fishery Industry  
Oral Communication
- 1345** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Lorenzo Cucinotta, Gemma de Grazia, Danilo Sciarrone Luigi Mondello  
Simultaneous Enantiomeric and Isotopic Ratio evaluation of target terpenes in *Cannabis sativa* essential oils through Enantio-MDGC-C-IRMS  
Oral Communication
- 1346** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Gemma De Grazia, Lorenzo Cucinotta, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
Evaluation of cryogenic effect for target VOCs isolation by a preparative multidimensional gas chromatographic system  
Oral Communication

- 1347** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Danilo Donnarumma, Roberta La Tella, Federica Vento, Francesca Rigano, Luigi Mondello  
Identification and quantification of toxic compounds and essential molecules in the context of tuna fishery industry waste valorization  
Oral Communication
- 1348** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
A. Ferracane, M. Zoccali, P.Q. Tranchida, L. Mondello  
Simultaneous determination of 88 multi-class pesticide residues in four vegetable matrices using reduced QuEChERS extraction and flow-modulated comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry  
Oral Communication
- 1349** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Micaela Galletta, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Evaluation of use of hydrogen as carrier gas in flow-modulation comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry  
Oral Communication
- 1350** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Roberta La Tella, Francesca Rigano, Luigi Mondello  
Evaluation of carbon-clad zirconia columns as stationary phases for superheated water liquid chromatography  
Oral Communication
- 1351** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello  
Differentiation and profiling of Morocco species belonging to Lamiaceae Family by Ambient Mass Spectrometry methods  
Oral Communication
- 1352** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Giuseppe Micalizzi, Filippo Alibrando, Federica Vento, Paola Dugo, Luigi Mondello  
Microwave distillation technique for the isolation of *Cannabis Sativa* L. essential oils and GC-MS/FID analysis for terpenes and terpenoids characterization  
Oral Communication

- 1353** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Tania M. G. Salerno, Carmelo Coppolino, Mariosimone Zoccali, Paola Donato, Luigi Mondello  
The Coupling of Gas Chromatography - Mass Spectrometry with Infrared Spectroscopy for Reliable Identification of Unknowns in Complex Samples  
Oral Communication
- 1354** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Emanuela Trovato, Adriana Arigò, Federica Vento, Paola Dugo, Luigi Mondello  
Characterization of volatile and non volatile compounds in citrus beer to evaluate product quality for food frauds prevention  
Oral Communication
- 1355** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Paola Arena, Danilo Sciarrone, Paola Dugo, Paola Donato, Luigi Mondello  
The Coupling of Silver Thiolate×Non-aqueous Reversed Phase Retention Mechanisms for the Elucidation of Triacylglycerol Profile in Borage Seed Oil Samples  
Poster Communication
- 1356** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Paola Arena, Francesca Rigano, Paola Dugo, Luigi Mondello  
Characterization of Triacylglycerols in Hemp Derived Products by means of Ultra-High Performance Liquid Chromatography Coupled to Mass Spectrometry Detection  
Poster Communication
- 1357** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Carmelo Coppolino, Tania Salerno, Paola Donato, Luigi Mondello  
HPLC-FTIR: a proof of concept  
Poster Communication
- 1358** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Carmelo Coppolino, Tania Salerno, Paola Donato, Giampietro Frison, Luca Zamengo, Luigi Mondello  
Chiral analysis of Methorphan's enantiomers by HPLC coupled with FTIR  
Poster Communication
- 1359** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Roberta La Tella, Francesca Rigano, Luigi Mondello  
Qualitative screening of non-psychoactive cannabinoids in *Cannabis Sativa* L. inflorescence by linear retention index approach using hand-portable liquid chromatography

Poster Communication

- 1360** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Yassine Oulad El Majdoub, Francesco Cacciola, Giuseppina Mandalari, Paola Dugo, Luigi Mondello  
High performance liquid chromatography coupled to mass spectrometry for the analysis of H. sabdariffa bioactive compounds in simulated human digestion model  
Poster Communication
- 1361** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Paola Donato, Paola Arena, Luigi Mondello  
Optimization of the Analytical Conditions for Reversed Phase Separation of Egg White Intact Proteins  
Poster Communication
- 1362** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Domenica Mangraviti, Francesca Rigano, Adriana Arigò, Paola Dugo, Luigi Mondello  
Preservation and Valorization of Italian Extra Virgin Olive Oils by Rapid Evaporative Ionization Mass Spectrometry  
Poster Communication
- 1363** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
M.R. Testa Camillo, M. Russo, A. Arigò, P. Dugo, L. Mondello  
Determination of coumarins, furocoumarins and polymethoxyflavones in cold-pressed *Citrus* essential oils using SFC-QqQ-MS  
Poster Communication
- 1364** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Federica Vento, Danilo Donnarumma, Emanuela Trovato, Giuseppe Micalizzi, Luigi Mondello  
Development and validation of a fast GC method for the quantification of free amino acids in biological samples  
Poster Communication
- 1365** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 4-23 Settembre 2021  
A. Ferracane, M. Galletta, G. Micalizzi, M. Zoccali, P.Q. Tranchida, L. Mondello  
Development of a reduced-scale fully-automated method to determine the fatty acid content in human blood by using a robotic station coupled with fast GC-MS  
Poster Communication

- 1366** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA-SCI 2021, on-line, 14-23 Settembre 2021  
Anna Irto, Giuseppe Micalizzi, Clemente Bretti, Mariano Morganti, Marta Venuti, Lorenzo Campagna, Concetta De Stefano, Luigi Mondello, Paola Cardiano  
Analysis on organic residues from Hellenistic and Roman pottery in ancient Taormina: the contexts from the domus in Villa San Pancrazio  
Poster Communication
- 1367** 14th World Congress on Polyphenols Applications: Spain Polyphenols 2021, on-line, September 22-24, 2021  
Oulad El Majdoub, Yassine; Mangraviti, Domenica; Rigano, Francesca; Cacciola, Francesco; Dugo, Paola; Mondello, Luigi  
HPLC-PDA and Rapid evaporative ionization mass spectrometry (REIMS) approaches for the discrimination of Lamiaceae species through the analysis of polyphenol compounds  
Oral Communication
- 1368** 5th EuChemS Conference on Green and Sustainable Chemistry (5th EuGSC), on-line, September 26<sup>th</sup>-29<sup>th</sup> 2021  
Mariosimone Zoccali, Marina Russo, Mariarita Testa Camillo, Luigi Mondello  
Determination of chiral pesticides in hemp seeds by means of on-line SFE-enantioselective-SFC-QqQ MS: a proof-of-principle study  
Oral Communication
- 1369** Separation Science: The State Of The Art, on-line, October 14th,15th,18th, 2021  
Peter Tranchida, Luigi Mondello  
Comprehensive 2D GC Instrumentation: The State of The Art and Future Prospects  
Invited Oral Communication
- 1370** Separation Science: The State Of The Art, on-line, October 14th,15th,18th, 2021  
Paige E. Sudol, Micaela Galletta, Peter Q. Tranchida, Mariosimone Zoccali, Luigi Mondello, Robert E. Synovec  
Untargeted Profiling and differentiation of Geographical Variants of Wine Samples Using HS SPME FM GC×GC ToF MS with the Support of Tile-Based Fisher Ratio Analysis  
Invited Oral Communication
- 1371** XVIII Colacro Congreso Latinoamericano de Cromatografía Y Técnicas Afines, on-line, October 11-15 2021  
Luigi Mondello  
Comprehensive Gas Chromatography for the Analysis of High Complex Samples. An Overview of different approaches.  
Invited Oral Communication

- 1372** XVIII Colacro Congresso Latinoamericano de Cromatografia Y Tecnicas Afines, on-line, October 11-15 2021  
Paola Dugo, Katia Arena, Francesco Cacciola, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography coupled to mass spectrometry for unravelling of complex natural products  
Invited Oral Communication
- 1373** XIX Convegno Nazionale Associazione Scientifica Gruppo Tossicologi Forensi Italiani (GTFI 2021), Vicenza, Italy, October 28-29, 2021  
Flavio Zancanaro, Samuela Frasson, Tania M. G. Salerno, Paola Donato, Luigi Mondello, Giampietro Frison  
Identificazione di 3 MMC e di 3 MeO PCP e relativi metaboliti in campioni non biologici e biologici in due casi di intossicazione acuta. Ruolo di LC HRAM Orbitrap MS e Solid Deposition GC FTIR  
Oral Communication
- 1374** 2<sup>nd</sup> Autumn Meeting for Young Chemists in Biomedical Sciences (AMYC-BIOMED 2021), On-line, November 3-5, 2021  
Luigi Mondello  
Innovative advanced analytical methods in biomedical sciences  
Invited Oral Communication
- 1375** 2<sup>nd</sup> Autumn Meeting for Young Chemists in Biomedical Sciences (AMYC-BIOMED 2021), On-line, November 3-5, 2021  
Antonio Ferracane, Giuseppe Micalizzi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Investigation of fatty acids content in commercially available  $\omega$ -3 dietary supplements by using a robotic work-station coupled with fast GC-MS  
Poster Communication
- 1376** 51<sup>st</sup> International Symposium on Essential Oils (ISEO 2021), On-line, November 12-14, 2021  
Luigi Mondello  
Innovative Approaches for Molecular Identification in the Flavor & Fragrances Field  
Invited Oral Communication
- 1377** 5<sup>th</sup> International Caparica Christmas Conference on Sample Treatment 2021, Caparica, Portugal, Novembre 15<sup>th</sup>-18<sup>th</sup>, 2021  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
*Pistacia vera* L. kernel extracts: determination of the polyphenolic content by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Invited Oral Communication

