

LIST OF CONFERENCE

- 1 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
- 2 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
- 3 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
- 4 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
- 5 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
- 6 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

- 7 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
- 8 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
- 9 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
- 10 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
- 11 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

- 12 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
- 13 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
- 14 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
- 15 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
- 16 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

- 17 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
- 18 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
- 19 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
- 20 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
- 21 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

- 22 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
- 23 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
- 24 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
- 25 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
- 26 Incontri di Scienza delle Separazioni, Napoli, Italy, 28-29 Novembre 2019
Tania Salerno, Paola Donato, Gianpietro Frison, Luigi Mondello
Identifiication of New Psychoactive Substances in Seized Materials by Means of GC-FTIR Technique
Oral Communication

- 27 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
- 28 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
- 29 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
- 30 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
- 31 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
- 32 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
- 33 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
Oral Communication

- 34** 11° Encontro Nacional de Cromatografia (11ENC), Caparica, Portugal, December 9-11, 2019
Paola Dugo, Francesco Cacciola, Katia Arena and Luigi Mondello
Smart” Gradients for Enhancing Peak Capacity in Comprehensive Two-dimensional Liquid Chromatography under Reversed-phase Conditions: Application to Polyphenols in Food and Natural Real-world Samples
Invited Oral Communication
- 35** 11th Multidimensional Chromatography Workshop, Honolulu, Hawaii, January 5-7, 2020
Luigi Mondello
“CO₂-based chromatography x reversed-phase liquid chromatography with quadrupole time-of-flight and IMS detection: A proof of concept
Invited Oral Communication
- 36** 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
- 37** 3rd Edition of Euro-Global Conference on Food Science and Technology (FAT 2020), July 13-14, 2020
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello
Comprehensive Two-dimensional Liquid Chromatography under Reversed-phase Conditions for Polyphenol analysis in Complex Food and Food-related Products
Invited Oral Communication
- 38** 16th Annual Workshop on Emerging High-Resolution Mass Spectrometry and LC-MS/MS Applications in Environmental Analysis and Food Safety, Online, October 15-16, 2020
P.Q. Tranchida, I. Aloisi, M. Zoccali, P. Dugo, L. Mondello
Analytical potential of comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry within the context of environmental and food analysis

- 39 Oral Communication
16th Annual Workshop on Emerging High-Resolution Mass Spectrometry and LC-MS/MS Applications in Environmental Analysis and Food Safety, Online, October 15-16, 2020
I. Aloisi, M. Zoccali, P. Dugo, P.Q. Tranchida, L. Mondello
Cryogenically-modulated comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry: fingerprint of the unsaponifiable fraction of vegetable oils
Poster Communication
- 40 16th Annual Workshop on Emerging High-Resolution Mass Spectrometry and LC-MS/MS Applications in Environmental Analysis and Food Safety, Online, October 15-16, 2020
I. Aloisi, M. Zoccali, P.Q. Tranchida, L. Mondello
Investigation of organic sulphur compounds in coal tar by using comprehensive two-dimensional gas chromatography-high resolution time-of-flight mass spectrometry
Poster Communication
- 41 2021 On-line Forensic Symposium- Current Trends in Seized Drug Analysis, January 18th-22nd, 2021
Paola Donato, Tania Salerno, Carmelo Coppolino, Giampietro Frison, Luigi Mondello
Solid-Phase GC-FTIR for the Analysis of Illicit Drug Isomers
Invited Oral Communication
- 42 2021 online Forensic symposium- Current Trends in Seized Drug Analysis, 18-22 Gennaio 2021
Paola Donato, Tania Salerno, Carmelo Coppolino, Giampietro Frison, Luigi Mondello
“Analysis of synthetic cannabinoids and cathinones by solid-phase deposition GC-FTIR”
Poster Communication

