

## **Conference Participations**

- 1) 17th Symposium on Separation Sciences, Cluj-Napoca, Romania, September 5-9, 2011.  
Use of High Pressure Liquid Chromatography Capabilities for Applications in Food Area  
F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Invited oral communication
- 2) EUROanalysis 2011, 16th European Conference on Analytical Chemistry, "Challenges in Modern Analytical Chemistry", Congress Center SAVA, Belgrade, Serbia, September 11-15, 2011.  
Ultra Fast Separation and High Resolution Capabilities (LCxLC-IT-TOF) for Natural Products Applications.  
P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Oral communication
- 3) RDPA 2011, Recent Developments in Pharmaceutical Analysis, 14th International Meeting, September 21-24, 2011, Pavia, Italy.  
Multidimensional liquid chromatography in combination to mass spectrometry for the analysis of natural products  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Oral communication
- 4) RDPA 2011, Recent Developments in Pharmaceutical Analysis, 14th International Meeting, Pavia, Italy, September 21-24, 2011.  
Online comprehensive 2D LC/MS for proteomic analysis.  
E. Sommella, F. Cacciola, P. Donato, P. Campiglia, E. Novellino, L. Mondello, P. Dugo  
Poster communication
- 5) XXV Congresso Nazionale di Scienze Merceologiche, Trieste-Udine, September 26-28, 2011.  
Characterization of the triacylglycerol fraction of Salame S. Angelo PGI by means of HPLC-APCI/MS.  
B. Chiofalo, P. Dugo, A. Prandini, F. Cacciola, N. Fawzy, P. Donato, C. Panetta, F. Lo Coco, S. Simonella, L. Mondello  
Poster communication
- 6) ExTech 2011 – 13th International Symposium on Advances in Extraction Technologies, Putra World Trade Centre, Kuala Lumpur, Malaysia, September 27-29, 2011.  
Solid Phase Microextraction-Comprehensive Gas Chromatography with very fast Quadrupole Mass Spectrometry for the Analysis of water pesticides.  
G. Purcaro, F. Franchina, P.Q. Tranchida, P. Dugo, R. Costa, L. Mondello  
Poster communication
- 7) 37th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2011 Dalian), Dalian, China, October 8-11, 2011.  
Multidimensional Liquid Chromatography: Instrumental Aspects, Method Development and Future Trend.  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Tutorial lecture

- 8) 37th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2011 Dalian), Dalian, China, October 8-11, 2011.  
On-line capillary scale comprehensive 2D-LC system for the analysis of proteome samples.  
P. Donato, E. Sommella, F. Cacciola, L. Mondello, P. Dugo  
Poster communication
- 9) The 14th Beijing Conference and Exhibition on Instrumental Analysis (BCEIA2011), Beijing, China October 13-16, 2011.  
Employment of Comprehensive Two-Dimensional Liquid Chromatography in Combination with Mass Spectrometry for the Analysis of Complex Samples.  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Oral communication
- 10) 5th International Symposium on Recent Advances in Food Analysis, Prague, Czech republic November 1-4, 2011.  
Exploiting high pressure conditions in comprehensive two-dimensional liquid chromatography as a novel approach in food analysis.  
F. Cacciola, P. Donato, G. Torre, D. Giuffrida, P. Dugo, L. Mondello  
Oral communication
- 11) Incontri di Scienza delle Separazioni – Stato dell'arte e prospettive future delle tecniche separative in campo biologico, fitochimico e farmaceutico, Roma, Italy, Novembre 22-23, 2011.  
Sviluppo di un sistema multidimensionale nella modalità comprehensive LCxLC per l'analisi di campioni proteoma.  
E. Sommella, F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Oral communication
- 12) 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, Canada, May 20 – 24, 2012.  
Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure comprehensive two-dimensional liquid chromatography.  
M. Mreyen; F. Cacciola; P. Donato; D. Giuffrida; G. Torre; P. Dugo; L. Mondello.  
Poster communication
- 13) 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, Canada, May 20 – 24, 2012.  
Analysis of Triacylglycerols in *Brevoortia tyrannus* (Menhaden) Oil by Non-aqueous reversed Phase Liquid Chromatography in Combination with Mass Spectrometry.  
C. T. Santasania; M. Beccaria; F. Cacciola; P. Donato; P. Dugo; L. Mondello  
Poster communication
- 14) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
Continuous and Stop-Flow Approaches in Comprehensive Two Dimensional Liquid Chromatography  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Oral communication
- 15) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
Liquid chromatography in combination with mass spectrometry for lipid analysis.  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Oral communication
- 16) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
Enhanced Collection Of Volatile Components By Using A Triple Deans Switch

Tridimensional Preparative Capillary Gas Chromatographic System  
D. Sciarrone, S. Pantò, P. Dugo, G. Dugo, L. Mondello  
Oral communication

- 17) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
Highly Efficient Collection Of Oxygenated Sesquiterpenes By Means Of A Triple Deans Switch Tridimensional Preparative Capillary Gas Chromatographic System.  
S. Pantò, D. Sciarrone, P. Dugo, G. Dugo, L. Mondello  
Poster communication
- 18) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
On-Line Capillary Scale Comprehensive Two Dimensional Liquid Chromatography System For The Analysis Of Proteome Samples.  
E. Sommella, F. Cacciola, P. Donato, P. Dugo, P. Campiglia, L. Mondello  
Poster communication
- 19) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy, May 27 – June 1, 2012.  
Implementing On-Line Comprehensive NP-LCxRP-UHPLC Technology For Improved Identification Of A Complex Foodstuff By Mass Spectrometry  
P. Donato, F. Cacciola, G. Torre, P. Dugo, L. Mondello  
Poster communication
- 20) 36th ISCC and 9th GCxGC Symposium, Riva del Garda, Italy May 27 – June 1, 2012.  
Determination Of Petitgrain Oils Landmark Parameters By Using Gas Chromatography-Combustion-Isotope Ratio Mass Spectrometry And Enantioselective Multidimensional Gas Chromatography.  
L. Schipilliti, I. Bonaccorsi, D. Sciarrone, L. Dugo, P. Dugo, L. Mondello, G. Dugo  
Poster communication
- 21) ChimAISi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.  
Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure comprehensive two-dimensional liquid chromatography.  
M. Mreyen, F. Cacciola, P. Donato, D. Giuffrida, G. Torre, P. Dugo, L. Mondello  
Poster communication
- 22) ChimAISi\_2012 – IX Italian Congress of Food Chemistry – “Food, functional foods and nutraceuticals”, Ischia (NA, Italy), June 3-7, 2012.  
Analysis of triacylglycerols in Brevoortia tyrannus (menhaden) oil by non-aqueous reversed phase liquid chromatography in combination with mass spectrometry.  
M. Beccaria, E. Sommella, N. Fawzy, F. Cacciola, P. Donato, P.Q. Tranchida, G. Dugo, P. Dugo, L. Mondello  
Poster communication
- 23) Massa 2012 – Division of Mass Spectrometry – SCI, 40th anniversary, Palermo, July 1-5, 2012.  
Mass spectrometric elucidation of carotenoids in complex foodstuff using ultra high pressure comprehensive two-dimensional liquid chromatography.  
P. Donato, F. Cacciola, G. Torre, P. Dugo, L. Mondello  
Oral communication
- 24) HPLC 2012 – 38th International Symposium on High Performance Liquid Phase Separations and Related Techniques, Anaheim, CA (USA), June 16-21, 2012.  
New trends in comprehensive two-dimensional liquid chromatography in combination with mass spectrometry for the analysis of real-world samples.