- 1378** International Chemical Congress of Pacific Basin Societies (Pacifichem 2021), on-line, December 16-21, 2021  
Luigi Mondello  
High duty cycle and (low-)flow modulated comprehensive 2D GC combined with quadrupole mass spectrometry: principles and applications  
Invited Oral Communication
- 1379** International Chemical Congress of Pacific Basin Societies (Pacifichem 2021), on-line, December 16-21, 2021  
Paola Dugo, Francesco Cacciola, Katia Arena, Luigi Mondello  
Exploiting microLC×LC in the characterization of vegetable extracts  
Invited Oral Communication
- 1380** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Comprehensive Two-Dimensional Liquid Chromatography as a Powerful Tool for Polyphenolic Profiling in Complex Natural Products  
Oral Communication
- 1381** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Mariosimone Zoccali, Alessia Arena, Peter Q. Tranchida, and Luigi Mondello  
Direct Analysis of Phthalate Esters in Vegetable Oils by Means of Cryogenic-Modulation GC×GC QqQ MS  
Oral Communication
- 1382** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Antonio Ferracane, Natalia Manousi, Peter Q. Tranchida, G. A. Zachariadis, Luigi Mondello, Erwin Rosenberg  
Solid-phase microextraction Arrow combined with comprehensive two-dimensional gas chromatography for the exploration of the volatile profile of whiskey samples  
Poster Communication
- 1383** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Antonio Ferracane, Mariosimone Zoccali, Peter Q. Tranchida and Luigi Mondello  
Untargeted Analysis of Volatile Compounds in Honey by Using Headspace Solid Phase Microextraction Coupled with Flow Modulated Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry  
Poster Communication

- 1384** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Characterization of bioactive compounds from berry juices using focusing-modulated LC×LC coupled to mass spectrometry  
Poster Communication
- 1385** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Analysis of Mineral Oil Hydrocarbons Contamination in Omega-3 Lipid Supplements by Means of Liquid Chromatography Hyphenated with Gas Chromatography and Flame Ionization Detector  
Poster Communication
- 1386** 13<sup>th</sup> Multidimensional Chromatography Virtual Workshop, January 31-February 2, 2022  
Micaela Galletta, Paige E. Sudol, Peter Q. Tranchida, Mariosimone Zoccali, Luigi Mondello and Robert E. Synovec  
Chemical Characterization of Wine Samples by Means of Headspace SPME Flow-Modulated GC×GC-ToF MS with the Support of Tile-Based Fisher Ratio Analysis  
Poster Communication
- 1387** 2<sup>nd</sup> Virtual Conference on Virtual Conference on Food Science & Technology, February 23-24, 2022  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Unravelling the Polyphenolic Content of Complex in Food and Natural Products by Comprehensive two-dimensional liquid chromatography  
Invited Oral Communication
- 1388** 2<sup>nd</sup> Virtual Conference on Virtual Conference on Food Science & Technology, February 23-24, 2022  
Yassine Oulad El Majdoub, Francesco Cacciola, Giuseppina Mandalari, Paola Dugo, Luigi Mondello  
High performance liquid chromatography coupled to mass spectrometry for the analysis of *H. sabdariffa* bioactive compounds in simulated human digestion model  
Oral Communication
- 1389** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
M. Zoccali, A. Arena, P.Q. Tranchida, L. Mondello  
Green and Sustainable Method for the Analysis of Phthalate Esters in Vegetable Oils by Means of GC×GC-QqQ MS  
Oral Communication



- 1390** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
A. Ferracane, N. Manousi, P.Q. Tranchida, G.A. Zachariadis, L. Mondello, E. Rosenberg  
Exploration of the Volatile Profile of Whiskey Samples Using Solid-phase Microextraction Arrow Combined with Comprehensive Two-dimensional Gas Chromatography  
Oral Communication
- 1391** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
Use of an Online LG-GC System for the Investigation of MOH Contamination in Omega-3 Fatty Acid Dietary Supplements  
A.Arena, M. Zoccali, P.Q. Tranchida, L. Mondello  
Oral Communication
- 1392** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
M. Galletta, M. Zoccali, P.Q. Tranchida, L. Mondello  
Use of Headspace SPME-GC×GC-ToF MS with Hydrogen of Carrier Gas for the Chemical Characterization of Food Volatilomes  
Poster Communication
- 1393** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
A. Ferracane, N. Manousi, A. Kabir, K.G. Furton, P.Q. Tranchida, G.A. Zachariadis, L. Mondello, V.F. Samanidou, E. Rosenberg  
Extraction and Preconcentration of Organophosphorus Pesticides from Water Samples Using In Situ Synthesized Monolithic Sol-Gel Octadecyl Capsule Phase  
Microextraction Media  
Poster Communication
- 1394** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
M.R. Testa-Camillo, M. Russo, P. Dugo, L. Mondello  
Use of Supercritical Fluids to Online Extract and Analyze Chiral Pesticides in Hemp Seeds  
Poster Communication

- 1395** 2<sup>nd</sup> European Sample Preparation e-Conference (EuSP2022) & 1<sup>st</sup> Green and Sustainable Analytical Chemistry e-Conference (GSAC2022), on-line, March 14-16 March, 2022  
Y. Oulad El Majdoub, M. Russo, I.L. Bonaccorsi, P. Dugo, L. Mondello  
Development of an Extraction Process to Obtain Flavonoid-Rich Extract from Bergamot Natural Juice  
Poster Communication
- 1396** Le indagini forensi e il contributo della spettrometria di massa, Roma, 25 Marzo 2022  
Tania M. G. Salerno, Carmelo Coppolino, Paola Donato, Flavio Zancanaro, Samuela Frasson, Giampietro Frison, Luigi Mondello  
The combined use of Solid Deposition GC-FTIR and LC-HRAM-Orbitrap-MS in forensic casework identification routine  
Oral Communication
- 1397** 19<sup>th</sup> International GC×GC Symposium, Virtual, May 29, June 2, 2022  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Determination of various types of contaminants in vegetable oils through minimal sample preparation and cryogenic-modulation GC×GC combined with triple-quadrupole mass spectrometry  
Invited Oral Communication
- 1398** 19<sup>th</sup> International GC×GC Symposium, Virtual, May 29, June 2, 2022  
Mariosimone Zoccali, Alessia Arena, Antonio Ferracane, Micaela Galletta, Peter Q. Tranchida, Luigi Mondello  
From two- to five-dimensions: an adventure within the context of comprehensive two-dimensional gas chromatography  
Invited Oral Communication
- 1399** 19<sup>th</sup> International GC×GC Symposium, Virtual, May 29, June 2, 2022  
Micaela Galletta, Luigi Mondello, Mariosimone Zoccali, Peter Q. Tranchida  
A Sustainable Method For The Characterization Of The Volatile Fraction Of *Capsicum* Peppers By HS SPME-GC×GC-ToF MS Using Hydrogen As Carrier Gas  
Poster Communication
- 1400** 19<sup>th</sup> International GC×GC Symposium, Virtual, May 29, June 2, 2022  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Use of comprehensive two-dimensional gas chromatography for the direct analysis of phthalate esters in vegetable oils  
Poster Communication
- 1401** 19<sup>th</sup> International GC×GC Symposium, Virtual, May 29, June 2, 2022  
A. Ferracane, N. Manousi, P. Q. Tranchida, G. A. Zachariadis, E. Rosenberg, L. Mondello  
Solid-phase Microextraction Arrow and Comprehensive Two-dimensional Gas Chromatography-Mass Spectrometry for the Profiling of Honey Volatiles  
Poster Communication

- 1402** Massa 2022, Carlentini, Italy, June 20-22, 2022  
P. Dugo, F. Rigano, D. Donnarumma, L. Mondello  
Lipidomic analysis in food: The role of a detailed elucidation of intact lipids in functional foods for investigating on nutritional aspects  
Invited Oral Communication
- 1403** Massa 2022, Carlentini, Italy, June 20-22, 2022  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection for characterization of bioactive compounds in food and natural products  
Oral Communication
- 1404** 4<sup>th</sup> MS Wine Day, Carlentini, Italy, June 22-24, 2022  
Luigi Mondello, Emanuela Trovato, Adriana Arigò, Paola Dugo  
Employing of linear retention indices to characterize volatile and non volatile compounds in citrus beer. A deep investigation to evaluate product quality for food frauds prevention  
Invited Oral Communication
- 1405** 4<sup>th</sup> MS Wine Day, Carlentini, Italy, June 22-24, 2022  
D. Sciarrone, A. Arigò, I. Bonaccorsi, G. De Grazia, L. Cucinotta, P. Dugo, L. Mondello  
Complementary data gathered from different chromatographic approaches for Limoncello liqueur quality control  
Oral Communication
- 1406** 4<sup>th</sup> MS Wine Day, Carlentini, Italy, June 22-24, 2022  
L. Cucinotta, R. Larcher, G. De Grazia, S. Moser, M. Paolini, A. Roncone, L. Bontempo, F. Camin, L. Mondello, D. Sciarrone  
A thorough investigation of Moscato Giallo volatiles in grapes by means of enantio multidimensional gas chromatography coupled to isotopic ratio mass spectrometry  
Oral Communication
- 1407** 4<sup>th</sup> MS Wine Day, Carlentini, Italy, June 22-24, 2022  
Gemma De Grazia, Lorenzo Cucinotta, Danilo Sciarrone, Paola Dugo, Luigi Mondello  
Characterization of commercial grape marc spirits by multidimensional gas chromatography coupled to isotope ratio mass spectrometry  
Poster Communication
- 1408** 50<sup>th</sup> HPLC 2022, International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Diego, CA, USA, June 18-23, 2022 Mariosimone Zoccali, Marina Russo, Maria Rita Testa Camillo, Luigi Mondello  
On-line SFE-enantioSFC-QqQ MS for the determination of chiral pesticides in hemp seeds  
Oral Communication