- 43 12th Multidimensional Chromatography Virtual Workshop, February 1-3, 2021
Zoccali, Mariosimone; Tranchida, Peter Q.; Mondello, Luigi
Fulfilling the EU Guidance on Mineral oil analysis using LC-GC based analysis
Oral Communication
- 44 2nd Edition of Global Webinar on Food Science and Nutrition (FSN 2021), February 26-27, 2021
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello
Unravelling Polyphenolic Composition in Complex Food and Natural Products by Comprehensive Two-dimensional Liquid Chromatography
Invited Oral Communication
- 45 2nd Edition of Global Webinar on Food Science and Nutrition (FSN 2021), February 26-27, 2021
Y. Oulad El Majdoub, F. Alibrando, F. Cacciola, K. Arena, E. Pagnotta, P. Dugo, L. Mondello
Evaluation of chemical bioactive compounds in three cultivars of *Brassica juncea* L. by HPLC-PDA/ESI-MS
Oral Communication
- 46 1st European Sample Preparation e-Conference, March 11-12, 2021
M. Zoccali, A. Arena P.Q. Tranchida, L. Mondello
Development of a Low-Cost, Lab-Made Y-Interface for LC-GC Coupling for On-line Analysis in a Fully Automatized Way of Mineral Oils in Food Samples
Oral Communication
- 47 1st European Sample Preparation e-Conference, March 11-12, 2021
D. Donnarumma, G. Micalizzi, F. Rigano, L. Mondello
Automatization and Miniaturization of Sample Preparation of Food and Biological Samples for Lipidomics Studies
Oral Communication
- 48 International Webinar on Food Science & Food Chemistry, June 4-5, 2021
Francesco Cacciola, Katia Arena, Paola Dugo, Luigi Mondello
Exploiting Comprehensive Two-dimensional Liquid Chromatography for the Determination of the Polyphenolic Content of Complex Food and Natural Products
Invited Oral Communication

- 49 18th GC×GC International Symposium, June 7-11, 2021
Tania M.G. Salerno, Carmelo Coppolino, Mariosimone Zoccali, Luigi Mondello
GC×GC-sd-FTIR/MS for Reliable Identification in the Foodomics Field
Invited Oral Communication
- 50 18th GC×GC International Symposium, June 7-11, 2021
Mariosimone Zoccali, Micaela Galletta, Paige E. Sudol, Peter Q. Tranchida, Luigi Mondello, Robert E. Synovec
Untargeted Profiling and Differentiation of Geographical Variants of Wine Samples Using
Headspace SPME-GC×GC-ToFMS Coupled with Tile-based Fisher Ratio Analysis
Oral Communication
- 51 18th GC×GC International Symposium, June 7-11, 2021
Ivan Aloisi, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello
Use of Comprehensive Two-Dimensional Gas Chromatography-High Resolution Time-of-Flight Mass Spectrometry for the Investigation of Organic Sulphur Compounds in Coal Tar
Oral Communication
- 52 18th GC×GC International Symposium, June 7-11, 2021
Barbara Giocastro, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello
Evaluation of Different Internal Diameter Modulation Columns within the Context of Solid-State Modulation
Oral Communication
- 53 The First International Congress on Pure and Applied Sciences, Meknes, Morocco, June 23-25, 2021
Imane Haoujar, Mohammed Haoujar, Adil Essafi, Hicham Chairi, Luigi Mondello, Francesco Cacciola
Production of lipids in cultivated microalgae isolated from Mediterranean Seawater
Oral Communication
- 54 ExTech21, Alicante online event, 30th June-2nd July 2021
Mariosimone Zoccali, Marina Russo, Mariarita Testa Camillo, Luigi Mondello
On-line SFE-Enantioselective-SFC-QQQ MS for the determination of chiral pesticides in hemp seeds: a proof-of-principle study
Oral Communication
- 55 Site Management Analytics Seminar, Merck Life Science on-line, 23rd August 2021
Luigi Mondello
The role of a Spin-off Company in Analytical Chemistry. A fruitful collaboration with Merck Company