- L. Mondello, P. Donato, F. Cacciola, P. Dugo  
Oral communication
- 25) 43rd International Symposium on Essential Oils, ISEO 2011, Lisbona, Portugal, September 5-8, 2012.  
Exploiting the alternative selectivity of a novel medium-polar ionic liquid stationary phase in the gas chromatographic analysis of essential oils.  
C. Ragonese, D. Sciarrone, E. Grasso, P. Dugo, L. Mondello  
Poster communication
- 26) 29th International Symposium on Chromatography, ISC 2012, Torun, Poland, September 9-13, 2012.  
Advanced liquid chromatography techniques for analysis of food lipids  
F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Invited oral communication
- 27) 29th International Symposium on Chromatography, ISC 2012, Torun, Poland, September 9-13, 2012.  
Comprehensive liquid chromatography – mass spectrometry technologies in food analysis  
F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Short course lecture
- 28) 29th International Symposium on Chromatography, ISC 2012, Torun, Poland, September 9-13, 2012.  
Mass spectrometric elucidation of carotenoids in chili red peppers using ultra high pressure comprehensive two-dimensional liquid chromatography  
M. Mreyen, F. Cacciola, P. Donato, D. Giuffrida, G. Torre, P. Dugo, L. Mondello  
Poster communication
- 29) 14th International Symposium on Advances in Extraction Technologies, ExTech 2012, Messina Italy, September 24-26, 2012.  
Determination of phospholipids in milk samples by means of hydrophilic interaction liquid chromatography coupled to evaporative light scattering and mass spectrometry detection.  
P. Donato, F. Cacciola, F. Cichello, M. Russo, P. Dugo, L. Mondello  
Poster communication
- 30) 14th International Symposium On Advances In Extraction Technologies, Extech 2012, Messina Italy, September 24-26, 2012.  
Comprehensive Two-dimensional Liquid Chromatography Combined with Mass Spectrometric Detection for Phospholipid Analysis  
N. Fawzy, F. Cacciola, P. Donato, F. Cichello, P. Dugo, L. Mondello  
Poster communication
- 31) 14th International Symposium On Advances In Extraction Technologies, Extech 2012, Messina Italy, September 24-26, 2012.  
Preparative gas chromatography as a powerful extraction tool for the isolation of highly pure components from complex matrices.  
S. Pantò, D. Sciarrone, C. Ragonese, L. Tedone, P. Q. Tranchida, P. Dugo, L. Mondello  
Oral communication
- 32) 14th International Symposium On Advances In Extraction Technologies, Extech 2012, Messina Italy, September 24-26, 2012.

Isolation of an unknown compound from the essential oil of *Clausena lansium* (Rutaceae) by means of a tridimensional preparative capillary gas chromatographic system.

L. Tedone, S. Pantò, D. Sciarrone, A. Rotondo, P. Dugo, L. Mondello.

Poster communication

- 33) 14th International Symposium On Advances In Extraction Technologies, Extech 2012, Messina Italy, September 24-26, 2012.  
Simultaneous Determination Of Oxygenated Compounds And BTEX In Gasoline By Means Of Multidimensional GC Coupled To MS  
D. Sciarrone, C. Ragonese, P. Q. Tranchida, L. Mondello  
Poster communication
- 34) 14th International Symposium On Advances In Extraction Technologies, Extech 2012, Messina Italy, September 24-26, 2012.  
Simultaneous Sample Preparation And Characterization Of Biodiesel Blend Fames Exploiting An Ionic Liquid Gas Chromatographic Stationary Phase.  
C. Ragonese, P. Q. Tranchida, D. Sciarrone, L. Mondello  
Poster communication
- 35) 31st IMMS, Informal Meeting on Mass Spectrometry, Palermo, Italy, May 5-8, 2013.  
Advanced analytical Techniques for characterization of bio-active molecules in complex real-world samples.  
F. Cacciola, L. Mondello  
Oral communication
- 36) 37th International Symposium on Capillary Chromatography, and 10th GCxGC Symposium, Palm Springs, USA, May 12-16, 2013.  
High Peak Capacity Separations of Biologically-Important Molecules by Using 2DLCxUHPLC  
P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Invited oral communication
- 37) 37th International Symposium on Capillary Chromatography, and 10th GCxGC Symposium, Palm Springs, USA, May 12-16, 2013.  
Continuous vs. Stop-Flow Online Approaches for Comprehensive Two-dimensional Liquid Chromatography of Lipids.  
P. Donato, N. Fawzy, F. Cacciola, M. Beccarla, L. Mondello  
Poster oral communication
- 38) 3rd European Lipidomics Meeting, Pardubice, Czech Republic, July 2-4, 2013.  
Development of a comprehensive two-dimensional liquid chromatography system combined with mass spectrometry detection for phospholipid analysis.  
F. Cacciola, P. Donato, N. Fawzy, P. Dugo, L. Mondello  
Oral communication
- 39) 3rd European Lipidomics Meeting, Pardubice, Czech Republic, July 2-4, 2013.  
Detailed analysis of the saponifiable and unsaponifiable fractions of animal and vegetable lipids by using comprehensive 2D GC.  
P. Q. Tranchida, S. Salivo, I. Bonaccorsi, A. Cotroneo, F. Cacciola, P. Dugo, L. Mondello  
Poster communication
- 40) 19th International Symposium on Separation Sciences, Poreč, Croatia, September 25-28, 2013.  
Advanced liquid chromatography techniques for the screening of lipid molecules in

food.

F. Cacciola, P. Donato, M. Beccaria, P. Dugo, A. Cotroneo, L. Mondello  
Oral communication

- 41) 19th International Symposium on Separation Sciences, Poreč, Croatia, September 25-28 2013.  
Determination of bio-active polyphenol components of pepper fruit *Capsicum annum* 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
- 42) Workshop Shimadzu "Soluzioni innovative dedicate al settore analitico", Torino, Italy, October 4, 2013.  
LCxLC-IT-TOF: applicazioni in campo alimentare.  
F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Oral communication
- 43) ITP 2013, 20th International Symposium on Electro- and Liquid Phase- Separation Techniques, Tenerife, Canary Islands (Spain), October 6-9, 2013.  
Liquid Chromatography and Mass Spectrometry: a powerful tool for lipid analysis.  
L. Mondello, P. Donato, M. Beccaria, F. Cacciola, P. Dugo  
Invited oral communication
- 44) ITP 2013, 20th International Symposium on Electro- and Liquid Phase- Separation Techniques, Tenerife, Canary Islands (Spain), October 6-9, 2013.  
Emerging analytical strategies for the characterization of food bioactives.  
P. Dugo, F. Cacciola, P. Donato, J. Soukup, P. Jandera, L. Mondello  
Invited oral communication
- 45) 3rd MS Food Day, Trento, Italy, October 9-11, 2013.  
Elucidation of the triacylglycerol fraction of menhaden fish oil by using ultra high-pressure NARP-LC/IT-TOF.  
P. Donato, I. Bonaccorsi, M. Beccaria, F. Cacciola, G. Sullini, A. Cotroneo, P. Dugo, L. Mondello  
Oral communication
- 46) Workshop: Giornata di Studio di Scienza delle Separazioni, Università degli Studi "G. d'Annunzio" Dipartimento di Farmacia, Chieti-Pescara, October 11, 2013.  
Sviluppo di tecniche cromatografiche bidimensionali (2D LC/PDA/MS) per l'analisi di matrici complesse: hardware, software ed applicazioni scelte  
P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Oral communication
- 47) 36° Congresso Nazionale della Società Italiana di Farmacologia, Torino, October 23-26, 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
- 48) 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.

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

- 49) Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, November 28-29, 2013.  
Sviluppo di metodiche analitiche avanzate per analisi di triacilgliceroli in campioni complessi (oli di pesce)  
G. Sullini, M. Beccaria, P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Oral communication
- 50) Incontri di Scienza delle Separazioni, Il contributo della scienza delle separazioni alle problematiche alimentari ed ambientali, Messina, November 28-29, 2013.  
Sviluppo di un metodo multidimensionale "LCxLC" per l'analisi di metabolite in sugarcane (*Saccharum officinarum* L.)  
G. Mazzi Leme, F. Cacciola, P. Donato, A. J. Cavalheiro, P. Dugo, L. Mondello  
Poster communication
- 51) Pittcon Conference & Expo 2014, Chicago, IL, USA, March 2-6, 2014  
Multidimensional Liquid Chromatography Approaches in food analysis.  
P. Dugo, F. Cacciola, P. Donato, L. Mondello  
Invited Oral communication
- 52) NVMS, 50th Anniversary Congress on Mass Spectrometry, Abdij van Rolduc, The Netherlands, April 13-15, 2014  
Comprehensive LCxLC-MS-MS: Application to Challenging Food Case-Study  
P. Donato, F. Rigano, F. Cacciola, P. Dugo, L. Mondello  
Invited Oral communication
- 53) MSB 2014, 30th International Symposium on MicroScale Bioseparations, Pécs, Hungary, April 27 - May 1, 2014  
Characterization of organic sulfur compounds in fossil fuels using flow modulated comprehensive two-dimensional gas chromatography and tandem mass spectrometry detector  
F. A. Franchina, M. E. Machado, C. Zini, E. B. Caramao, P. Q. Tranchida, F. Cacciola, L. Mondello  
Poster communication
- 54) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Comprehensive Two-Dimensional Liquid Chromatography Coupled To Mass Spectrometry For Food Applications  
P. Dugo, F. Cacciola, P. Donato, L. Mondello  
Invited Oral communication
- 55) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Assessing New Liquid Chromatography/Mass Spectrometry Methods for Lipid Evaluation in Health and Disease  
P. Donato, F. Cacciola, N. Fawzy, M. Beccaria, P. Dugo, L. Mondello  
Poster communication
- 56) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014

Development of a NanoLC-EIMS Method for the Analysis of Semi/Non Volatile Chemicals