- 1409** 50<sup>th</sup> HPLC 2022, International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Diego, CA, USA, June 18-23, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Focusing-modulated comprehensive two-dimensional liquid chromatography-based quali-quantitative screening of bioactive compounds from natural products  
Oral Communication
- 1410** 50<sup>th</sup> HPLC 2022, International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Diego, CA, USA, June 18-23, 2022  
M.R. Testa Camillo, M. Russo, M. Zoccali, P. Dugo, L. Mondello  
Determination of oxygen heterocyclic compounds in cold-pressed Citrus essential oils and perfumes using supercritical fluid chromatography coupled to tandem mass spectrometry method  
Poster Communication
- 1411** XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali, Torino, Italy, 20-23 giugno 2022  
A. Irto, V. Chiaia, G. Micalizzi, D. Donnarumma, C. Bretti, C. De Stefano, P. Cardiano, L. Mondello  
Comprehensive characterization of aged lipids by using chromatographic analytical techniques coupled to mass-spectrometry detection  
Oral Communication
- 1412** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022, Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
Luigi Mondello  
An Overview for Obtaining High Pure Molecules by Coupling on-line HPLC to Preparative Multidimensional GC  
Invited Oral Communication
- 1413** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022, Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
Paola Dugo, Katia Arena, Francesco Cacciola, Luigi Mondello  
MicroLC×LC for the characterization of natural products  
Oral Communication
- 1414** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022, Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
A. Ferracane, N. Manousi, N.P. Kalogiouri, P. Q. Tranchida, G.A. Zachariadis, L. Mondello, E. Rosenberg  
Solid-phase Microextraction Arrow combined with Comprehensive Two-dimensional Gas Chromatography-Mass Spectrometry for the Profiling of Honey Volatiles  
Oral Communication

- 1415** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
Natasa P. Kalogiouri, Natalia Manousi, Antonio Ferracane, George A. Zachariadis, Stephanos Koundouras, Victoria F. Samanidou, Peter Q. Tranchida, Luigi Mondello, Erwin Rosenberg  
An optimized spme-arrow GCxGC-MS method for the investigation of wine aging and the identification of authenticity markers by chemometrics  
Oral Communication
- 1416** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
Antonio Ferracane, Natalia Manousi, Vasileios Alampanos, George Efstratiadis, Abuzar Kabir, Kenneth G. Furton, Peter Q. Tranchida, George A. Zachariadis, Luigi Mondello, Erwin Rosenberg, Victoria F. Samanidou  
A magnet integrated FPSE protocol combined with HPLC-DAD for the determination of benzoyl urea insecticides in water samples  
Poster Communication
- 1417** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
M. Galletta, Paige E. Sudol, P. Q. Tranchida, M. Zoccali, L. Mondello, Robert E. Synovec  
Using HS SPME flow-modulated GCxGC-ToFMS with the support of tile-based Fisher ratio analysis to characterize geographical variants of wine samples  
Poster Communication
- 1418** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Multi-class analysis of vegetable oil contaminants by CM GCxGC QqQ-MS/MS with a minimal sample preparation  
Poster Communication
- 1419** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
N. Manousi, A. Ferracane, A. Kabir, K. G. Furton, P. Q. Tranchida, G. Zachariadis, L. Mondello, V. F. Samanidou, E. Rosenberg  
Monolithic capsule phase microextraction combined with GC-MS for the monitoring of organochlorine pesticides in environmental water samples  
Poster Communication
- 1420** 26<sup>th</sup> International Symposium on Separation Sciences – ISSS 2022,  
Ljubljana, Slovenia, June 28<sup>th</sup> - July 1<sup>st</sup>, 2022  
A. Ferracane, N. Manousi, V. Alampanos, G. Efstratiadis, A. Kabir, K. G. Furton, P. Q. Tranchida, G. A. Zachariadis, L. Mondello, E. Rosenberg, V.F. Samanidou  
A magnet integrated FPSE protocol combined with HPLC-DAD for the determination of benzoyl urea insecticides in water samples  
Poster Communication

- 1421** 6<sup>th</sup> ChemCH Congress, Ravenna, Italy 4-8 July 2022  
Valentina Chiaia, Giuseppe Micalizzi, Danilo Donnarumma, Anna Irto, Clemente Bretti, Paola Cardiano, Concetta De Stefano, Peter Q. Tranchida, Luigi Mondello  
Gas and liquid chromatography approaches coupled to mass spectrometry for the evaluation of thermal-oxidation lipid products in ageing studies  
Poster Communication
- 1422** TRC-Forum WS 2020/2021, July 12 2022  
Luigi Mondello  
Innovative Advanced Analytical Methods in Biomedical Sciences  
Invited Oral Communication
- 1423** 52<sup>nd</sup> International Symposium on Essential Oils (ISEO 2022), Wrocław, Poland September 4-7, 2022  
Paola Dugo, Tania M. G. Salerno, Giovanna Cafeo, Luigi Mondello  
Analytical strategies for the characterization of non-volatile fraction of Citrus essential oil: applications in food and cosmetic  
Invited Oral Communication
- 1424** 52<sup>nd</sup> International Symposium on Essential Oils (ISEO 2022), Wrocław, Poland September 4-7, 2022  
Fatma Salaheldim, Hussein A. Fakhry, Daniel Strub, Lucyna Balcerzak, Emanuela Trovato, Paola Dugo, Luigi Mondello  
Egyptian Jasmine (*Jasminum grandiflorum* L.) Essential Oil Obtained by Steam Distillation  
Oral Communication
- 1425** 52<sup>nd</sup> International Symposium on Essential Oils (ISEO 2022), Wrocław, Poland September 4-7, 2022  
Fatma Salaheldin, Hussein A. Fakhry, Daniel Strub, Lucyna Balcerzak, Emanuela Trovato, Paola Dugo, and Luigi Mondello  
Comparative Evaluation of Chemical Composition and Antimicrobial Activity of Calendula (*Calendula officinalis* L.) Essential Oil and Absolute from Egypt  
Poster Communication
- 1426** 10<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2022), Prague, Czech Republic, September 6-9, 2022  
Antonio Ferracane, Natalia Manousi, Natasa Kalogiouri, Peter Q. Tranchida, George A. Zachariadis, Luigi Mondello, Erwin E. Rosenberg  
Elucidation of the volatile composition of honey samples by comprehensive two-dimensional gas chromatography-mass spectrometry combined with solid-phase microextraction  
Poster Communication

- 1427** 10<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2022), Prague, Czech Republic, September 6-9, 2022  
Natasa P. Kalogiouri, Natalia Manousi, Antonio Ferracane, George A. Zachariadis, Stephanos Koundouras, Victoria F. Samanidou, Peter Q. Tranchida, Luigi Mondello, Erwin Rosenberg  
A volatile fingerprinting strategy for wine aging authentication using SPME-arrow coupled to comprehensive GC×GC-MS combined with advanced chemometrics  
Poster Communication
- 1428** 10<sup>th</sup> International Symposium on Recent Advances in Food Analysis (RAFA 2022), Prague, Czech Republic, September 6-9, 2022  
Natalia Manousi, Antonio Ferracane, Abuzar Kabir, Kenneth G. Furton, Peter Q. Tranchida, George Zachariadis, Luigi Mondello, Erwin Rosenberg, Victoria Samanidou  
A monolithic capsule phase microextraction protocol combined with high performance liquid chromatography-diode array detection for the monitoring of benzoyl urea insecticides in apple juice samples  
Poster Communication
- 1429** 117<sup>o</sup> Congresso della Società Botanica Italiana, Bologna, Italy, September 7-10, 2022  
Maria Fernanda Taviano, Federica Davì, Rosaria Acquaviva, Giuseppe Antonio Malfa, Barbara Tomasello, Paola Arena, Salvatore Ragusa, Francesco Cacciola, Yassine Oulad El Majdoub, Luigi Mondello, Natalizia Miceli  
Phenolic profile, antioxidant and cytotoxic activity of the phenolic-rich fraction obtained from the leaves of *Brassica fruticulosa* subsp. *fruticulosa* (Brassicaceae) grown wild in Sicily  
Poster Communication
- 1430** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
P.Q. Tranchida, M. Zoccali, M. Galletta, A. Ferracane, A. Arena, L. Mondello  
THREE- AND FOUR-DIMENSIONAL GAS CHROMATOGRAPHY-MASS SPECTROMETRY BASED METHODS: WHEN AND WHY TO EXPLOIT  
Oral Communication
- 1431** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
P. Donato, T.M.G. Salerno, C. Coppolino, L. Mondello  
GC-FTIR AFFORDS RELIABLE FORENSIC EVIDENCE FOR DRUGS OF ABUSE  
Oral Communication

- 1432** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
L. Cucinotta, G. De Grazia, D. Sciarrone, L. Mondello  
THE COUPLING OF ENANTIO-SELECTIVE GAS CHROMATOGRAPHY TO ISOTOPIC RATIO MASS SPECTROMETRY: PERSPECTIVES AND THE NEED OF MULTIDIMENSIONAL GAS-CHROMATOGRAPHIC APPROACHES  
Oral Communication
- 1433** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
M. Russo, M.R. Testa Camillo, P. Dugo, L. Mondello DETERMINATION OF CHIRAL PESTICIDES IN HEMP SEEDS WITH SUPERCRITICAL FLUID CHROMATOGRAPHY  
Oral Communication
- 1434** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
DETERMINATION OF PESTICIDES IN FOOD SAMPLES THROUGH REDUCED SAMPLE PREPARATION COUPLED TO FLOW- AND CRYOGENIC-MODULATION GC×GC COMBINED WITH TRIPLE-QUADRUPOLE MASS SPECTROMETRY  
M. Zoccali, A. Arena, A. Ferracane, P.Q. Tranchida, L. Mondello  
Oral Communication
- 1435** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
F. Rigano, P. Dugo, L. Mondello  
DETAILED ELUCIDATION OF INTACT LIPIDS IN FUNCTIONAL FOODS BY EXPLOITING A NOVEL IDENTIFICATION APPROACH BASED ON LINEAR RETENTION INDEX IN LIQUID CHROMATOGRAPHY – MASS SPECTROMETRY  
Oral Communication
- 1436** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
D. Mangraviti, F. Rigano, C. Cafarella, P. Dugo, L. Mondello  
ADVANCED AMBIENT MASS SPECTROMETRY METHODS: PRINCIPLES AND APPLICATIONS ON FOOD MATRICES  
Oral Communication
- 1437** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
G. Micalizzi, D. Donnarumma, Chiara Buzzanca, F. Vento, L. Mondello  
EVALUATION OF VITAMINE D LEVEL IN BIOLOGICAL FLUIDS BY USING GAS CHROMATOGRAPHY TECHNIQUE COUPLED TO TRIPLE QUADRUPOLE MASS SPECTROMETRY  
Oral Communication