Invited Oral Communication

- 56 Site Management Analytics Seminar, Merck Life Science on-line, August 23th 2021
Fulfilling the EU Guidance on Mineral oil analysis using LC-GC based analysis
Mariosimone Zoccali, Luigi Mondello
Oral communication
- 57 Site Management Analytics Seminar, Merck Life Science on-line, 23rd August 2021
Tania Salerno and Luigi Mondello
Gas Chromatography coupled to solid deposition Fourier Transform Infrared Spectroscopy: a useful identification tool in routine forensic casework
Oral Communication
- 58 Molecules 2021 Webinar Advances in Food Chemistry September 6th 2021
Francesco Cacciola, Aziz Bouymajane, Yassine Oulad El Majdoub, Marina Russo, Paola Dugo, Luigi Mondello
Characterization of Phenolic Compounds, Vitamin E and Fatty Acids from Monovarietal Virgin Olive Oils of “Picholine marocaine” Cultivar
Invited Oral Communication
- 59 116° Congresso della Società Botanica Italiana VII INTERNATIONAL PLANT SCIENCE CONFERENCE (IPSC) Online, September 8-10 2021
Emilia Cavò, Natalizia Miceli, Federica Davì, Vivienne Spadaro, Francesco M. Raimondo, Salvatore Ragusa, Francesco Cacciola, Yassine Oulad El Majdoub, Luigi Mondello, Maria Fernanda Taviano
Phenolic constituents, antioxidant activity and toxicity assessment of the aerial part extracts from the infraspecific taxa of *Matthiola fruticulosa* (Brassicaceae) endemic to Sicily
Oral Communication
- 60 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Luigi Mondello
Recent Developments in Mass spectrometry and Cutting Edge Scientific Innovation to Characterize Complex Samples
Invited Oral Communication
- 61 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Peter Q. Tranchida, Ivan Aloisi, Antonio Ferracane, Mariosimone Zoccali, Luigi Mondello Options of 1D GC, flow-modulation signal-enhanced 1D GC and flow-modulation comprehensive 2D GC in a single instrument: a proof-of-concept study
Oral Communication

- 62 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Triacylglycerol Fingerprinting in Vegetable Oils by means of Subcritical Solvent Chromatography
Paola Donato, Marianna Oteri, Paola Arena, Luigi Mondello
Oral Communication
- 63 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Danilo Sciarrone, Lorenzo Cucinotta, Gemma de Grazia, Luigi Mondello
Reliability of monodimensional vs multidimensional GC-C-IRMS data: a critical evaluation
Oral Communication
- 64 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello
Is There a Real Need for Multidimensional Chromatography Strategies with the Current Availability of Powerful Mass Spectrometry Platforms?
Invited Oral Communication
- 65 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Katia Arena, Francesco Cacciola, Paola Dugo, Luigi Mondello
Characterization of bioactive compounds from natural products using focusing-modulated comprehensive two-dimensional liquid chromatography coupled to mass spectrometry
Oral Communication
- 66 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Adriana Arigò, Francesca Rigano, Paola Dugo, Luigi Mondello.
Analytical methods in clinical lipidomics: HPLC and SFC comparison for the analysis of lipid mediators in clinical samples
Oral Communication
- 67 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Alessia Arena, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello
Mineral oil investigation in omega-3 rich lipid supplements by using multidimensional

liquid-gas chromatography
Oral Communication

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XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI
2021, on-line, 14-23 Settembre 2021

Paola Arena, Francesca Rigano, Domenica Mangraviti, Danilo Donnarumma, Paola Dugo, Paola Donato, Luigi Mondello, Giuseppe Micalizzi.

A Holistic Approach to the Characterization of High-Value Generating Molecules from the Wastes of Tuna Fishery Industry.

Oral Communication

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XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI
2021, on-line, 14-23 Settembre 2021

Lorenzo Cucinotta, Gemma de Grazia, Danilo Sciarrone, Luigi Mondello.