F. Rigano, M. Russo, D. Sciarrone, P. Donato, P. Dugo, L. Mondello

Poster communication

- 57) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Reliability of the  $\Delta$ ECN42 Limit and Global Method for Extra Virgin Olive Oil Purity Assessment using Different Analytical Approaches  
M. Beccaria, G. Purcaro, A. Aloisi, A. Marra, P. Donato, L. Conte, P. Dugo, L. Mondello  
Poster communication
- 58) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Identification and Quantification of Bioactive Molecules in Industrial Processing By-products by Means of HPLC/PDA/MS  
V. Inferrera, M. Russo, G. Tripodo, P. Donato, P. Dugo, L. Mondello  
Poster communication
- 59) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
On-line Two-dimensional Liquid Chromatography-triple Quadrupole Mass Spectrometry for Enhanced Resolution and Sensitivity: Application to a Challenging Food-case Study I  
P. Donato, F. Cacciola, F. Rigano, D. Giuffrida, P. Dugo, L. Mondello  
Poster communication
- 60) HPLC 2014, 30th International Symposium on High Performance Liquid Phase Separations and Related Techniques, New Orleans, Louisiana, USA, May 11-15, 2014  
Multidimensional LC Preparative System Coupled with a Mass Spectrometer for Isolation of Bioactive Molecules  
M. Russo, V. Inferrera, F. Rigano, P. Donato, P. Dugo, L. Mondello,  
Poster communication
- 61) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Comprehensive 2D-LC: a rapid evolution of a powerful technique  
P. Dugo, P. Donato, F. Cacciola, L. Mondello  
Invited Oral communication
- 62) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014  
Coupling of new silver thiolate and monodisperse materials in Comprehensive Two-Dimensional Liquid Chromatography for truly orthogonal lipid separation  
G. Sullini, P. Donato, M. Beccaria, F. Cacciola, P. Dugo, L. Mondello  
Oral communication
- 63) 38th International Symposium on Capillary Chromatography, and 11th 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



Shimadzu Vendor Seminar

- 64) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Continuous vs. segmented second dimension system gradients for Comprehensive Two-Dimensional Liquid Chromatography of sugarcane (*Saccharum Spp.*)  
F. Cacciola, G. Mazzi Leme, P. Donato, A. J. Cavalheiro, P. Dugo, L. Mondello  
Poster communication
- 65) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Increase the separation power of Two-Dimensional Liquid Chromatography through the use of shifted gradients for polyphenol determination in red wine  
F. Cacciola, P. Donato, F. Rigano, P. Dugo, L. Mondello  
Poster communication
- 66) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
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  
P. Donato, F. Cacciola, F. Rigano, D. Giuffrida, P. Dugo, L. Mondello  
Poster communication
- 67) 38th International Symposium on Capillary Chromatography, and 11th GC×GC Symposium, Riva del Garda, Italy, May 18-23, 2014.  
Determination of polyphenols in *Capsicum annum* L. by liquid chromatography coupled to mass spectrometry detection and evaluation of the biological activity  
M. Mokhtar, J. Soukup, P. Donato, F. Cacciola, P. Dugo, A. Riazzi, P. Jandera, L. Mondello  
Poster communication
- 68) ExTech 2014, 16th International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
Sample Preparation Techniques coupled to Advanced Chromatographic Methods for Marine Organisms Investigation  
R. Costa, M. Beccaria, E. Grasso, L. Mondello  
Poster communication
- 69) ExTech 2014, 16th International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
Comprehensive Gas Chromatography coupled to MS/MS. An additional dimension for complex analysis and easier sample preparation  
L. Mondello and M. Beccaria  
Shimadzu Vendor Seminar
- 70) ExTech 2014, 16th International Symposium on Advances in Extraction Technologies, Crete, Greece, May 25-28, 2014.  
Application of Different Extraction Techniques for the Determination of Triacylglycerols by  
Multidimensional Liquid Chromatography in Fish from The Mediterranean Sea  
M. Beccaria, R. Costa, E. Grasso, M. Oteri, G. Tripodo, P. Dugo, L. Mondello  
Poster communication
- 71) ExTech 2014, 16th International Symposium on Advances in Extraction Technologies, Crete, Greece May 25-28, 2014.

- Comparison of Different Extraction Procedures for the GC×GC Investigation of Fats in Fish and Shellfish  
M. Beccaria, R. Costa, E. Grasso, A. Albergamo, L. Mondello  
Poster communication
- 72) 8° MS-Pharmaday, Aboca-Sansepolcro, Italy, July 11-13 2014.  
Comprehensive liquid chromatography coupled to tandem mass spectrometry for the characterization of polyphenols in mate extracts  
F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Oral communication
- 73) LC-MS 2014 Corso avanzato sull'accoppiamento della spettrometria di massa con tecniche di separazione in fase liquida, Lucca, Italy, 23-26 Giugno 2014.  
Accoppiamento della spettrometria di massa con tecniche di cromatografia liquida multidimensionale  
P. Donato, L. Mondello  
Oral communication
- 74) 10th European Pesticide Residue Workshop, Dublin, Ireland, June 30th - July 3rd, 2014  
Fast and efficient untargeted and targeted analysis of pesticide in food by using a novel high-speed GC and GCxGC-MSMS system  
D. Sciarrone, P. Tranchida, L. Mondello  
Shimadzu Vendor Seminar
- 75) 10th European Pesticide Residue Workshop, Dublin, Ireland, June 30th - July 3rd, 2014  
Fast and Efficient Untargeted and Targeted Analysis of Pesticides in Food by Using a Novel High-Speed GC and GCxGC-MSMS System  
D. Sciarrone, P. Tranchida, L. Mondello  
Poster communication
- 76) 17th International Carotenoid Symposium, being held in Park City, Utah, USA, June 29- July 4 2014  
C50 Carotenoids from the cheese-ripening bacteria *arthrobacter arilaitensis*.  
D. Giuffrida, N. Sutthiwong, P. Dugo, P. Donato, F. Cacciola, M. Fouillaud, Y. Caro, L. Dufossé  
Poster communication
- 77) 17th International Carotenoid Symposium, being held in Park City, Utah, USA, June 29- July 4 2014  
Native carotenoids composition of some fruits from Panama.  
D. Giuffrida, D. Menchaca, P. Dugo, P. Donato, F. Cacciola, E. Murillo  
Poster communication
- 78) 17th International Carotenoid Symposium, being held in Park City, Utah, USA, June 29- July 4 2014  
Bioaccessibility of phytoene and phytofluene from oranges. Effect of squeezing and dietary fat.  
G. Tripodo, G. Pumilia, C. M. Stinco, I. M. Vicario, D. Giuffrida, P. Dugo, G. Dugo, A. J. Meléndez-Martínez  
Poster communication
- 79) 17th International Carotenoid Symposium, being held in Park City, Utah, USA, June 29- July 4 2014  
Study of the carotenoids esters in diverse citrus cultivars.

- G. Tripodo, D. Giuffrida, C. M. Stinco, P. Dugo, G. Dugo, I. M. Vicario, A. J. Meléndez-Martínez  
Poster communication
- 80) X Congresso Italiano di Chimica degli Alimenti, Firenze, Italy, July 6-10 2014  
Native carotenoids composition of some fruits from Panama  
D. Giuffrida, D. Menchaca, P. Dugo, P. Donato, F. Cacciola, E. Murillo  
Poster communication
- 81) X Congresso Italiano di Chimica degli Alimenti, Firenze, Italy, July 6-10 2014  
C50 Carotenoids from the cheese-ripening bacteria *arthrobacter arilaitensis*  
D. Giuffrida, N. Sutthiwong, P. Dugo, P. Donato, F. Cacciola, M. Fouillaud, Y. Caro, L. Dufossé  
Poster communication
- 82) 45th International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Advanced preparative techniques for the collection of pure components from essential oils  
D. Sciarrone, S. Pantò, F. Cacciola, L. Mondello  
Invited oral communication
- 83) 45th International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Comprehensive Chromatography (GC×GC, LC×LC, LC-GC×GC/MS) approaches for the analysis of Essential Oils  
L. Mondello  
Shimadzu Vendor Seminar
- 84) 45th International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Cold-pressed lemon essential oil by-products: enhancement through bioactive molecules isolation.  
A. Arigò, M. Russo, M. L. Calabrò, P. Dugo, L. Mondello  
Poster communication
- 85) 45th International Symposium of Essential Oils (ISEO 2014), Istanbul, Turkey, September 07-10, 2014  
Creation of a vapour phase fourier-transform infrared spectroscopy database as a tool for the identification of components in complex mixtures  
S. Pantò, D. Sciarrone, M. Maimone, P. Q. Tranchida, P. Dugo, L. Mondello  
Poster communication
- 86) Simpósio Brasileiro de Cromatografia e Técnicas Afins (SIMCRO 2014), Campos do Jordão (SP), Brazil, September 4-6, 2014  
Liquid chromatography methods for the characterization of aqueous phase from bio-oils  
D. Tomasini, F. Cacciola, F. Rigano, D. Sciarrone, P. Donato, M. Beccaria, E. Caramão, P. Dugo, L. Mondello  
Poster communication
- 87) 23° SILAE Congress Marsala, Italy, September 7-12, 2014  
Genotype characterization of *helichrysum italicum* (ROTH) G. Don Fil. Subsp. *italicum* by gas chromatography – isotope ratio mass spectrometry.  
L. Schipilliti, I. Bonaccorsi, G. Dugo, P. Dugo, L. Mondello  
Oral communication