- 1438** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
K. Arena, L. Martin-Pozo, Y. Oulad El Majdoud, F. Cacciola, P. Dugo, L. Mondello  
DEVELOPMENT AND VALIDATION OF MULTI-CLASSES OF PESTICIDES IN CORN-BASED FOOD USING COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (LC×LC-MS/MS)  
Oral Communication
- 1439** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
T.M.G. Salerno, G. Cafeo, P. Dugo, L. Mondello  
UNVEILING THE OXYGEN HETEROCLYCLIC FRACTION OF CITRUS SCENTED HAND GEL SANITIZERS BY MEANS OF HPLC-MS/MS: FOCUS ON COUMARINS AND FUROCOUMARINS CONTENT AND SKIN RISK TO EXPOSURE  
Oral Communication
- 1440** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
E. Trovato, F. Vento, P. Dugo, L. Mondello  
QUANTIFICATION OF VOLATILE MARKER COMPOUNDS IN FLAVORED CITRUS PRODUCTS BY USING SPME-GC/MS  
Oral Communication
- 1441** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
D. Donnarumma, G. Micalizzi, F. Rigano, L. Mondello  
AUTOMATIC AND MINIATURIZED EXTRACTION COUPLED WITH ON LINE UHPLC-MS/MS FOR THE ANALYSIS OF VITAMIN D METABOLITES AND INTACT LIPIDS FROM DRIED BLOOD SPOT  
Oral Communication
- 1442** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
R. La Tella, F. Rigano, L. Mondello  
DEVELOPMENT OF A PROTOTYPE SYSTEM BASED ON HIGH TEMPERATURE LIQUID CHROMATOGRAPHY FOR THE DETERMINATION OF PARABENS IN COSMETIC AND FOOD SAMPLES  
Oral Communication
- 1443** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
V. Chiaia, G. Micalizzi, D. Donnarumma, A. Irto, C. Bretti, P. Cardiano, P. Q. Tranchida, L. Mondello  
CHARACTERIZATION OF IN-LAB AGED LIPIDS BY USING GAS AND LIQUID CHROMATOGRAPHY APPROACHES COUPLED TO MASS SPECTROMETRY  
Oral Communication

- 1444** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
S.E. Aita, A.L. Capriotti, A. Laganà, L. Mondello TARGETED AND UNTARGETED CHARACTERIZATION OF UNDERIVATIZED POLICOSANOLS IN HEMP INFLORESCENCE BY LIQUID CHROMATOGRAPHY-HIGH RESOLUTION MASS SPECTROMETRY  
Oral Communication
- 1445** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
G. Cafeo, T. M. G. Salerno, P. Dugo and L. Mondello  
EVALUATION OF COUMARINS, FURCOUMARINS AND POLYMETHOXYFLAVONES CONTENT IN FLAVORED BEVERAGES BY MEANS OF HPLC-MS/MS WITH THE SUPPORT OF LINEAR RETENTION INDEX APPROACH  
Poster Communication
- 1446** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
C. Cafarella, D. Mangraviti, F. Rigano, P. Dugo, L. Mondello  
SOLID PHASE MICROEXTRACTION ONLINE COUPLED TO DIRECT ANALYSIS IN REAL TIME FOR THE DIFFERENTIATION OF HIGH-QUALITY ITALIAN EXTRA VIRGIN OLIVE OILS  
Poster Communication
- 1447** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Y. Oulad El Majdoub, C. Cafarella, F. Rigano, F. Cacciola, P. Dugo, L. Mondello  
INVESTIGATION OF LIPIDS COMPOSITION IN NOVEL SPECIES OF MICROALGAE BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY AND LINEAR RETENTION INDEX APPROACHES  
Poster Communication
- 1448** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
P. Arena, F. Rigano, E. Trovato, P. Dugo, L. Mondello  
CANNABIS SATIVA PRODUCTS AS A VALUABLE SOURCE OF NUTRACEUTICALS AND FUNCTIONAL FOOD INGREDIENTS  
Poster Communication

- 1449** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Antonio Ferracane, Mariosimone Zoccali, Francesco Cacciola, Tania Maria Grazia Salerno, Peter Q. Tranchida, Luigi Mondello  
DETERMINATION OF MULTI-PESTICIDE RESIDUES IN VEGETABLE PRODUCTS USING A “REDUCED-SCALE” QUECHERS METHOD AND FLOW-MODULATED COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-TRIPLE QUADRUPOLE MASS SPECTROMETRY  
Poster Communication
- 1450** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Francesca Rigano, Roberta La Tella, Luigi Mondello  
EXPLOITING A PORTABLE CAPILLARY LIQUID CHROMATOGRAPHY INSTRUMENT FOR IN-SITU ANALYSIS OF NATURAL CANNABINOIDS  
Poster Communication
- 1451** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
F. Rigano, K. Arena, F. Cacciola, L. Mondello  
DEVELOPMENT OF A COMPREHENSIVE LIQUID CHROMATOGRAPHY METHOD COUPLED TO TANDEM MASS SPECTROMETRY FOR THE DETERMINATION OF TARGET CONTAMINANTS IN CEREAL PRODUCTS  
Poster Communication
- 1452** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
A. Arena, M. Zoccali, P.Q. Tranchida, L. Mondello  
DETERMINATION OF PHTHALIC ACID ESTERS IN VEGETABLE OILS BY DIRECT INJECTION AND CRYOGENIC-MODULATION GC×GC QqQ MS  
Poster Communication
- 1453** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
M.R. Testa Camillo, M. Russo, P. Dugo, L. Mondello  
SUPERCRITICAL FLUID CHROMATOGRAPHY COUPLED WITH TANDEM MASS SPECTROMETRY METHOD FOR THE ANALYSIS OF OXYGEN HETEROCYCLIC COMPOUND IN FRAGRANCES  
Poster Communication

- 1454** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
M. Galletta, M. Zoccali, P.Q. Tranchida, L. Mondello  
FLOW-MODULATED COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY COMBINED WITH TIME-OF-FLIGHT MASS SPECTROMETRY: USE OF HYDROGEN AS A MORE SUSTAINABLE ALTERNATIVE TO HELIUM  
Poster Communication
- 1455** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
R. La Tella, P. Iannotta, C. Manzo, L. Mondello  
UNIHEMP PROJECT: SUPERCRITICAL FLUID EXTRACTION AS GREEN ALTERNATIVE TO TRADITIONAL EXTRACTION OF NATURAL COMPOUNDS  
Poster Communication
- 1456** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
C.Coppolino, T.M.G. Salerno, P. Donato, L. Mondello  
APPLICATION OF A NEW INTEGRATED GC-FTIR/MS APPROACH FOR THE UNIVOCAL DISCRIMINATION OF REGIOISOMERS  
Poster Communication
- 1457** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
L.Cucinotta, R. Larcher, G. De Grazia, S. Moser, M. Paolini, A. Roncone, L. Bontempo, F. Camin, L. Mondello, D. Sciarrone  
A DEEP INVESTIGATION OF VOLATILES IN MOSCATO GRAPES BY MEANS OF QUALI-QUANTITATIVE, ENANTIOMERIC AND ISOTOPIC DATA  
Poster Communication
- 1458** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
L.Cucinotta, G. De Grazia, E. Trovato, L. Mondello, D. Sciarrone  
AUTHENTICITY ASSESSMENT OF VOLATILES IN AROMATIZED EXTRA VIRGIN OLIVE OILS BY MEANS OF ADVANCED ANALYTICAL APPROACHES  
Poster Communication
- 1459** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
G. De Grazia, L. Cucinotta, D. Sciarrone, P. Dugo, L. Mondello  
INVESTIGATION OF CANNABIS SATIVA L. VOLATILE FRACTION BY SIMULTANEOUS ENANTIOMERIC AND ISOTOPIC RATIO MEASUREMENTS  
Poster Communication

