



Università  
degli Studi di  
Messina

DIPARTIMENTO DI SCIENZE CHIMICHE,  
BIOLOGICHE, FARMACEUTICHE  
ED AMBIENTALI

**Prof. Luigi Mondello**

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## ***SHORT CURRICULUM VITAE***

### **Luigi Mondello**

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Prof. Dr. Luigi Mondello is Full Professor of Analytical Chemistry at the Chemical, Biological, Pharmaceutical and Environmental Sciences Department of the University of Messina, Italy. He received a degree in Chemistry from the University of Messina in 1991. Prof. Mondello teaches the course of Analytical Chemistry at the Chemical, Biological, Pharmaceutical and Environmental Sciences Department of the University of Messina and at the University Campus Bio-Medico in Rome, Italy. He has been Deputy for Research (Science and Technology Area) at the University of Messina, and he is actually member of the Teaching Board of the Doctorate Course on “Chemistry Sciences”.

He is the author of around 800 scientific publications (research articles, book chapters, and reviews, Scopus) and 1757 conference presentations (of which 254 invited/plenary lectures), co-editor of the book “*Multidimensional Chromatography*” (John Wiley & Sons), co-editor of the book “*Citrus oil: Composition, Advanced Analytical Techniques, Contaminants, and Biological Activity*” (CRC Press - Taylor & Francis Group), editor of the book “*Comprehensive Chromatography in Combination with Mass Spectrometry*”, (“Wiley-Interscience Series on Mass Spectrometry”), and he has

been chairman and invited lecturer in national and international congresses and meetings. He has been Technical Director of Chromaleont s.r.l. Company incubated at the University of Messina until 10 March, 2020.

His research interests include high-resolution chromatography techniques (HRGC, HPLC, HRGC-MS, HPLC-MS, OPLC) and the development of hyphenated (LC-GC-MS, GC-GC) and multidimensional “comprehensive” (GC×GC, LC×LC, LC-GC×GC) with particular emphasis on coupling with mass spectrometry (hybrid, high-resolution, triple quadrupole, ion mobility spectrometers) and their application to the study of constituents and contaminants of complex natural matrices; the design of dedicated software for the processing of two-dimensional data and spectral libraries. His research is also focused on the development of sustainable analytical methods, including supercritical fluid-based extraction and separation, and the development of LC-, GC-, and GC×GC hyphenated instrumentation coupled to MS and solid-deposition FTIR.

Prof. Mondello is President of the Permanent Scientific Committee of the International Symposium on Essential Oils (ISEO), and he is Member of the Organizing Committee of the Conference "Micro and Nanoplastics: Impact, Traceability, Mitigation Strategies" for the Accademia Nazionale dei Lincei and the "Guido Donegani" Foundation. He has been member of the organizing committees of national and international meetings and he is permanent member of the scientific committee of the: “22<sup>nd</sup> International Symposium on Separation Sciences” (ISSS 2016), “18<sup>th</sup> International Symposium on Advances in Extraction Technologies” (ExTech 2016), “39<sup>th</sup> International Symposium on Capillary Chromatography and the 12<sup>th</sup> GC×GC Symposium” (ISCC&GC×GC 2015), “20<sup>th</sup> International Symposium on Separation Sciences” (ISSS 2014), “37<sup>th</sup> International Symposium on Capillary Chromatography and the 10<sup>th</sup> GC×GC Symposium” (ISCC&GC×GC 2013), “12<sup>th</sup> International Symposium on Advances in Extraction Technologies” (ExTech 2010), “16<sup>th</sup> International Symposium on Separation Sciences” (ISSS 2010), “XII Congresso Nazionale di Chimica dell’Ambiente e dei Beni Culturali (2010), “11<sup>th</sup> International Symposium on Separation Sciences” (ISSS 2005). He has been member of the Scientific Committee of the “Workshop Symposium on Analytical and Preparative Enantioseparation” (Enantioseparation 2007); “International Symposium on Capillary Chromatography” (ISCC), “International Symposium on Essential Oils” (ISEO), “International Symposium on Hyphenated Techniques in Chromatography and