- 88) 23° SILAE Congress Marsala, Italy, September 7-12, 2014  
Comprehensive gas chromatographic (GC×GC) analysis of artemisia arborescens L. (ASTERACEAE) from south Italy  
R. Costa; S. Ragusa, I. Bonaccorsi, A. Zanotto, F. A. Franchina, E. Grasso, L. Mondello,  
Comunicação poster
- 89) 23° SILAE Congress Marsala, Italy, September 7-12, 2014  
Artemisia arborescens L. (ASTERACEAE): HPLC determination of flavonoids and evolution of anti-angiogenic effects  
M. P. Germanò, M. Russo, G. Certo, E. Grasso, R. Costa, I. Bonaccorsi, S. Ragusa, P. Dugo  
Poster communication
- 90) 30th 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  
L. Mondello  
Invited oral communication
- 91) 30th International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014  
Combining orthogonal multidimensional liquid chromatography approaches in food analysis  
F. Cacciola, P. Donato, F. Rigano, A. Albergamo, P. Dugo, L. Mondello  
Oral communication
- 92) 30th International Symposium on Chromatography (ISC 2014), Salzburg Austria, September 14-18, 2014  
A powerful four-dimensional separation-science tool: on-line liquid chromatography-comprehensive two dimensional gas chromatography-triple quad mass spectrometry  
M. Zoccali, F. A. Franchina, M. E. Machado, C. Zini, E. B. Caramão, P. Q. Tranchida, L. Mondello  
Oral communication
- 93) 12th Euro Fed Lipid Congress, Montpellier, France, September 14-17, 2014.  
Reliability of the  $\Delta$ ECN42 Limit and global method for extra virgin olive oil purity assessment using different analytical approaches  
M. Beccaria, G. Purcaro, P. Tranchida, P. Dugo, L. Mondello  
Poster communication
- 94) XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014  
Liquid chromatography coupled to a three-dimensional gas chromatography preparative system for the rapid collection of high amounts of pure solutes from natural samples  
D. Sciarrone, L. Mondello  
Oral communication
- 95) XV Congreso Latinoamericano de Cromatografía e Técnicas Afins (COLACRO 2014), Cartagena de Indias, Colombia, September 29-October 3, 2014  
Complementary analytical liquid chromatography methods for the characterization of aqueous phase from pyrolysis of lignocellulosic biomasses

D.Tomasini, F.Cacciola, F.Rigano, D.Sciarrone, P.Donato, M.Beccaria, E.Caramão,  
P.Dugo, L.Mondello  
Poster communication

- 96) Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014  
GC multidimensionale “comprehensive” con modulazione a flusso: è questo il futuro delle separazioni GC ad alta risoluzione?  
P. Q. Tranchida, F. A. Franchina, P. Dugo, L. Mondello  
Invited oral communication
- 97) Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014  
Isolamento di molecole biologicamente attive per mezzo di cromatografia liquida preparativa multidimensionale  
M. Russo, P. Dugo, L. Mondello  
Oral communication
- 98) Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014  
Uso di tecniche cromatografiche multidimensionali preparative per l'isolamento di composti puri da campioni complessi  
M. Maimone, S. Pantò, D. Sciarrone, P. Dugo, L. Mondello  
Oral communication
- 99) Incontri di Scienza delle Separazioni, Roma, 12 dicembre, 2014  
Valorizzazione degli scarti dell'industria agroalimentare mediante l'isolamento di molecole bioattive  
Arigò, M. Russo, M. L. Calabrò, P. Dugo, L. Mondello  
Oral communication
- 100) The 18th Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2015), Tel Aviv, Israel, January 14-15, 2015  
Comprehensive Two-Dimensional Gas Chromatography Combined with Single and Triple Quadrupole Mass Spectrometry: Powerful Unified Tools for the Analysis of Food Volatiles  
P. Q. Tranchida, F. A. Franchina, P. Dugo, L. Mondello  
Oral communication
- 101) Emerging Separation Technologies (ChromSoc), London, March 26, 2015  
Comprehensive 2D GC combined with novel MS instrumentation: powerful unified tools for the analysis of complex samples  
Luigi Mondello, Peter Q. Tranchida, Flavio A. Franchina, Mariosimone Zoccali  
Invited oral communication
- 102) Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Flow Modulated Comprehensive 2D Gas Chromatography: A versatile, low-costing and powerful instrument for a deeper insight into food contaminations and complex samples  
F.A. Franchina, M. Maimone, P.Q. Tranchida, G. Purcaro, D. Sciarrone, L. Mondello  
Poster communication
- 103) 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

- 104) Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Development of a vapour phase Fourier-transform infrared spectroscopy database for the unequivocal identification of volatiles in complex mixtures  
S. Pantò, M. Maimone, D. Sciarrone, G. Purcaro, L. Mondello  
Poster communication
- 105) Analytica Vietnam 2015, Saigon Exhibition & Convention Centre, Ho Chi Minh City, April 15-17, 2015  
Cromatoplusspectra 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
- 106) 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
- 107) 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
- 108) 1st 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
- 109) 106th 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
- 110) 106th 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

- 111) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 112) 236) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 113) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 114) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 115) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 116) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 117) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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  
Mariarosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Poster communication

- 118) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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, Mariarosa Maimone, Danilo Sciarrone, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Poster communication
- 119) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 120) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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
- 121) The 39th International Symposium on Capillary Chromatography (ISCC) & The 12th 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, Mariarosa Maimone, Giorgia Purcaro, Luigi Mondello  
Poster communication
- 122) Analytical and Technical Application of Supercritical Fluids'15, Budapest, May 21, 2015  
Supercritical Chromatographic Separation of Pepper Carotenoids  
M. Utczás, I. Bonaccorsi, V. Inferred, P. Donato, P. Dugo, L. Mondello  
Oral communication
- 123) 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
- 124) 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, Luigi Mondello  
Invited oral communication



- 125) 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, Giorgia Purcaro  
Invited oral communication
- 126) HPLC 2015 – 42th 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
- 127) HPLC 2015 – 42th 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
- 128) HPLC 2015 – 42th 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
- 129) HPLC 2015 – 42th 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
- 130) HPLC 2015 – 42th 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
- 131) HPLC 2015 – 42th 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
- 132) 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

- 133) 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
- 134) 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
- 135) 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
- 136) 21st International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30th - July 3rd, 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
- 137) 21st International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30th - July 3rd, 2015  
Lipidomic analysis of biological samples by using one- and multidimensional chromatography coupled to mass spectrometry  
Veronica Inferredera, Marco Beccaria, Paola Donato, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Oral communication
- 138) 21st International Symposium on Separation Science (ISSS 2015), Ljubljana, Slovenia, June 30th - July 3rd, 2015  
Carbon isotope ratio analysis for the evaluation of vanilla flavour in foodstuffs  
Luisa Schipilliti, Sebastiano Pantò, Ivana Bonaccorsi, Giorgia Purcaro, Luigi Mondello  
Poster communication
- 139) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 2015  
Use of the comprehensive gas chromatography (GC×GC) approach in food analysis  
Giorgia Purcaro, Laura Barp, Flavio Franchina, Peter Q. Tranchida, Luigi Mondello  
Poster communication

- 140) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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
- 141) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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
- 142) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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, Luigi Mondello  
Poster communication
- 143) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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
- 144) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 2015  
A fast and green chromatographic technique for carotenoid identification in foodstuffs  
Bonaccorsi, V. Inferrera, M. Utczas, F. Cacciola, P. Donato, P. Dugo, L. Mondello  
Poster communication
- 145) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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, Luigi Mondello  
Poster communication
- 146) EUROANALYSIS 2015, Bordeaux, France, September 6th-10th, 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
- 147) 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
- 148) 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, P. Dugo, L. Mondello  
Oral communication

- 149) 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
- 150) 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
- 151) 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
- 152) 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
- 153) 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
- 154) XVIII Euro Food Chem, Madrid, Spain, October 13-16, 2015  
Recent advances in chromatographic techniques hyphenated to mass spectrometry for food quality assessment  
Luigi Mondello  
Invited oral communication