- 1460** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
G. De Grazia, L. Cucinotta, D. Sciarrone, P. Dugo, L. Mondello  
CRYOGENIC TRAPPING APPLIED TO THE ISOLATION OF HIGHLY VOLATILE MOLECULES BY PREPARATIVE MDGC  
Poster Communication
- 1461** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
M. Grasso, E. Trovato, Filippo Alibrando, L. Mondello  
IDENTIFICATION OF CALENDULA AND JASMINE ESSENTIAL OILS BY GAS CHROMATOGRAPHYC ANALYSIS  
Poster Communication
- 1462** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
F. Vento, E. Trovato, P. Dugo, L. Mondello  
USE OF SPME-GAS CHROMATOGRAPHY TECHNIQUE FOR THE ANALYSIS OF CHILI PEPPER VOLATILE PROFILE  
Poster Communication
- 1463** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Antonio Ferracane, Natalia Manousi, Abuzar Kabir, Kenneth G. Furton, Peter Q. Tranchida, George A. Zachariadis, Luigi Mondello, Victoria F. Samanidou, Erwin Rosenberg  
CAPSULE PHASE MICROEXTRACTION OF ORGANOCHLORINE PESTICIDES FROM ENVIRONMENTAL WATER SAMPLES UTILIZING MONOLITHIC SOL-GEL POLYETHYLENE GLYCOL-BASED MEDIA AS A FRONT-END TO GAS CHROMATOGRAPHY-MASS SPECTROMETRY  
Poster Communication
- 1464** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Filippo Alibrando, Yassine Oulad El Majdoub, Francesco Cacciola, Katia Arena, Eleonora Pagnotta, Roberto Matteo, Giuseppe Micalizzi, Laura Dugo, Paola Dugo, Luigi Mondello  
CHEMICAL CHARACTERIZATION OF THREE ACCESSIONS OF *BRASSICA JUNCEA* L. EXTRACTS FROM DIFFERENT PLANT TISSUES  
Poster Communication
- 1465** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Filippo Alibrando, Giuseppe Micalizzi, Federica Vento, Emanuela Trovato, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
GAS CHROMATOGRAPHY ANALYSIS OF CANNABIS SATIVA L. ESSENTIAL OIL OBTAINED USING A NEW MICROWAVE DISTILLATION TECHNIQUE FOR THE CHARACTERIZATION OF THE VOLATILE FRACTION

Poster Communication

- 1466** XXIX Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Milazzo, Italy, September 11-15, 2022  
Antonella Satira, Marina Russo, Maria Rita Testa Camillo, Luigi Mondello  
HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOR THE IDENTIFICATION OF IMPURITIES IN DRUGS CANDIDATES  
Poster Communication
- 1467** 14<sup>th</sup> European Pesticide Residue Workshop (EPRW 2022), Bologna, Italy, September 19-23, 2022  
Peter Q. Tranchida, Antonio Ferracane, Alessia Arena, Mariosimone Zoccali, Luigi Mondello  
Green sample preparation techniques coupled to comprehensive 2D chromatography-mass spectrometry for the analysis of pesticides in foods  
Invited Oral Communication
- 1468** 14<sup>th</sup> European Pesticide Residue Workshop (EPRW 2022), Bologna, Italy, September 19-23, 2022  
MagAntonio Ferracane, Natalia Manousi, Abuzar Kabir, Kenneth G. Furton, George A. Zachariadis, Victoria F. Samanidou, Peter Q. Tranchida, Luigi Mondello, Erwin Rosenberg  
Magnet-integrated fabric phase sorptive extraction based on dual stand-alone microextraction platforms combined with gas chromatography-mass spectrometry for multi-class pesticides determination in water samples  
Poster Communication
- 1469** 33<sup>rd</sup> International Symposium on Chromatography (ISC 2022), Budapest, Hungary, September 18-22, 2022  
Luigi Mondello  
New Frontier in Ultra Fast-GC from Theory to Practice  
Invited Oral Communication
- 1470** Global Conference on Food Science and Nutrition (GCFN 2022), On-line, September 22-24, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello, University of Messina  
Design of a comprehensive two-dimensional liquid chromatography method for analysis of pesticides in food real-world samples  
Invited Oral Communication

- 1471** SmartChem 2022, Catania, September 28-30, 2022  
Emanuela Trovato, Laura Dugo, Paola Dugo, Luigi Mondello  
Caratterizzazione Target e Untargeted in Estratti di *Rhus coriaria* L.  
(Sommacco)  
Oral Communication
- 1472** 8<sup>th</sup> International Conference on Food Chemistry and Technology, Rome,  
October 12-14, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Exploiting comprehensive two-dimensional liquid chromatography for  
pesticides determination in food real-world samples  
Invited Oral Communication
- 1473** Molecules 2022 Webinar Exploring bioactive polyphenolic compounds in  
food and natural real-world samples, October 14, 2022  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Exploring bioactive polyphenolic compounds in food and natural real-world  
samples  
Invited Oral Communication
- 1474** Molecules 2022 Webinar Exploring bioactive polyphenolic compounds in  
food and natural real-world samples, October 14, 2022  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Discovery of bioactive compounds from natural products by means of  
LC×LC-PDA/MS  
Invited Oral Communication
- 1475** 1<sup>st</sup> edition Italian School in Food Chemistry for PhD student, Pavia, Italy,  
October 17<sup>th</sup>-18<sup>th</sup> 2022  
Yassine Oulad El Majdoub, Domenica Mangraviti, Francesca Rigano,  
Francesco Cacciola, Paola Dugo, Luigi Mondello  
Discrimination of Lamiaceae species through the analysis of polyphenol  
compounds by HPLC-PDA and Rapid evaporative ionization mass  
spectrometry (REIMS) approaches  
Oral Communication
- 1476** 1<sup>st</sup> edition Italian School in Food Chemistry for PhD student, Pavia, Italy,  
October 17<sup>th</sup>-18<sup>th</sup> 2022  
Cinzia Cafarella, Domenica Mangraviti, Francesca Rigano, Paola Dugo,  
Luigi Mondello  
Direct analysis in real time for the preservation of high-quality italian extra  
virgin olive oils  
Oral Communication

- 1477** 1<sup>st</sup> edition Italian School in Food Chemistry for PhD student, Pavia, Italy, October 17<sup>th</sup>-18<sup>th</sup> 2022  
Giovanna Cafeo, Tania Maria Grazia Salerno, Paola Dugo, Luigi Mondello  
Determination of oxygen heterocyclic compounds in food matrices by HPLC-MS/MS combined with linear retention index system  
Oral Communication
- 1478** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Francesca Rigano, Luigi Mondello  
The use of linear retention index in liquid chromatography: from its application to conventional LC methods to its key role in a hand-portable Cap-LC instrument  
Invited Oral Communication
- 1479** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
M. Galletta, M. Zoccali, P. Q. Tranchida, L. Mondello  
Development of a "Green" Method for Capsicum Volatilome Investigation by using Headspace Solid-Phase Microextraction Combined with Flow-Modulated Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry Using Hydrogen as Carrier Gas  
Oral Communication
- 1480** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
G. De Grazia, L. Cucinotta, D. Sciarrone, P. Dugo, L. Mondello  
Multidimensional gas chromatography coupled to an olfactometric port-MS for enhanced trace components odour evaluation  
Oral Communication
- 1481** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
L. Cucinotta, G. De Grazia, D. Sciarrone, L. Mondello  
Chiral isotopic fractionation in essential oils: a new perspective for authenticity assessment?  
Oral Communication
- 1482** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Cinzia Cafarella, Francesca Rigano, Ghanya Al-Naqeb, Eugenio Aprea, Giovanna Ferrentino, Paola Dugo, Luigi Mondello  
Supercritical fluid extraction and chemical characterization of *Cactus opuntia ficus-indica* and *Opuntia dillenii* seeds oil in comparison with traditional solvent extraction  
Oral Communication



- 1483** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Carmelo Coppolino, Andrea Cerrato, Anna Laura Capriotti, Paola Donato, Luigi Mondello  
Recovery and Valorisation of Protein Hydrolysates from Tuna Fishery Industry Waste  
Oral Communication
- 1484** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Giovanna Cafeo, Tania Maria Grazia Salerno, Paola Dugo, Luigi Mondello  
HPLC-MS/MS method combined with Linear Retention Index system to evaluate the Oxygen Heterocyclic fraction content in *Citrus* fragranced hand gel sanitizers  
Poster Communication
- 1485** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
A Limited-Volume Solvent Extraction Step Prior to Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry for the Determination of Pesticides in Extra Virgin Olive Oil  
Poster Communication
- 1486** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Valentina Chiaia, Giuseppe Micalizzi, Danilo Donnarumma, Anna Irto, Clemente Bretti, Paola Cardiano, Luigi Mondello  
GC And HPLC Separation Techniques for the Elucidation of Aged Lipid Compounds in Archaeological Context  
Poster Communication
- 1487** Incontri di Scienza delle Separazioni, Firenze, Italy, November, 17<sup>th</sup>-18<sup>th</sup> 2022  
Maria Rita Testa Camillo, Marina Russo, Paola Dugo, Luigi Mondello  
Extraction and determination of chiral pesticides in hemp seeds by using enantioselective supercritical fluid chromatography-triple quadrupole  
Poster Communication
- 1488** Convegno Congiunto delle Sezioni Calabria e Sicilia della Società Chimica Italiana, Reggio Calabria, Italy, December 1<sup>st</sup>-2<sup>nd</sup> 2022  
Anna Irto, Salvatore G. M. Raccuia, Katia Arena, Tania M. G. Salerno, Gabriele Lando, Paola Cardiano, Francesco Cacciola, Luigi Mondello  
Determinazione di composti ad alto valore aggiunto da scarti di lavorazione del bergamotto  
Poster Communication
- 1489** Advances in Food Analysis: A Virtual Symposium, December 6-7<sup>th</sup>, 2022  
Peter Q. Tranchida, Alessia Arena, Antonio Ferracane, Micaela Galletta, Mariosimone Zoccali, Luigi Mondello  
Three- and Four-Dimensional Gas Chromatography–Mass Spectrometry in Food Analysis: When and Why to Exploit?  
Invited Oral Communication