*Hyphenated Chromatographic Analyzers*” (HTC), “*Brazilian Symposium on Chromatography and Related Techniques*” (SIMCRO), “*Congresso Latino-Americano de Cromatografia e Técnicas Relacionadas*” (COLACRO); He has been Chairman of the congresses: “*53<sup>rd</sup> International Symposium on Essential Oils*” (ISEO2023), “*42<sup>nd</sup> International Symposium on Capillary Chromatography and 15<sup>th</sup> GC×GC Symposium*” (ISCC&GC×GC 2018), “*40<sup>th</sup> International Symposium on Capillary Chromatography and 13<sup>th</sup> GC×GC Symposium*” (ISCC&GC×GC 2016), “*39<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and the 12<sup>th</sup> GC×GC Symposium*”, Forth Worth (Dallas), “*38<sup>th</sup> International Symposium on Capillary Chromatography and 11<sup>th</sup> GC×GC Symposium*” (ISCC&GC×GC 2014), “*37<sup>th</sup> International Symposium on Capillary Chromatography (ISCC) and the 10<sup>th</sup> GC×GC Symposium*”, Palm Springs, USA, “*Incontri di Scienza delle Separazioni*” (2013), “*36<sup>th</sup> International Symposium on Capillary Chromatography and 9<sup>th</sup> GC×GC Symposium*” (ISCC&GC×GC 2012), “*14<sup>th</sup> International Symposium on Advances in Extraction Technologies*” (ExTech 2012), “*35<sup>th</sup> International Symposium on Essential Oils*” (ISEO 2004); he has been Co-Chairman of the “*34<sup>th</sup> International Symposium on Capillary Chromatography*” (ISCC 2012).

Prof. Mondello is President of the Italian Chemistry Society (SCI) for the triennium (2026-2028). He has been President of the Division of Analytical Chemistry of the Italian Chemical Society (SCI) for the three-year period 2022-2024. He has been Vice President of the same Division (triennium 2019-2021), Coordinator of the Italian Separation Science Group of the Italian Chemical Society (triennium 2016-2018), member of the expert team of “Chromedia” (Chromatography Knowledge Base), member of the “*International Committee for Excellence in Food and Nutrition*” (University Campus Bio-Medico, Rome, Italy), co-president and co-founder of the “*Messina Institute of Technology (MeIT)*” and of “*The Mediterranean Separation Science Foundation Training and Research Center*”; he has been member of the Central Technical Committee of the National System for the Accreditation of the Laboratory (ACCREDIA) from 2007-2022, has been member of the Consultant Committee for Biocides of the Italian Ministry for Health, member of the Technical Committee for the Didactical Coordination of the Degree Course on Human diet and nutrition sciences at the University Campus Bio-Medico in Rome, Italy, member of the

Scientific Committee of the Instituto Internacional de Cromatografia (IIC), Sao Paulo, Brasile.

He is member since 2026 of the IFEAT Scientific Panel of Experts (International Federation of Essential Oils and Aroma Trades) and, since 2023, of the Academy of Sciences of the Institute of Bologna. Section I. Mathematical, Physical, Chemical and Geological Sciences. Non-Resident Correspondent Academicians, Committee Member Sample Preparation Study Group “The European Chemical Society-Division of Analytical Chemistry (EuChemS-DAC)”. Since 2022 he is Delegate of the Division of Analytical Chemistry of the Italian Chemical Society (SCI), and member of the European Chemical Society (EuChemS), Division of Analytical Chemistry (DAC). Since 2021 he is Member of the Scientific Committee of the European Industrial Hemp Association (EIHA).

Professor Mondello is Editor in Chief of the “*Journal of Essential Oil Research*” (Taylor & Francis), and Editor of Green Analytical Chemistry (Elsevier), he has been Editor of Journal of Separation Science (Wiley-VCH), of “Separation Science Plus” (Wiley-VCH), “Flavour and Fragrance Journal” (John Wiley & Sons), Food Analytical Methods (Springer), Analytical and Bioanalytical Chemistry (ABC) Springer, and member of the Advisory Board of *Mass Spectrometry Reviews* (John Wiley&Sons), *LC-GC Europe* (Advanstar), *Separation Science* (Europe Edition), *Scientia Chromatographica* (Istituto Internacional de Cromatografia (IIC) ed Editora Atomo), *The Analytical Scientist* (Texere); he is member of the Advisory Board of TrAC Trends in Analytical Chemistry (Elsevier), Advances in Sample Preparation (Elsevier), and serves as reviewer for 80 different Journals in the field of Analytical Chemistry and Food Chemistry.