- 155) 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
- 156) 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
- 157) 8th Brazilian Symposium on Essential Oils (SBOE) - International Symposium on  
Essential Oils (ISEO), Rio de Janeiro, Brazil, November 10-13, 2015  
Preparative chromatography techniques for the isolation of pure standard  
components from natural samples  
Luigi Mondello, Sebastiano Pantò, Danilo Sciarrone  
Invited oral communication
- 158) Convegno CNR Dagli ioni metastabili (1945) alle tecniche MSn: stato dell'arte,  
novità, innovazione e strumentazione, Roma, 15 dicembre 2015  
Hyphenation of novel MS devices with a powerful multidimensional GC pre-  
separation step for the investigation of complex samples  
Mariarosa Maimone, Flavio A. Franchina, Peter Q. Tranchida and Luigi Mondello  
Oral communication
- 159) International Symposium On Hyphenated Techniques In Chromatography And  
Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Hyphenated LC-MS and LC×LC-MS Techniques Reduce the Need for Extensive  
Sample Preparation for Accurate Analysis of Target Compounds  
Paola Dugo, Paola Donato, Francesco Cacciola, Marco Beccaria, Veronica  
Inferriera, Francesca Rigano, Luigi Mondello  
Invited oral communication
- 160) International Symposium On Hyphenated Techniques In Chromatography And  
Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Hyphenated Chromatographic Techniques for Complex Analysis of Lipid Samples  
Paola Dugo, Paola Donato, Marco Beccaria, Francesco Cacciola, Luigi Mondello  
Invited oral communication
- 161) International Symposium On Hyphenated Techniques In Chromatography And  
Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Advanced Chromatographic and Mass Spectrometric Approaches for Phospholipid  
Analysis  
Paola Dugo  
Invited oral communication
- 162) International Symposium On Hyphenated Techniques In Chromatography And  
Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Flow-modulation comprehensive two-dimensional gas chromatography-mass  
spectrometry using  $\approx 4 \text{ mL min}^{-1}$  gas flows  
Peter Q. Tranchida, Flavio A. Franchina, Mariarosa Maimone, Luigi Mondello  
Oral communication

- 163) International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Isolation of unknown molecules from plant extracts exploiting a multidimensional GC-prep system followed by NMR, MS and FTIR for structural identification  
Danilo Sciarrone, Sebastiano Panto, Paola Dugo, Luigi Mondello  
Oral communication
- 164) International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
(Low-)flow modulation comprehensive two-dimensional gas chromatography for the determination of suspected allergens in fragrances  
Mariarosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Peter Q. Tranchida and Luigi Mondello  
Poster communication
- 165) International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Concept of (low-)flow modulation comprehensive two-dimensional gas chromatography under sub-ambient, ambient and supra-ambient pressure outlet conditions  
Mariarosa Maimone, Flavio A. Franchina, Peter Q. Tranchida, Luigi Mondello  
Poster communication
- 166) International Symposium On Hyphenated Techniques In Chromatography And Separation Technology (HTC), Ghent, Belgium, January 27-29, 2016  
Efficient on-line liquid chromatography removal of olefin interferences prior to the gas chromatography determination of mineral oil contamination in vegetable oils  
Mariosimone Zoccali, Laura Barp, Marco Beccaria, Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello  
Poster communication
- 167) IDF Dairy Science & Technology Symposia 2016, Dublin, April 11-13th, 2016.  
Gas chromatography-olfactometry in food flavor analysis  
Danilo Sciarrone and Luigi Mondello  
Invited Oral Communication
- 168) 1° Isotope ratio mass spectrometry (IRMS) Day, S.Michele all'Adige (TN), Italy, May, 9-11 2016  
High Efficiency Multidimensional Gas Chromatography Coupled to Isotope Ratio Mass Spectrometry and Quadrupole Mass Spectrometry Simultaneous Detection  
Danilo Sciarrone and Luigi Mondello  
Oral Communication
- 169) 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4, 2016  
Elucidation of minor components in vegetable oils by using comprehensive two-dimensional gas chromatography: A "green" evolution  
G. Purcaro, F.A. Franchina, L. Barp, P.Q. Tranchida, and L. Mondello  
Poster Communication
- 170) 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4, 2016  
Lipidomics-type analysis of human plasma by UHPLC-qMS  
M. Beccaria, V. Infrerra, F. Rigano, P. Dugo, G. Purcaro, L. Mondello  
Poster Communication
- 171) EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus, May

- 24 -27, 2016  
Comprehensive liquid chromatography-triple quadrupole mass spectrometry for simultaneous determination of bioactives and pesticides in wine samples  
Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Invited Oral Communication
- 172) EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus, May 24 -27, 2016  
Miniaturized QuEChERS methodologies coupled to fast gas chromatography-triple quadrupole mass spectrometry for the determination of pesticides in different vegetables  
Mariosimone Zoccali, Giorgia Purcaro, Antonino Schepis, Peter Q. Tranchida, Francesco Cacciola, Luigi Mondello  
Poster Communication
- 173) EPRW 2016, 11th European Pesticide Residue Workshop, Limassol, Cyprus, May 24 -27, 2016  
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  
Margita Utczás, Mariosimone Zoccali, Giorgia Purcaro, Francesco Cacciola, Luigi Mondello  
Poster Communication
- 174) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Comprehensive 2D gas chromatography. A 17-year “balance”  
Luigi Mondello  
Invited Oral Communication
- 175) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Hyphenations of (low-)flow modulation comprehensive 2D GC with single quadrupole, triple quadrupole and high-resolution time-of-flight mass spectrometry  
Peter Q. Tranchida, Flavio A. Franchina, Giorgia Purcaro, Mariarosa Maimone, Simona Salivo, Luigi Mondello  
Invited Oral Communication
- 176) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Recent applications of LC×LC to natural products analysis  
Paola Dugo Francesco Cacciola, Paola Donato, Luigi Mondello  
Invited Oral Communication
- 177) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
In Pursuit of the Microbiosphere  
Francesco Cacciola, Domenica Mangraviti, Francesca Rigano, Paola Donato, Paola Dugo, Luigi Mondello, Yukari Nishizawa-Brennen, Karen M. Draths, John W. Frost, Hernan J. Cortes  
Invited Oral Communication
- 178) 40th International Symposium on Capillary Chromatography, and 13th 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

- 179) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
High efficiency multidimensional gas chromatography coupled to isotope ratio mass spectrometry and quadrupole mass spectrometry simultaneous detection  
Danilo Sciarrone, Antonino Schepis, Luigi Mondello  
Oral Communication
- 180) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Quantification of pesticides in food samples by means of miniaturized QuEChERS approach coupled to fast GC-QqQ MS  
Antonino Schepis, Mariosimone Zoccali, Giorgia Purcaro, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 181) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Optimization of in-pipette solid-phase extraction for determination of minor components in vegetable oils by GC×GC-FID/MS  
Giorgia Purcaro, Flavio A. Franchina, Laura Barp, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 182) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Use of comprehensive two-dimensional gas chromatography and tandem mass spectrometry for the targeted and untargeted analysis of petrochemical samples  
Maria Elisabete Machado, Marco Piparo, Flavio A. Franchina, Claudia Zini, Elina B. Caramao, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 183) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
(Low-)flow modulation comprehensive two-dimensional gas chromatography experiments under different outlet pressure conditions  
Thiago R. Bjerk, Mariarosa Maimone, Flavio A. Franchina, Giorgia Purcaro, Danilo Sciarrone, Claudia Zini, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 184) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Phthalic acid esters determination in vegetable oils by using SPME followed by fast GC coupled with triple quadrupole MS  
Flavio A. Franchina, Laura Barp, Mariosimone Zoccali, Giorgia Purcaro, Danilo Sciarrone, Peter Q. Tranchida, Luigi Mondello  
Poster Communication
- 185) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Flow-modulated comprehensive 2D gas chromatography combined with vacuum ultraviolet detector for the analysis of complex mixture



Mariosimone Zoccali, Margita Utczas, Giorgia Purcaro, Peter Q. Tranchida, Kevin A.A. Schug, Luigi Mondello  
Poster Communication