- 1490** Advances in Food Analysis: A Virtual Symposium, December 6-7th, 2022  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Unravelling the Polyphenolic Content of Complex in Food and Natural Products by Comprehensive two-dimensional liquid chromatography  
Invited Oral Communication
- 1491** 14th Multidimensional Chromatography Workshop, January 30th - February 1st, 2023  
M. Zoccali, Alessia Arena, Antonio Ferracane, Peter Q. Tranchida, Luigi Mondello  
determination of xenobiotics in food samples through reduced sample preparation coupled to cryogenic-modulation GC×GC combined with triple-quadrupole mass spectrometry  
Invited Oral Communication
- 1492** Micaela Galletta, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Untargeted characterization of the volatile fraction and targeted determination of chiral lactones in Marsala wines by means of flow-modulation headspace SPME-chiral GC×polarGC-ToFMS  
Oral Communication
- 1493** 3rd International Virtual Conference on Food Science and Nutrition, February 2-4, 2023  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Analyzing pesticides in food real-world samples by comprehensive two-dimensional liquid chromatography  
Invited Oral Communication
- 1494** Pittcon 2023, Philadelphia, Pennsylvania, USA. March 18-22, 2023  
Francesca Rigano, Roberta La Tella, Luigi Mondello  
Different ways to make liquid chromatography “green”: water as solvent of election under analytical scale conditions and novel portable miniaturized systems  
Invited Oral Communication
- 1495** ANAKON 2023, Wien, Austria, April 11-44, 2023  
Natasa P. Kalogiouri, Antonio Ferracane, Natalia Manousi, Peter Q. Tranchida, Luigi Mondello, George A. Zachariadis, Victoria F. Samanidou, Erwin Rosenber  
An optimized SPME-GC×GC/MS volatilomics approach combined with supervised chemometrics to investigate pomegranate juice adulteration  
Poster Communication
- 1496** ANAKON 2023, Wien, Austria, April 11-44, 2023  
Antonio Ferracane, Natalia Manousi, Abuzar Kabir, Kenneth G. Furton, George A. Zachariadis, Victoria F. Samanidou, Peter Q. Tranchida, Luigi Mondello, Erwin Rosenberg  
Dual magnet-integrated fabric phase sorptive extraction combined with GC-MS for multi-class pesticide monitoring  
Poster Communication

- 1497** ANAKON 2023, Wien, Austria, April 11-44, 2023  
Natalia Manousi, Antonio Ferracane, Natasa P. Kalogiouri, Kenneth G. Furton, Peter Q. Tranchida, Luigi Mondello, George A. Zachariadis, Erwin Rosenberg, Victoria F. Samanidou, Abuzar Kabir  
Titania-based second-generation fabric phase sorptive extraction media: Synthesis, characterization, and preliminary evaluation  
Poster Communication
- 1498** XXXI Congresso Nazionale di Fitoterapia, Brescia, Italy, 28-30 Aprile, 2023  
Valutazione del contenuto fenolico, dell'attività antiossidante e della tossicità di estratti ottenuti dalle parti aeree di *Thymus capitatus* (Lamiaceae) raccolto allo stato spontaneo in Sicilia  
Emilia Cavò, Natalizia Miceli, Federica Davi, Paola Arena, Roberto Laganà Vinci, Francesco Cacciola, Luigi Mondello, Monica Ragusa, Maria Fernanda Taviano  
Poster Communication
- 1499** Extreme Chromatography Workshop, CNR, Rome, Italy, May 8, 2023  
Luigi Mondello  
Comprehensive Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry for the Analysis of Complex Food Samples  
Invited Oral Communication
- 1500** SFC Europe 2023, Basel, Switzerland, May 14-15, 2023  
Luigi Mondello, Roberta La Tella, Francesca Rigano, Paola Donato  
An assessment of the selectivity of novel porous graphitic carbon stationary phases  
Invited Plenary Oral Communication
- 1501** SFC Europe 2023, Basel, Switzerland, May 14-15, 2023  
Luigi Mondello  
On-line SFE-enantio SFC-QqQ MS for the determination of chiral pesticides in hemp seeds  
Invited Plenary Oral Communication
- 1502** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Analysis of pesticides in corn-based samples by comprehensive two-dimensional liquid chromatography  
Oral Communication
- 1503** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Marina Russo, Maria Rita Testa Camillo, Giovanna Cafeo, Paola Dugo, Luigi Mondello  
Reduced time and eco-friendly chromatographic analyses for fast quality control of oxygen heterocyclic compounds in foods  
Oral Communication

- 1504** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Francesca Rigano, Domenica Mangraviti, Paola Dugo, Luigi Mondello  
Metabolomic Profiling of Medicinal and Aromatic Plants through Ambient Mass Spectrometry Combined with Chemometrics: A Powerful Tool against Fraudulent Activities  
Oral Communication
- 1505** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Quali-quantitative screening of bioactive compounds from health food through comprehensive two-dimensional liquid chromatography  
Oral Communication
- 1506** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Domenica Mangraviti, Francesca Rigano, Cinzia Cafarella, Paola Dugo, Luigi Mondello  
Application of Direct Analysis in Real-Time Mass Spectrometry (DART-MS) and multivariate approach for the rapid and automatic evaluation of edible oils  
Oral Communication
- 1507** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Maria Rita Testa Camillo, Marina Russo, Paola Dugo, Luigi Mondello  
Determination of chiral pesticides in hemp seeds by using ON-LINE SFE-enantioselective SFC-QqQ/MS  
Oral Communication
- 1508** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Cinzia Cafarella, Francesca Rigano, Emanuela Trovato, Paola Dug, Luigi Mondello  
Cold Pressed Seed Oils as a New Source of Nutraceuticals – A Comprehensive Chemical Characterization  
Oral Communication
- 1509** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Giovanna Cafeo, Tania Maria Grazia Salerno, Marina Russ, Paola Dugo, Luigi Mondello  
Use of an HPLC-MS/MS method coupled with Linear Retention Index system to characterize the Oxygen Heterocyclic fraction in *Citrus* flavored drinks  
Oral Communication

- 1510** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Giovanna Cafeo, Marina Russo, Paola Dugo, Luigi Mondello  
Evaluation of bioactive compounds in bergamot peels and juice  
Poster Communication
- 1511** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Roberto Laganà Vinci, Katia Arena, Emanuela Trovato, Roberta La Tella, Francesca Rigano, Paola Dugo, Paolo Guarnaccia, Luigi Mondello  
New functional foods: characterisation of products derived from *Cannabis Sativa* L. by advanced chromatographic techniques  
Poster Communication
- 1512** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
Domenica Mangraviti, Danilo Donnarumma, Emanuela Trovato, Giuseppe Arcoleo, Giulia Casini, Cosimo Manzo, Paola Dugo, Luigi Mondello  
Use of magnetic ionic liquid (MIL) and Loop-mediated isothermal amplification (LAMP) for the detection of microbial agents in food: a proof of concept  
Poster Communication
- 1513** XIII Congresso Nazionale di Chimica degli Alimenti, Marsala, Italy, 29-31 Maggio, 2023  
F. Rigano, K. Arena, F. Cacciola, L. Mondello  
Development and validation of a comprehensive liquid chromatography method coupled to tandem mass spectrometry for the quantification of target contaminants in cereals  
Poster Communication
- 1514** 1° Congresso intersocietà sui prodotti vegetali per la salute Il ruolo delle piante medicinali nella medicina moderna, Padova, Italy, 15-17 Giugno, 2023  
Arena P., Miceli N., Marino A., Davì F., Cavò E., Spadaro V., Raimondo F.M., Cacciola F., Laganà Vinci R., Mondello L., Taviano M.F.  
Phenolic profile and biological activities of hydroalcoholic extracts from leaves, flowers and stems of *Sinapis pubescens* L. subsp. *pubescens* (Brassicaceae) wild from Sicily (Italy)  
Poster Communication
- 1515** 9ème édition de la Journée Arômes & Parfums, Université Cote D'Azur, Nice, France, June 16, 2023  
Paola Dugo, Marina Russo, Tania M. G. Salerno, Giovanna Cafeo, Luigi Mondello  
Characterization of oxygen heterocyclic compounds in *Citrus* essential oils and cosmetic products containing *Citrus* derivatives  
Invited Plenary Oral Communication

- 1516** HPLC 2023, 51st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Duesseldorf, Germany, June 18-22, 2023  
P. Dugo, K. Arena, F. Cacciola, L. Mondello  
Comprehensive Two-Dimensional Liquid Chromatography Coupled to Mass Spectrometry for Food Analysis  
Invited Oral Communication
- 1517** HPLC 2023, 51st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Duesseldorf, Germany, June 18-22, 2023  
P. Donato, F. Rigano, R. La Tella, C. Coppolino, P. Dugo, L. Mondello  
Investigation of a Novel Porous Graphitic Carbon Column as Stationary Phase  
in Supercritical Fluid Chromatography  
Oral Communication
- 1518** HPLC 2023, 51st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Duesseldorf, Germany, June 18-22, 2023  
C. Coppolino, T. M. G. Salerno, G. Frison, L. Zamengo, P. Donato, L. Mondello  
Determination of methorphan enantiomers in seizure drugs and biological specimens by means of chiral HPLC-MS/MS  
Oral Communication
- 1519** HPLC 2023, 51st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Duesseldorf, Germany, June 18-22, 2023  
G. Cafeo, T. M. G. Salerno, P. Dugo L. Mondello  
RP-HPLC-QqQ-MS combined with LRI system to determine oxygen heterocyclic compounds in *Citrus* fragranced hand sanitizers  
Poster Communication
- 1520** HPLC 2023, 51st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Duesseldorf, Germany, June 18-22, 2023  
Mats Josefson, Gustaf Hulthe, Hasanain Al-Abas, Marta Luciani, Tania Salerno, Carmelo Coppolino, Paola Donato, Luigi Mondello, Dario Ferracane, William W. Carson, P-O Quist  
Characterization of modified celluloses for pharmaceutical formulation by Size Exclusion Chromatography/InfraRed detection and Machine Learning  
Poster Communication
- 1521** 2<sup>nd</sup> Advances in Separataion Science, Liege, Belgium, June 28-29, 2023  
M. Zoccali, Alessia Arena, Antonio Ferracane, Peter Q. Tranchida, Luigi Mondello  
Determination of pesticides in food samples through reduced sample preparation coupled to flow- and cryogenic-modulation GC×GC combined with triple-quadrupole mass spectrometry  
Invited Oral Communication