Simultaneous Enantiomeric and Isotopic Ratio evaluation of target terpenes in Cannabis sativa essential oils through Enantio-MDGC-C-IRMS

Oral Communication

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XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI
2021, on-line, 14-23 Settembre 2021

Gemma De Grazia, Lorenzo Cucinotta, Danilo Sciarrone, Paola Dugo, Luigi Mondello

Evaluation of cryogenic effect for target VOCs isolation by a preparative multidimensional gas chromatographic system

Oral Communication

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XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI
2021, on-line, 14-23 Settembre 2021

Danilo Donnarumma, Roberta La Tella, Federica Vento, Francesca Rigano, Luigi Mondello

Identification and quantification of toxic compounds and essential molecules in the context of tuna fishery industry waste valorization

Oral Communication

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XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI
2021, on-line, 14-23 Settembre 2021

A. Ferracane, M. Zoccali, P.Q. Tranchida, L. Mondello

Simultaneous determination of 88 multi-class pesticide residues in four vegetable matrices using reduced QuEChERS extraction and flow-modulated comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry

Oral Communication

- 73 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Micaela Galletta, Mariosimone Zoccali, Peter Q. Tranchida, Luigi Mondello
Evaluation of use of hydrogen as carrier gas in flow-modulation comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry
Oral Communication
- 74 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Roberta La Tella, Francesca Rigano, Luigi Mondello
Evaluation of carbon-clad zirconia columns as stationary phases for superheated water liquid chromatography
Oral Communication
- 75 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Domenica Mangraviti, Francesca Rigano, Paola Dugo
Luigi Mondello a,b,c,d Differentiation and profiling of Morocco species belonging to Lamiaceae Family by Ambient Mass Spectrometry methods
Oral Communication
- 76 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Giuseppe Micalizzi, Filippo Alibrando, Federica Vento, Paola Dugo and Luigi Mondello.
Microwave distillation technique for the isolation of Cannabis Sativa L. essential oils and GC-MS/FID analysis for terpenes and terpenoids characterization.
Oral Communication
- 77 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Tania M. G. Salerno, Carmelo Coppolino, Mariosimone Zoccali, Paola Donato, Luigi Mondello
The Coupling of Gas Chromatography - Mass Spectrometry with Infrared Spectroscopy for Reliable Identification of Unknowns in Complex Samples
Oral Communication
- 78 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Emanuela Trovato, Adriana Arigò, Federica Vento, Paola Dugo, Luigi Mondello
Characterization of volatile and non volatile compounds in citrus beer to evaluate product quality for food frauds prevention.
Oral Communication

- 79 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Paola Arena, Danilo Sciarrone, Paola Dugo, Paola Donato, Luigi Mondello.
The Coupling of Silver Thiolate×Non-aqueous Reversed Phase Retention Mechanisms for the Elucidation of Triacylglycerol Profile in Borage Seed Oil Samples.
Poster Communication
- 80 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Paola Arena, Francesca Rigano, Paola Dugo, Luigi Mondello
Characterization of Triacylglycerols in Hemp Derived Products by means of Ultra-High Performance Liquid Chromatography Coupled to Mass Spectrometry Detection
Poster Communication
- 81 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Carmelo Coppolino, Tania Salerno, Paola Donato, Luigi Mondello
HPLC-FTIR: a proof of concept
Poster Communication
- 82 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Carmelo Coppolino, Tania Salerno, Paola Donato, Giampietro Frison, Luca Zamengo, Luigi Mondello
Chiral analysis of Methorphan's enantiomers by HPLC coupled with FTIR
Poster Communication
- 83 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Roberta La Tella, Francesca Rigano, Luigi Mondello
Qualitative screening of non-psychoactive cannabinoids in Cannabis Sativa L. inflorescence by linear retention index approach using hand-portable liquid chromatography
Poster Communication
- 84 XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Yassine Oulad El Majdoub, Francesco Cacciola, Giuseppina Mandalari, Paola Dugo, Luigi Mondello
High performance liquid chromatography coupled to mass spectrometry for the analysis