- 186) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Impact of convergence chromatography coupled to time-of-flight mass spectrometry on lipid analysis: applications to triacylglycerol fingerprinting in edible oils  
Veronica Inferrera, Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Poster Communication
- 187) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Analysis of lipid profile in human lipid storage myopathies  
Marco Beccaria, Giorgia Purcaro, Marianna Oteri, Giuseppe Micalizzi, Paola Dugo, Luigi Mondello  
Poster Communication
- 188) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Evaluation of the lipid profile of dairy products during and after their shelf-life  
Marianna Oteri, Marco Beccaria, Giorgia Purcaro, Giuseppe Micalizzi, Ivana L. Bonaccorsi, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Poster Communication
- 189) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Azaphilones pigments from *Talaromyces Albobiverticillius*  
Miroslava Zelena, Laurent Dufosse, Daniele Giuffrida, Francesco Cacciola, Mekala Venkat, Mireille Fouillaud, Emmanuelle Girard-Valenciennes, Lenka Ceslova, Paola Dugo, Luigi Mondello  
Poster Communication
- 190) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Exploitation of different techniques for a reliable identification of unknown compounds to be added into a dedicated database for the flavor and fragrance field  
Giuseppe Micalizzi, Margita Utczas, Giorgia Purcaro, Danilo Sciarrone, Luigi Mondello  
Poster Communication
- 191) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
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  
Margita Utczas, Giuseppe Micalizzi, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 192) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Comprehensive lipid profiling in mussel samples by comprehensive liquid chromatography-tandem mass spectrometry  
Paola Donato, Francesca Rigano, Ambrogina Albergamo, Francesco Cacciola, Marco Beccaria, Paola Dugo, Luigi Mondello  
Poster Communication

- 193) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Comprehensive two-dimensional liquid chromatography for characterization of food carotenoids  
Domenica Mangraviti, Francesco Cacciola, Daniele Giuffrida, Margita Utczas, Paola Donato, Paola Dugo, Luigi Mondello  
Poster Communication
- 194) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
On-line coupling of ultra performance convergence chromatography and ultra high pressure liquid chromatography for boosting orthogonality in comprehensive separations  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Francesco Cacciola, Paola Dugo, Luigi Mondello  
Poster Communication
- 195) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Use of an “Intelligent knife (IKNIFE), based on the rapid evaporative ionization mass spectrometry technology for authenticity assessment of pistachio samples  
Francesca Rigano, Sara Stead, Renata Jandova, Davy Petit, Sara Farnetti, Nino Marino, Luigi Mondello  
Poster Communication
- 196) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Characterization of free fatty acid profile in mussels by Nano-LC directly coupled to electron ionization mass spectrometry  
Francesca Rigano, Ambrogina Albergamo, Danilo Sciarrone, Marco Beccaria, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 197) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Building of a linear retention index system in liquid chromatography  
Francesca Rigano, Danilo Sciarrone, Luigi Mondello  
Poster Communication
- 198) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
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  
Marina Russo, Francesca Rigano, Adriana Arigò, Danilo Sciarrone, Maria L. Calabrò, Paola Dugo, Luigi Mondello  
Poster Communication
- 199) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Lipidomics-type analysis by UHPLC-Q-MS with ESI and APCI interfaces  
Marco Beccaria, Veronica Inferrera, Francesca Rigano, Giorgia Purcaro, Paola Dugo, Luigi Mondello  
Poster Communication

- 200) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
On-line coupling of CO<sub>2</sub> supercritical fluid extraction chromatography coupled to triple quadrupole mass spectrometry  
Mariosimone Zoccali, Giorgia Purcaro, Masayuki Nishimura, Luigi Mondello  
Poster Communication
- 201) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
VUV spectra database of fatty acids derivatized coupled with linear retention index approach: reliable identification tool for complex samples  
Mariosimone Zoccali, Margita Utczas, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 202) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Efficient removal of olefin interferences by on-line liquid-liquid chromatography prior to the gas chromatography determination of mineral oil contamination in vegetable oils  
Mariosimone Zoccali, Giorgia Purcaro, Laura Barp, Marco Beccaria, Danilo Sciarrone, Luigi Mondello  
Poster Communication
- 203) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Isolation of unknown molecules from plant extracts exploiting a multidimensional GC-PREP system followed by NMR, MS and FTIR for structural identification  
Danilo Sciarrone, Luigi Mondello  
Poster Communication
- 204) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Nano-scale liquid chromatography coupled to electron ionization mass spectrometry for improving identification capability of LC-amenable compounds  
Francesca Rigano, Marina Russo, Marianna Oteri, Paola Dugo, Luigi Mondello  
Poster Communication
- 205) 40th International Symposium on Capillary Chromatography, and 13th GC×GC Symposium, Riva del Garda, Italy, May 29-June 03, 2016  
Towards ultimate sensitivity for the analysis of persistent organic pollutants (POPs)  
Francesca Rigano, Jody Dunstan, Francisco Ferron, Davy Petit, Luigi Mondello  
Poster Communication
- 206) HPLC 2016 – 44th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Different Approaches Using Liquid Chromatography and Mass Spectrometry for Analysis of Complex Lipid Samples  
Paola Dugo, Marco Beccaria, Francesco Cacciola, Paola Donato, Luigi Mondello  
Invited Oral Communication
- 207) HPLC 2016 – 44th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
NanoLC Coupled to EI-MS for a Fast and Reliable Untargeted Characterization of LC-amenable Compounds  
Luigi Mondello, Francesca Rigano, Danilo Sciarrone, Marina Russo, Paola Dugo  
Poster Communication

- 208) HPLC 2016 – 44th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Reversed phase×reversed phase liquid chromatography: a powerful analytical technique in the analysis of complex foodstuffs  
Marina Russo, Francesco Cacciola, Paola Donato, Francesca Rigano, Paola Dugo, Luigi Mondello  
Poster Communication
- 209) HPLC 2016 – 44th International Symposium on High-Performance Liquid Phase Separations & Related Techniques, San Francisco, USA, June 19-24, 2016  
Pesticides determination by means of a green unified analytical tool  
Marina Russo, Mariosimone Zoccali, Giorgia Purcaro, Paola Dugo, Masayuki Nishimura, Luigi Mondello  
Poster Communication
- 210) VIII Pigments in Food, Cluj-Napoca, Romania 28 June-1 July 2016  
Application of advanced chromatography methods for the pigments characterization in fresh and overripe fruits and vegetables  
Daniele Giuffrida, Francesco Cacciola, Margita Utczas, Domenica Mangraviti, Ivana Bonaccorsi, Veronica Inferrera, Paola Donato, Paola Dugo, Luigi Mondello Invited  
Oral Communication
- 211) ExTech & ISSS 2016, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Nano-scale Liquid Chromatography Hyphenated to Electron Ionization Mass Spectrometry for Enhancing Identification Capability of Complex Samples  
Francesca Rigano, Luigi Mondello  
Invited Oral Communication
- 212) ExTech & ISSS 2016, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Improving Identification Reliability in Liquid Chromatography by Using a Linear Retention Index Database  
Francesca Rigano, Danilo Sciarrone, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 213) ExTech & ISSS 2016, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
On-line extraction and determination by means CO<sub>2</sub> supercritical fluid and triple quadrupole mass spectrometry  
Mariosimone Zoccali, Giorgia Purcaro, Margita Utczas, Masayuki Nishimura, Luigi Mondello  
Poster Communication
- 214) ExTech & ISSS 2016, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Linear retention indices: added value to a dedicated MS spectra database for the reliable identification of complex samples in the flavour and fragrance field  
M. Utczas, G. Micalizzi, G. Purcaro, L. Mondello  
Poster Communication

- 215) ExTech & ISSS 2016, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on Separation Sciences, Torun, Poland, July 3-6, 2016.  
Variation in the volatile and non-volatile fraction in processed and native Arbutus unedo  
M. Utczas, G. Purcaro, F. Cacciola, D. Giuffrida, L. Mondello  
Poster Communication
- 216) 31th International Symposium on Chromatography, Cork, Ireland, August 28th - Sept 1th, 2016  
Improvement in the determination of mineral oil contamination in vegetable oils: efficient removal of olefin interferences by LC-LC-GC  
M. Zoccali, G. Purcaro, L. Barp, M. Beccaria, D. Sciarrone, L. Mondello  
Oral Communication
- 217) 31th International Symposium on Chromatography, Cork, Ireland, August 28th - Sept 1th, 2016.  
MS Spectra Database Of Flavours And Fragrances Coupled With Linear Retention Index Approach: Reliable Identification Of Complex Essential Oil Samples  
M. Utczas, M. Zoccali, G. Micalizzi, G. Purcaro, L. Mondello  
Poster Communication
- 218) 31th International Symposium on Chromatography, Cork, Ireland, August 28th - Sept 1th, 2016.  
A unified analytical tool for green extraction and determination of both targeted and untargeted analysis  
M. Zoccali, G. Purcaro, M. Nishimura, L. Mondello  
Poster Communication
- 219) 31th International Symposium on Chromatography, Cork, Ireland, August 28th - Sept 1th, 2016  
Native carotenoids composition in two Brazilian fruits from the Cerrado area  
Daniele Giuffrida, Francesco Cacciola, Luigi Mondello, Miroslava Zelená, Paola Dugo, Rosana Goncalves, Lenka Česlová  
Poster Communication
- 220) 47th International Symposium on Essential Oils (ISEO2016), Nice, France, September 11-14th, 2016  
(Low-)flow modulation comprehensive 2D GC-MS: a limited-cost ultra high resolution approach for flavor & fragrance analysis  
Peter Q. Tranchida, Flavio A. Franchina, Luigi Mondello  
Invited Oral Communication
- 221) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
The use of comprehensive 2d liquid chromatography in food analysis  
P. Dugo, F. Cacciola, P. Donato, L. Mondello  
Invited Oral Communication
- 222) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
High efficiency multidimensional gas chromatography coupled to isotope ratio mass spectrometry and quadrupole mass spectrometry simultaneous detection  
D. Sciarrone, A. Schepis, L. Mondello  
Oral Communication