- 1522** 2<sup>nd</sup> Advances in Separation Science, Liege, Belgium, June 28-29, 2023  
Micaela Galletta, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello Use of headspace SPME coupled with flow-modulated comprehensive two-dimensional gas chromatography (enantio×polar) with time-of-flight mass spectrometry to determine chiral lactones and characterize the volatile of Marsala wines  
Oral Communication
- 1523** 4<sup>th</sup> International Virtual Conference on Food Science & Nutrition, July 07-08, 2023  
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello  
Comprehensive two-dimensional liquid chromatography for the analysis of pesticides in corn-based samples  
Invited Oral Communication
- 1524** The 19<sup>th</sup> International Symposium on Carotenoids, Toyama, Japan, July 9-14, 2023  
Giuffrida D., Zoccali M., Dugo P., Mondello L.  
Apocarotenoids determination in *Capsicum* species and biological fluids by supercritical fluid extraction-supercritical fluid chromatography-triple quadrupole/mass spectrometry  
Invited Oral Communication
- 1525** The 19<sup>th</sup> International Symposium on Carotenoids, Toyama, Japan, July 9-14, 2023  
Jader Martínez-Girón, Coralia Osorio, Luis Eduardo Ordoñez-Santos, Francesca Rigano, Cinzia Cafarella, Luigi Mondello, Daniele Giuffrida  
Peach palm fruit (*Bactris gasipaes*) peel as a source of Provitamin A carotenoids  
Poster Communication
- 1526** Essential Oil Science at doTerra, on-line, August 2<sup>nd</sup>, 2023  
Luigi Mondello  
Advanced Analytical Methods for the Analysis of Essential Oils  
Invited Oral Communication
- 1527** XII Argentine Congress of Analytical Chemistry, San Juan, Argentina, September 12-15, 2023.  
Paola Dugo, Katia Arena, Francesco Cacciola, Luigi Mondello  
Exploiting multidimensional liquid chromatography capabilities in natural products analysis  
Invited Oral Communication
- 1528** 118<sup>o</sup> Congresso della Società Botanica Italiana, Pisa, Italy, September 13-16, 2023  
Paola Arena, Federica Davì, Natalizia Miceli, Emilia Cavò, Vivienne Spadaro, Francesco Maria Raimondo, Francesco Cacciola, Roberto Laganà Vinci, Luigi Mondello, Maria Fernanda Taviano  
Evaluation of the antioxidant properties of fractions from the flower hydroalcoholic extract of *Sinapis pubescens* L. subsp. *pubescens* (*Brassicaceae*) grown wild in Sicily (Italy)

Poster Communication

- 1529** 118° Congresso della Società Botanica Italiana, Pisa, Italy, September 13-16, 2023  
Anna Cacciola, Giuseppe Micalizzi, Yassine Oulad El Majdoub, Filippo Alibrando, Francesco M. Raimondo, Luigi Mondello, Maria Paola Germanò, Francesco Cacciola  
Chemical characterization and evaluation of the antioxidant properties of *Anthemis parlatoresana* Raimondo, Bajona, Spadaro & Di Gristina (Asteraceae)  
Poster Communication
- 1530** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Danilo Sciarrone, Gemma De Grazia, Lorenzo Cucinotta, Luigi Mondello  
Tridimensional gas chromatographic system coupled to an olfactometric port and FID/MS detection for the quali-quantitative and odour evaluation of trace components  
Oral Communication
- 1531** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Marina Russo, Maria Rita Testa Camillo, Giovanna Cafeo, Antonella Satira, Patrik Appelblad, Romana Rigger, Paola Dugo, Luigi Mondello  
Use of liquid and supercritical fluid chromatography for determination of coumarins, furocoumarins, and polymethoxyflavones  
Oral Communication
- 1532** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Tania M. G. Salerno, Carmelo Coppolino, Lorenzo Cucinotta, Paola Donato, Luigi Mondello  
Boosting the confidence in identification in the Flavour and Fragrance field via a Gas Chromatography – Mass Spectrometry – Fourier Transform Infrared Spectroscopy instrument  
Oral Communication
- 1533** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Lorenzo Cucinotta, Gemma De Grazia, Danilo Sciarrone, Luigi Mondello  
Enantio-selective multidimensional gas chromatography coupled to isotopic ratio mass spectrometry for the authenticity assessment of *Citrus* essential oils  
Oral Communication



- 1534** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Antonio Ferracane, Micalizzi Giuseppe, Filippo Alibrando, Leonard M Sidisky, Luigi Mondello  
About the use of alternative carrier gasses in gas chromatography for analysis of Citrus essential oils through the use of flame ionization detector and mass spectrometry  
Oral Communication
- 1535** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
Assessment and challenges of mineral oil contamination in *Citrus* essential oils  
Oral Communication
- 1536** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Cinzia Cafarella, Francesca Rigano, Emanuela Trovato, Paola Dugo, Luigi Mondello  
Comprehensive Chemical Characterization of Unconventional Cold Pressed Seed Oils  
Oral Communication
- 1537** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Giovanna Cafeo, Marina Russo, Paola Donato, Paola Dugo, Luigi Mondello  
A fast and eco-friendly HPLC-MS/MS method to determine oxygen heterocyclic compounds in Citrus essential oils  
Oral Communication
- 1538** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Giuseppe Micalizzi, Valentina Chiaia, Filippo Alibrando, Pietro Maida, Luigi Mondello  
Characterization of the volatile profile of essential oil samples distilled from drug type *Cannabis Sativa* L. flowering tops  
Poster Communication
- 1539** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
IKnife Based on Rapid Evaporative Ionization Mass Spectrometry Technology for the Safeguard of Saffron Quality  
Francesca Rigano, Cinzia Cafarella, Domenica Mangraviti, Carmela Sottile, Paola Dug, Luigi Mondello  
Poster Communication

- 1540** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Domenica Mangraviti, Francesca Rigano, Paola Dugo, Luigi Mondello  
Differentiation and Characterization of Aromatic Moroccan Plants by Ambient Mass Spectrometry Combined with Chemometrics  
Poster Communication
- 1541** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Roberta La Tella, Francesca Rigano, Paola Dugo, Luigi Mondello  
Fast and Reliable Identification of Non-Volatile Residue of Citrus Essential Oils by Supercritical Fluid Chromatography Coupled with Electron Ionization Mass Spectrometry  
Poster Communication
- 1542** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Antonella Satira, Marina Russo, Paola Dugo, Luigi Mondello  
Development of an environmental-friendly SFC/PDA for the quantification of oxygen heterocyclic compounds in cold-pressed Citrus essential oils  
Poster Communication
- 1543** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Maria Rita Testa Camillo, Marina Russo, Paola Dugo, Luigi Mondello  
Analysis of oxygen heterocyclic compound in cold-pressed *Citrus* essential oils and fragrances using supercritical fluid chromatography coupled to tandem mass spectrometry method  
Poster Communication
- 1544** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Federica Vento, Emanuela Trovato, Domenica Mangraviti, Hussein A. Fakhry, Fatma Salaheldin, Paola Dug, Luigi Mondello  
Characterization of the essential oil, absolute and extract of Egyptian Calendula (*Calendula officinalis* L.)  
Poster Communication
- 1545** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Federica Vento, Filippo Alibrando, Giuseppe Micalizzi, Marina Russo, Ivana Bonaccorsi, Cristian Reale, Paola Dugo, Luigi Mondello  
Evaluation of Volatile Fraction and Oxygen Heterocyclic Compounds of Mandarin essential oils  
Poster Communication

- 1546** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Federica Vento, Filippo Alibrando, Giuseppe Micalizzi, Marina Russo, Ivana Bonaccorsi, Elisa Irrera, Paola Dugo, Luigi Mondello  
Evaluation of Volatile Fraction and Oxygen Heterocyclic Compounds of sweet orange essential oils  
Poster Communication
- 1547** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Filippo Alibrando, Giovanna Cafeo, Marina Russo, Paola Dugo, Luigi Mondello  
Chemical characterization of Finger Lime (*Citrus australasica* L.) essential oil and hexane extract  
Poster Communication
- 1548** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Filippo Alibrando, Federica Vento, Giuseppe Micalizzi, Marina Russo, Ivana Bonaccorsi, Micaela Galletta, Paola Dugo, Luigi Mondello  
Bergamot essential oil: characterization of volatile fraction, Oxygen Heterocyclic Compounds and enantiomeric distribution of volatile components  
Poster Communication
- 1549** 53rd International Symposium on Essential Oils (ISEO 2023), Milazzo, Italy, September 13-16, 2023  
Filippo Alibrando, Federica Vento, Giuseppe Micalizzi, Marina Russo, Ivana Bonaccorsi, Valentina Chiaia, Paola Dugo, Luigi Mondello  
Lemon essential oil: characterization of volatile fraction, Oxygen Heterocyclic Compounds and enantiomeric distribution of volatile components.  
Poster Communication
- 1550** 29th International Symposium on Electro- and Liquid Phase- Separation Techniques (ITP 2023), San Felice Circeo, Italy, September 13-17, 2023  
Laura Martín-Pozo, Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Development and validation of a multi-class analysis of pesticides in corn products using comprehensive two-dimensional liquid chromatography-tandem mass spectrometry  
Oral Communication
- 1551** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
P.Q. Tranchida, M. Zoccali, A. Arena, M. Galletta, A. Ferracane, L. Mondello  
COMPREHENSIVE 2D GAS CHROMATOGRAPHY 30-PLUS YEARS ONWARDS: HAS IT FULFILLED THE EXPECTATIONS?  
Oral Communication