of H. sabdariffa bioactive compounds in simulated human digestion model
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- 85** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Paola Donato, Paola Arena, Luigi Mondello
Optimization of the Analytical Conditions for Reversed Phase Separation of Egg White Intact Proteins
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Domenica Mangraviti, Francesca Rigano, Adriana Arigò, Paola Dugo, Luigi Mondello
Preservation and Valorization of Italian Extra Virgin Olive Oils by Rapid Evaporative Ionization Mass Spectrometry
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- 87** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
M.R. Testa Camillo, M. Russo, A. Arigò, P. Dugo, L. Mondello
Determination of coumarins, furocoumarins and polymethoxyflavones in cold-pressed Citrus essential oils using SFC-QqQ-MS
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- 88** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
Federica Vento, Danilo Donnarumma, Emanuela Trovato, Giuseppe Micalizzi, Luigi Mondello
Development and validation of a fast GC method for the quantification of free amino acids in biological samples
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- 89** XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA- SCI 2021, on-line, 14-23 Settembre 2021
A. Ferracane, M. Galletta, G. Micalizzi, M. Zoccali, P.Q. Tranchida, L. Mondello
Development of a reduced-scale fully-automated method to determine the fatty acid content in human blood by using a robotic station coupled with fast GC-MS
Poster Communication

- 90 5th EuChemS Conference on Green and Sustainable Chemistry (5th EuGSC), on-line, September 26th-29th 2021
Mariosimone Zoccali, Marina Russo, Mariarita Testa Camillo, Luigi Mondello
Determination of chiral pesticides in hemp seeds by means of on-line SFE-enantioselective-SFC-QqQ MS: a proof-of-principle study
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- 91 Separation Science: The State Of The Art, on-line, October 14th,15th,18th, 2021
Paige E. Sudol, Micaela Galletta, Peter Q. Tranchida, Mariosimone Zoccali,Luigi Mondello, Robert E. Synovec
Untargeted Profiling and differentiation of Geographical Variants of Wine Samples Using HS SPME FM GC×GC ToF MS with the Support of Tile-Based Fisher Ratio Analysis
Invited Oral Communication
- 92 XVIII Colacro Congreso Latino-americano de Cromatografía Y Tecnicas Afines, on-line, October 11-15 2021
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Comprehensive Gas Chromatography for the Analysis of High Complex Samples. An Overview of different approaches.
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- 93 XVIII Colacro Congreso Latinoamericano de Cromatografía Y Tecnicas Afines, on-line, October 11-15 2021
Paola Dugo, Katia Arena, Francesco Cacciola, Luigi Mondello
Comprehensive two-dimensional liquid chromatography coupled to mass spectrometry for unravelling of complex natural products
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- 94 La tossicologia forense oggi. Vecchie e nuove sfide, tecnologie avanzate e interpretazione del dato – **incontri GTFI 2021**, Vicenza, 29-29 October 2021
Flavio Zancanaro, Samuela Frasson, Tania M. G. Salerno, Paola Donato, Luigi Mondello, Giampietro Frison
Identificazione di 3-MMC e di 3-MeO-PCP e relativi metaboliti in campioni non biologici e biologici in due casi di intossicazione acuta. Ruolo di LC-HRAM-Orbitrap-MS e Solid Deposition GC- FTIR
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Luigi Mondello

Innovative Advanced Analytical Methods in Biomedical Sciences

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AMYC-BIOMED 2021, 3-5 November 2021 - Virtual Conference

Antonio Ferracane, Giuseppe Micalizzi, Mariosimone Zoccali, Peter Q. Tranchida and Luigi Mondello

Investigation of fatty acids content in commercially available ω -3 dietary supplements by using a robotic work-station

coupled with fast GC-MS

Poster Communication