- 223) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Use of reversed phase×reversed phase liquid chromatography for analysis of complex food samples  
F. Cacciola, P. Donato, F. Rigano, M. Russo, P. Dugo, L. Mondello  
Poster Communication
- 224) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Dairy products: lipid evolution during shelf-life  
M. Oteri, M. Beccaria, G. Purcaro, G. Micalizzi, I. L. Bonaccorsi, F. Cacciola, P. Dugo, L. Mondello  
Poster Communication
- 225) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Application of comprehensive two-dimensional liquid chromatography for analysis of food carotenoids  
D. Mangraviti, F. Cacciola, D. Giuffrida , M. Utczas, P. Donato, P. Dugo, L. Mondello  
Poster Communication
- 226) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Miniaturized quechers approach coupled to fast gcqqq ms for the quantification of pesticides in different vegetables  
A.Schepis, M. Zoccali, G. Purcaro, P. Q. Tranchida, L. Mondello  
Poster Communication
- 227) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Building of an lc-ei-ms database, including linear retention index (lri) data, for achieving a fast and reliable identification in liquid chromatography  
F. Rigano, M. Russo, P. Dugo, L. Mondello  
Poster Communication
- 228) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
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  
A. Schepis, M. Zoccali, G. Purcaro, M. Beccaria, D. Sciarrone, L. Mondello  
Poster Communication
- 229) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Ultra performance convergence chromatography for food lipid characterization: towards faster and green analysis  
V. Inferrera, P. Donato, F. Cacciola, P. Dugo, L. Mondello  
Poster Communication
- 230) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
(Low-)Flow modulation comprehensive two-dimensional gas chromatography for the determination of suspected allergens in fragrances  
M. Maimone, F. A. Franchina, G. Purcaro, P. Q. Tranchida, L. Mondello

Poster Communication

- 231) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Detailed characterization of complex natural matrices and identification of unknown compounds to be added into a dedicate database for the flavour and fragrance field  
G. Micalizzi, M. Utczas, G. Purcaro, D. Sciarrone, L. Mondello  
Poster Communication
- 232) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Characterisation of the volatile and non-volatile fraction in processed and native arbutus unedo  
M. Utczas, G. Purcaro, F. Cacciola, D. Giuffrida, L. Mondello  
Poster Communication
- 233) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Embedded linear retention indices in ms spectra database: reliable identification of complex samples in the flavour and fragrance field  
M. Utczas, G. Micalizzi, G. Purcaro, L. Mondello  
Poster Communication
- 234) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Isolation of unknown molecules from plant extracts exploiting a multidimensional gc-prep system followed by nmr, ms and ftir for structural identification  
D. Sciarrone, L. Mondello  
Poster Communication
- 235) XXVI Congresso della Divisione di Chimica Analitica, Giardini Naxos, 18-22 Settembre 2016  
Supercritical fluid chromatography×ultra high pressure liquid chromatography with ion mobility mass spectrometry detection  
P. Donato, V. Inferrera, D. Giuffrida, F. Cacciola, P. Dugo, L. Mondello  
Poster Communication
- 236) 130th Annual Meeting & Exposition, Dallas, USA, September 18-21, 2016  
A unified analytical tool for green extraction and determination of both targeted and untargeted analysis  
Mariosimone Zoccali and Luigi Mondello  
Invited Oral Communication
- 237) 130th Annual Meeting & Exposition, Dallas, USA, September 18-21, 2016  
On-line liquid-liquid chromatography coupled to gas chromatography for the determination of mineral oil contamination in vegetable oils  
Mariosimone Zoccali, Giorgia Purcaro, Luigi Mondello  
Poster Communication
- 238) XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Comprehensive liquid chromatography-triple quadrupole mass spectrometry for determination of wine bioactives and pesticides  
Francesco Cacciola, Paola Donato, Francesca Rigano, Luigi Mondello, Paola Dugo  
Oral Communication

- 239) XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Traceability of food ingredients by gas chromatography-combustion-isotope ratio mass spectrometry (gc-c-irms)  
Ivana Bonaccorsi, Luisa Schipilliti, Paola Dugo, Luigi Mondello  
Oral Communication
- 240) XI National Congress of Food Chemistry (CHIMALI2016), Cagliari, October 4-7, 2016  
Limonoids in citrus industry by-products, characterization and isolation by means of high pressure liquid chromatography  
Marina Russo, Ivana Lidia Bonaccorsi, Luigi Mondello, Paola Dugo  
Oral Communication
- 241) Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Impact of Ultra Performance Convergence Chromatography (UPC2) on the Analysis of Natural Products. Mono- and multidimensional Approaches  
Paola Donato, Veronica Inferrera, Daniele Giuffrida, Paola Dugo, Luigi Mondello  
Oral Communication
- 242) Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Use of advanced analytical systems and innovative approaches to improve identification capability in LC  
Francesca Rigano, Luigi Mondello  
Oral Communication
- 243) Seminario Waters, Food Technology News, Milano, 22 Novembre 2016  
Flow-modulated comprehensive 2D gas chromatography combined with Atmospheric Pressure Gas Chromatography triple quad MS detector  
Mariosimone Zoccali, Luigi Mondello  
Oral Communication
- 244) The 20th Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2017), Tel Aviv, Israel, January 24-25, 2017  
Comprehensive 2d gas chromatography combined with rapid-scanning triple quadrupole ms: powerful tools for the analysis of complex samples  
Mariosimone Zoccali, Luigi Mondello  
Oral Communication
- 245) The 20th Annual Meeting of the Israel Analytical Chemistry Society (ISRA 2017), Tel Aviv, Israel, January 24-25, 2017  
Pesticides quantification in food samples by means of scale-reduced QuEChERS approach coupled to fast GC-QqQ MS  
Mariosimone Zoccali, Antonino Schepis, Luigi Mondello  
Poster Communication
- 246) SMART CHEM 2017 Innovazioni nel laboratorio chimico, farmaceutico, agroalimentare, ambientale ed industriale  
Applicazione di metodi analitici avanzati per la caratterizzazione di pigmenti in matrici vegetali  
Daniele Giuffrida, Francesco Cacciola, Paola Donato, Luigi Mondello, Paola Dugo  
Oral Communication
- 247) SMART CHEM 2017 Innovazioni nel laboratorio chimico, farmaceutico, agroalimentare, ambientale ed industriale  
Gascromatografia multidimensionale "comprehensive" con l'utilizzo di un



modulatore a flusso accoppiata ad uno spettrometro di massa a triplo quadrupolo  
Mariosimone Zoccali, Mariarosa Maimone, Luigi Mondello  
Oral Communication

- 248) 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
- 249) 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
- 250) 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
- 251) 33rd 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
- 252) 33rd 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
- 253) 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
- 254) Analytica Vietnam 2017, I.C.E. International Center for Exhibition, Hanoi, Vietnam, March 29-31, 2017  
M. Utczas, 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

- 255) 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
- 256) 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
- 257) 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
- 258) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 259) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 260) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 261) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 262) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th GC×GC Symposium, Fort Worth, TX, USA, May 14-19, 2017  
Mariasosa Maimone, Mariosimone Zoccali, Paola Dugo, Luigi Mondello  
Determination of biomarkers in petrochemical samples by using FM-GC×GC-QqQ MS

Oral Communication

- 263) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 264) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 265) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 266) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 267) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 268) The 41st International Symposium on Capillary Chromatography (ISCC) & The 14th 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
- 269) 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
- 270) 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

- 271) 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
- 272) 65th 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
- 273) 65th 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
- 274) HPLC 2017 - 45th 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
- 275) HPLC 2017 - 45th 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
- 276) HPLC 2017 - 45th 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
- 277) HPLC 2017 - 45th 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
- 278) HPLC 2017 - 45th 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

- 279) HPLC 2017 - 45th 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
- 280) HPLC 2017 - 45th 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
- 281) Extech 2017, 19th 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
- 282) Extech 2017, 19th 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
- 283) 2nd MS NatMED Day. Natural Molecules and Molecular Complexes: Characterization and Biomedical Effects. Aboca – Sansepolcro, June 28th – 30th, 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
- 284) 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
- 285) 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