- 1552** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
F. Rigano, D. Mangraviti, C. Cafarella, P. Dugo, L. Mondello  
THE POTENTIAL OF AMBIENT MASS SPECTROMETRY  
COMBINED WITH CHEMOMETRICS FOR THE ASSESSMENT OF  
FOOD AUTHENTICITY  
Oral Communication
- 1553** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
P. Donato, F. Rigano, R. La Tella, P. Dugo, L. Mondello  
RETENTION PROPERTIES OF A POROUS GRAPHITIC CARBON  
COLUMN AS STATIONARY PHASE IN SUPERCRITICAL FLUID  
CHROMATOGRAPHY  
Oral Communication
- 1554** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
D. Sciarrone, L. Cucinotta, G. De Grazia, L. Mondello  
EVALUATION OF TRACE ODOUR COMPONENTS BY MEANS OF  
A NOVEL 3D GC SYSTEM COUPLED TO OLPHACTOMETRIC, FID  
AND MS DETECTION  
Oral Communication
- 1555** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
M. Zoccali, A. Arena, P.Q. Tranchida, L. Mondello  
ON-LINE LIQUID-GAS CHROMATOGRAPHY-TANDEM MASS  
SPECTROMETRY FOR POLYCYCLIC AROMATIC  
HYDROCARBONS ANALYSIS IN EXTRA-VIRGIN OLIVE OIL  
Oral Communication
- 1556** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
A. Ferracane, M. Zoccali, P.Q. Tranchida, L. Mondello  
A SIMPLE DILUTION AND SHOOT: LOW-PRESSURE GAS  
CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY FOR THE  
DETERMINATION OF PHTHALATES IN EXTRAVIRGIN OLIVE OIL  
Oral Communication
- 1557** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
A. Arena, M. Zoccali, A. Ferracane, M. Obkircher, H. Sprecher, P.Q. Tranchida, L. Mondello  
CRYOGENIC MODULATION GC×GC-QqQMS FOR PESTICIDES  
DETERMINATION IN HEMP SEED OIL  
Oral Communication

- 1558** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
V. Chiaia, G. Micalizzi, D. Donnarumma, A. Irto, C. Bretti, P. Cardiano, L. Mondello  
THERMAL DEGRADATION CHEMISTRY OF LIPIDS: AN AGEING STUDY ON EVOO SAMPLES BY MEANS OF GAS AND LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY TECHNIQUES  
Oral Communication
- 1559** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
C. Coppolino, T. M. G. Salerno, G. Frison, L. Zamengo, P. Donato, L. Mondello  
METHOD FOR DIRECT ENANTIOMER DETERMINATION OF METHORPHAN IN SEIZED DRUGS AND BIOLOGICAL SPECIMENS BY MEANS OF CHIRAL HPLC-MS/MS  
Oral Communication
- 1560** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
M. Galletta, M. Zoccali, P. Q. Tranchida, L. Mondello  
UNTARGETED PROFILING AND TARGETED DETERMINATION OF CHIRAL LACTONES IN MARSALA WINES USING HEADSPACE SPME FLOW-MODULATED COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY (ENANTIO×POLAR) WITH TIME-OF-FLIGHT MASS SPECTROMETRY  
Oral Communication
- 1561** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
L. Cucinotta, D. Sciarrone, L. Mondello  
HYDROGEN AS CARRIER GAS FOR A COST EFFECTIVE PREPARATIVE MULTIDIMENSIONAL GAS CHROMATOGRAPHIC SYSTEM  
Poster Communication
- 1562** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
M. Zoccali, A. Ferracane, A. Arena, G. Micalizzi, L. Mondello  
RAPID AND LIMITED-VOLUME SOLVENT-EXTRACTION COUPLED TO GC×GC-QQQ MS FOR PESTICIDES DETERMINATION IN CANNABIS PRODUCTS  
Poster Communication

- 1563** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
G. Micalizzi, A. Ferracane, F. Alibrando, L. Mondello  
USING NITROGEN AND HYDROGEN AS ALTERNATIVE CARRIER GASES IN GAS CHROMATOGRAPHY COMBINED WITH FLAME IONIZATION DETECTOR AND MASS SPECTROMETRY.  
Poster Communication
- 1564** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
A. Ferracane, M. Zoccali, A. Arena, G. Micalizzi, L. Mondello  
MULTI-PESTICIDE RESIDUES DETERMINATION IN HEMP INFLORESCENCES USING A “SCALED” QuEChERS AND FM GC×GC-QqQMS  
Poster Communication
- 1565** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
C. Coppolino, T.M.G. Salerno, A. Ferracane, M. Zoccali, P.Q. Tranchida, P. Donato, L. Mondello  
FOURIER TRANSFORM INFRARED SPECTROSCOPY (FTIR) COUPLED TO COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY (GC×GC-sd-FTIR): A POWERFUL TOOL FOR LIPIDOMICS STUDIES  
Poster Communication
- 1566** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
A. Arena, M. Zoccali, P.Q. Tranchida, L. Mondello  
MULTIDIMENSIONAL LIQUID-GAS CHROMATOGRAPY FOR THE EVALUATION OF MINERAL OIL CONTAMINATION IN CITRUS ESSENTIAL OILS  
Poster Communication
- 1567** XXX Congresso della Divisione di Chimica Analitica, Città Del Vasto, Italy, September 17-21, 2023  
F. Rigano, K. Arena, F. Cacciola, P. Dugo, L. Mondello  
DEVELOPMENT AND VALIDATION OF A MULTI-CLASS METHOD FOR THE ANALYSIS OF PESTICIDES IN CEREALS BY COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY  
Poster Communication
- 1568** 13th ICBB International Conference on Biotechnology and Bioengineering, On-line, September 28-30, 2023  
Alessia Tropea, Donatella Spadaro, Daniele Giuffrida, Juan Pablo Ruiz-Sanchez, Julio Montañez, Lourdes Morales-Oyervides, Laurent Dufossé, Giuseppe Calogero, Luigi Mondello  
Natural microbial dyes: advantages and prospectives for DSSC development  
Invited Oral Communication

- 1569** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Lorenzo Cucinotta, Elisa Irrera, Francesca Cannizzaro, Tania Maria Grazia Salerno, Danilo Sciarrone, Luigi Mondello  
Evaluating More Sustainable Carrier Gases In Place Of Helium In The Field Of Preparative Multidimensional Gas Chromatography  
Oral Communication
- 1570** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Roberta La Tella, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello  
Porous Graphitic Carbon Stationary Phase: High Temperature Liquid Chromatography (HTLC) vs High Temperature Supercritical Fluid Chromatography (HTSFC)  
Oral Communication
- 1571** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello  
A Fully Automated Multidimensional Method for Polycyclic Aromatic Hydrocarbons Determination in Olive Oil  
Oral Communication
- 1572** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Micaela Galletta, Audrey Combès, Valérie Pichon, Peter Q. Tranchida, Luigi Mondello  
Aptamer-based sorbents for the selective extraction of mycotoxines from urine samples  
Oral Communication
- 1573** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Carmelo Coppolino, Lorenzo Cucinotta, Tania Maria Grazia Salerno, Danilo Sciarrone, Paola Donato, Luigi Mondello  
Application of a new integrated GC-FTIR/MS approach for the univocal cis/trans fatty acid isomer discrimination  
Oral Communication
- 1574** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Giovanna Cafeo, Marina Russo, Paola Dugo, Luigi Mondello  
Development of a fast and environmentally sustainable HPLC-QqQ-MS method to characterize Oxygen Heterocyclic Compounds in *Citrus* products  
Oral Communication
- 1575** Incontri di Scienza delle Separazioni, Termoli, October 12-13, 2023  
Danilo Sciarrone, Lorenzo Cucinotta, Elisa Irrera, Francesca Cannizzaro, Tania Maria Grazia Salerno, Luigi Mondello  
Cryogenic Trapping of Highly Volatile Molecules by means of Preparative Multidimensional Gas Chromatography  
Poster Communication

- 1576** 31<sup>st</sup> International Symposium on the Chemistry of Natural Products and 11<sup>th</sup> International Congress on Biodiversity, Naples, October 15-19, 2023  
Giuseppe Micalizzi, Francesca Rigano, and Luigi Mondello  
Advanced Analysis of Lipids in Food Samples using Innovative Chromatographic and Mass Spectrometric approaches  
Invited Oral Communication
- 1577** XXII Meeting of the Spanish Society of Chromatography and Related Techniques, S'Arenal, Mallorca, October 16-18, 2023  
L. Martín-Pozo, K. Arena, F. Cacciola, P. Dugo, L. Mondello  
Analysis of pesticides in corn products using comprehensive two-dimensional liquid chromatography-tandem mass spectrometry: method development and validation  
Poster Communication
- 1578** Convegno Congiunto delle Sezioni Sicilia e Calabria della Società Chimica Italiana, Palermo, Italy, December 11-12, 2023  
Luigi Mondello  
Advanced Multidimensional Separations as Virtual Imaging Techniques for Reliable Identification of Unknown Molecules  
Invited Oral Plenary Communication
- 1579** Austrian Summit on Natural Products, Seefeld, Tyrol, Austria March 3-6, 2024  
Luigi Mondello  
Advanced analysis of lipids in food using multidimensional comprehensive chromatography approaches  
Invited Oral Plenary Communication
- 1580** Analytica Munich, Munich, Germany, April 9-12, 2024  
L. Mondello  
The Fascinating World of Fast Separation Using Narrow-Bore Columns from Theory to Practice.  
Invited Oral Communication
- 1581** Fondazione "I lineei per la scuola", Polo Camerino - Scienze 2023/2024,  
L. Mondello, M. Zoccali  
Rischio chimico-Biocidi  
Invited Oral Communication
- 1582** 1<sup>st</sup> Symposium of Biotechnological Colorant, Araraquara, Brazil, June 19-20, 2024  
Alessia Tropea, Donatella Spadaro, Ilaria Citro, Stefano Trocino, Daniele Giuffrida, Francesca Rigano, Lourdes Morales-Oyervides, Thorsten Brinkhoff, Till Tiso, Laurent Dufossé, Giuseppe Calogero, Luigi Mondello  
Natural microbial pigments implementation for new energy suppliers  
Oral Communication