In February 2006 (York, U.K.) he was awarded with the “*HTC-Award for the most outstanding and innovative work in the field of hyphenated chromatographic techniques*”, from the Flemish Chemical Society. In May 2008 (Riva del Garda, Italy) he was awarded from “The Chromatographic Society” with the “Silver Jubilee Medal for his Considerable Contribution to the Development of Separation Sciences”. In October 2008 during the "Congresso Latino-Americano de Cromatografia e Técnicas Relacionadas" helded in Florianòpolis, Brasil the "Instituto Internacional de Cromatografia" has assigned to Prof. Luigi Mondello the COLACRO Medal for his

contribution to the development and diffusion of the Chromatographic Techniques. In September 2012 during the Analytical Chemistry Division of the Italian Chemical Society Conference in Elba, Italy, he was awarded with the “Liberti Medal”. He has been awarded in “The Analytical Scientist Innovation Awards (TASIA 2013 and 2015, 2016) and in September 2014 he has been the recipient of the IFEAT Medal by the International Federation of Essential Oils & Aroma Trades. He received the GC×GC Lifetime Achievements Award in 2016 at the 13<sup>th</sup> GCxGC Symposium in Riva del Garda Italy. On May 2017, at the 41<sup>st</sup> International Symposium on Capillary Chromatography in Fort Worth Texas (USA) he received the Golay Award. In September 2017 has received the “Robert Kellner Lecture Award from the Division of Analytical Chemistry of the European Chemical Society (EuChemMS). In May 2019 he received the 2019 Herbert J. Dutton Award from the Analytical Division of the AOCS. In September 2020 he was awarded with the Prof. A. Waksmundzki Medal Award from the Presidium of the Committee of the Analytical Chemistry of the Polish Academy of Science and Polish Chemical Society. In December 2021 he was bestowed the “A.J.P. Martin Medal 2022” from “The Chromatographic Society”, “For his outstanding contributions to the advancement of separation science”. In September 2024 he received the “Nernst European Award” from the “European Tswett-Nernst Award Board” and the “Central European Group for Separation Sciences” (CEGSS).

He is present in the list of the “Top Italian Scientist” (via-Academy) with a relative position of 46 on about 439 under the Chemistry section; ScholarGPS2025 ranks him 15<sup>th</sup> and 64<sup>th</sup> among scientists in the world for careers in gas chromatography and chromatography fields respectively, and 3<sup>rd</sup> in the last five years in chromatography field. The Analytical Scientist Journal has included his name in the “Power List” among the top 100 most influential people in the analytical sciences 2013 and 2015 and in 2017. The Analytical Scientist Journal has nominated him in “The Analytical Scientist Power List” - Around the World in 60 Scientists 10 analytical movers and shakers from each continent (2020); the “The Analytical Scientist Power List” - The Top 100 Performers in Analytical Science (2021); “The Analytical Scientist Power List”- The top ten worldwide scientist in the field of Separation Science and The Top Ten of Leaders and Advocates for the ten years anniversary of the Analytical Science (2023). Listed in the “World’s Top 2% Scientists” for the 2023, 2024 and 2025. The Analytical

Scientist Journal nominated him in “The Power List 2025 – Leading Voices Edition” (2025).

Up to November 13, 2025, has downloaded from Web of Science (Clarivate) he has got 618 documents (733 Scopus), 17,625 times cited (21,117 Scopus, 29,578 Google Scholar), an h-index of 64 (69 Scopus database and 83 Google Scholar).

Up to November 13, 2025, he has a total impact factor of 2634 (IF 2024).

Up to December 15, 2025, he is inventor of 27 granted, national and PCTs patents.

Up to December 15, 2025, he is inventor of 18 pending PCTs patents.

Messina, 07/01/2026

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