- 286) 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
- 287) 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
- 288) 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
- 289) 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
- 290) 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
- 291) 8th International Carotenoids Society Symposium, Lucerne, July 9th-14th 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
- 292) 8th International Carotenoids Society Symposium, Lucerne, July 9th-14th 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

- 293) IVAS 2017, 10th 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
- 294) 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
- 295) 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
- 296) 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
- 297) 15th Euro Fed Lipid Congress Oil, Fats and Lipids: New Technologies  
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
- 298) XXVI Congresso Nazionale della Società Chimica Italiana Centro Congressi Hotel Ariston Paestum (SA), Italy, 10-14 settembre 2017  
Paola Donato, Veronica Infrerra, 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
- 299) 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
- 300) 48th 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

- 301) 48th 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
- 302) 48th 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
- 303) 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
- 304) 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
- 305) 5th Weurman Flavour Research Symposium, Graz, Austria September 18th-22nd, 2017  
Adriana Arigò, Paola Dugo, Luigi Mondello  
Characterization of the Oxygen Heterocyclic Compounds (Coumarins, Psoralens, and Polymethoxylated Flavones) in Cosmetic Products  
Invited Oral Communication
- 306) 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
- 307) 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
- 308) 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 1D + 2D column: concept, method optimization and applications



Invited Oral Communication

- 309) 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
- 310) Waters MS TECHNOLOGY DAY 2017, Milano, 19 settembre 2017  
Francesca Rigano, Luigi Mondello  
REIMS per il controllo delle frodi alimentari  
Oral Communication
- 311) XIXth EuroFoodChem Conference, Budapest, Hungary, 4th-6th 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
- 312) 8th 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
- 313) 8th 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
- 314) 8th 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
- 315) 10° 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
- 316) 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24th- 26th  
Luigi Mondello  
Flow-modulated two-dimensional gas chromatography coupled to tandem mass spectrometry for “comprehensive” characterization of complex samples

Invited Oral Communication

- 317) 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24th- 26th  
Paola Dugo, Luigi Mondello  
Exploiting Comprehensive two-dimensional liquid chromatography in food analysis  
Invited Oral Communication
- 318) 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24th- 26th  
Paola Dugo, Francesco Cacciola, Francesca Rigano, Luigi Mondello  
Analysis of food products using advanced analytical techniques  
Invited Oral Communication
- 319) 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24th- 26th  
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
- 320) 15th International Symposium on Hyphenated Techniques in Chromatography and Separation Technology, Cardiff, UK, January 24th- 26th  
Mariosimone Zoccali, Luigi Mondello  
Solutions for allergens in fragrances  
Invited Oral Communication
- 321) 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
- 322) 34th 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
- 323) 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
- 324) 5th Kuwait Conference of Chemistry (KCC 2018), Kuwait City, March 12- 14th, 2018  
P.Q. Tranchida, M. Zoccali, L. Mondello  
An Innovative 5-Dimensional System (LC-GC×GC-MS/MS) for the Analysis of Petroleum Derivatives  
Invited Oral Communication
- 325) 1st 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
- 326) 1st 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
- 327) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 328) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 329) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 330) 42nd International Symposium on Capillary Chromatography and 15th 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
- 331) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 332) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 333) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 334) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 335) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 336) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 337) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 338) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 339) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 340) 42nd International Symposium on Capillary Chromatography, and 15th 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

- 341) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 342) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 343) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 344) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 345) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 346) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 347) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 348) 42nd International Symposium on Capillary Chromatography, and 15th 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

- 349) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 350) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 351) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 352) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 353) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 354) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 355) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 356) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 357) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 358) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 359) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 360) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 361) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 362) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 363) 42nd International Symposium on Capillary Chromatography, and 15th 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

- 364) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 365) 42nd International Symposium on Capillary Chromatography, and 15th 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
- 366) 12th 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
- 367) 11th 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
- 368) 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
- 369) XII Congresso Società Italiana di Microbiologia Farmaceutica, Camerino, 21-22 giugno 2018  
Hajer Tili, 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
- 370) 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
- 371) 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



- 372) 47th 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
- 373) 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
- 374) 132nd 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
- 375) 132nd 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
- 376) 132nd 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
- 377) 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
- 378) 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
- 379) XVII SILAE Congress, September 9-13th 2018, Milazzo, Italy  
Cacciola F., Dugo P., Mondello L.  
Comprehensive two-dimensional liquid chromatography in food and natural products analysis  
Oral Communication
- 380) XVII SILAE Congress, September 9-13th 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

- 381) 49th International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13th-16th  
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
- 382) 49th International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13th-16th  
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
- 383) 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
- 384) 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
- 385) 49th International Symposium on Essential Oils (ISEO 2018), Niš, Serbia, 13th-16th  
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
- 386) 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
- 387) 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

- 388) 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
- 389) 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
- 390) 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
- 391) 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
- 392) 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
- 393) 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 Brazilian variety ("Pera")  
Poster Communication
- 394) 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
- 395) 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

- 396) 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
- 397) 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
- 398) 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
- 399) 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
- 400) 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
- 401) 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
- 402) 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
- 403) 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

- 404) 10th 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
- 405) 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
- 406) 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
- 407) 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
- 408) 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
- 409) 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
- 410) 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
- 411) 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
- 412) 43rd International Symposium on Capillary Chromatography & 16th 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

- 413) 43rd International Symposium on Capillary Chromatography & 16th 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
- 414) 43rd International Symposium on Capillary Chromatography & 16th 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
- 415) 43rd International Symposium on Capillary Chromatography & 16th 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
- 416) 43rd International Symposium on Capillary Chromatography & 16th 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
- 417) 43rd International Symposium on Capillary Chromatography & 16th 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
- 418) 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
- 419) 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

- 420) 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
- 421) 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
- 422) Politechnika Wroclawska, Wroclav, Poland, June 4, 2019  
Luigi Mondello  
Separation Science and Food Chemistry the Perfect Marriage  
Invited Oral Communication
- 423) 67th 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
- 424) 48th 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
- 425) 48th 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
- 426) 48th 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
- 427) 48th 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
- 428) 48th 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
- 429) 48th 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
- 430) 48th 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
- 431) 48th 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
- 432) 48th 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
- 433) 48th 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
- 434) 48th 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
- 435) VII Workshop Nazionale Gruppo Interdivisionale Green Chemistry– Chimica Sostenibile, Società Chimica Italiana, Padova, Italy, 5 luglio 2019 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

- 436) 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
- 437) 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
- 438) 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
- 439) 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
- 440) 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
- 441) 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
- 442) 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
- 443) 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
- 444) 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
- 445) 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
- 446) 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
- 447) 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
- 448) 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
- 449) 26th International Symposium on Electroseparation and Liquid Phase-Separation Techniques (ITP 2019), Toulouse, 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
- 450) 26th International Symposium on Electroseparation and Liquid Phase-Separation Techniques (ITP 2019), Toulouse, 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
- 451) 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

- 452) 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
- 453) 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
- 454) 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
- 455) 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
- 456) 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
- 457) 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
- 458) 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
- 459) 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

- 460) 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
- 461) 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
- 462) 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
- 463) 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
- 464) 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
- 465) 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
- 466) 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
- 467) 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

- 468) 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
- 469) 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
- 470) 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
- 471) 6th 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
- 472) 17th 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
- 473) 17th Euro Fed Lipid Congress And Expo, Seville, Spain, October 20-23, 2019  
Giusepppe 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
- 474) 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

- 475) Shimadzu & Merck Workshop Analisi degli Alimenti, Bologna, October 22, 2019  
Paola Dugo, Luigi Mondello  
Determinaton of the polyphenolic fraction of Pistacia vera L. Kernel extracts by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry detection  
Invited Oral Communication
- 476) 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
- 477) 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
- 478) 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
- 479) Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019  
Tania Salerno, Paola Donato, Gianpietro Frison, Luigi Mondello  
Identiifcation of New Psychoactive Substances in Seized Materials by Means of GC-FTIR Technique  
Oral Communication
- 480) 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
- 481) 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
- 482) 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
- 483) 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

- 484) 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
- 485) 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
- 486) 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
- 487) 11° Encontro Nacional de Cromatografia (11ENC), Caparica, Portugal, December 9-11, 2019  
Paola Dugo, Francesco Cacciola, Katia Arena and Luigi Mondello  
Smart<sup>2</sup> 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
- 488) 11th Multidimensional Chromatography Workshop, Honolulu, Hawaii, January 5-7, 2020  
Luigi Mondello  
CO<sub>2</sub>-based chromatography × reversed-phase liquid chromatography with quadrupole time-of-flight and IMS detection: A proof of concept  
Invited Oral Communication
- 489) 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
- 490) 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  
Carotenoids and Apocarotenoids Determination by SFE/SFC Triple Quadrupole

Mass Spectrometry  
Invited Oral Communication