

Incontri di Scienza delle Separazioni



**12-13 ottobre 2023 - Aula Adriatico - Polo turistico
dell'Università degli Studi del Molise, Termoli**

Giovedì – 12 ottobre 2023	
12:00 - 14.00	Registrazione
12:30 – 13:30	Aperipranzo
14:00 - 14:30	Saluti di benvenuto: Prof.ssa Gabriella Scippa (<i>Direttore DBT, Università del Molise</i>) Prof.ssa Elena Sorrentino (<i>Direttore DiAAA, Università del Molise</i>) Premiazioni: Medaglia Giovanni Dugo e Giovane Ricercatore
14:30 – 15:00 (KN)	<u>Giovanni Ventura</u> <i>LC-MS approaches for lipid classes discovery</i> Università degli Studi di Bari Aldo Moro
I session of oral communications: Food & Safety	
Chair: Prof.ssa Paola Donato & Prof. Ilario Losito	
15:00 – 15:15 OR1.1	<u>Alessia Arena</u> <i>A fully automated multidimensional method for polycyclic aromatic hydrocarbon determination in olive oil</i> Università degli Studi di Messina
15:15 – 15:30 OR1.2	<u>Mariachiara Bianco</u> <i>Identification of qualifier and quantifier marker peptides of spirulina allergens by liquid chromatography coupled to mass spectrometry</i> Università degli Studi di Bari Aldo Moro
15:30 – 15:45 OR1.3	<u>Marco Iammarino</u> <i>Radiochemical separations in food safety control: the example of Sr-90</i> Istituto Zooprofilattico Sperimentale di Puglia e Basilicata
15:45 – 16:00 OR1.4	<u>Sara Palmieri</u> <i>A class-selective extraction of aflatoxins by molecularly imprinted polymers approach in dietary supplements</i> Università degli Studi di Teramo
16:00 – 16:15 OR1.5	<u>Sara Elsa Aita</u> <i>Metabolic syndrome-preventive peptides derived from hemp seed proteins</i> Università degli Studi di Roma La Sapienza
16:15 – 16:30 OR1.6	<u>Gabriele Trotta</u> <i>Radiochemical separation of transuranic elements in food, feed and environmental matrices</i> Istituto Zooprofilattico Sperimentale di Puglia e Basilicata
16:30 – 16:45 OR1.7	<u>Giovanna Cafeo</u> <i>Development of a fast and environmentally sustainable HPLC-QqQ-MS method to characterize oxygen heterocyclic compounds in citrus products</i> Università degli Studi di Messina
16:45 – 17:15	Pausa caffè e sessione poster
II session of oral communications: Health & Clinic	
Chair: Prof.ssa Anna Laura Capriotti & Prof. Fabio Gosetti	
17:15 – 17:30 OR2.1	<u>Andrea Cerrato</u> <i>A novel analytical platform based on Kendrick mass defect filtering for investigating acylcarnitine biomarkers in prostate cancer tissue</i> Università degli Studi di Roma La Sapienza

17:30 – 17:45 OR2.2	<u>Desiree Bozza</u> <i>Greening downstream processing of biopharmaceuticals through multicolumn continuous preparative liquid chromatography and eco-friendly solvents</i> Università degli Studi di Ferrara
17:45 – 18:00 OR2.3	<u>Micaela Galletta</u> <i>Aptamer-based sorbents for the selective extraction of mycotoxins from urine samples</i> Università degli Studi di Messina
18:00 – 18:15 OR2.4	<u>Valentina Marassi</u> <i>Unravelling sample complexity to enable exosome-based liquid biopsy for colon cancer diagnosis: integration of miniaturized FFF to microfluidics</i> Università degli Studi di Bologna
18:15 – 18:30 OR2.5	<u>Carmela Maria Montone</u> <i>Hydrogels: a new frontier in the enrichment of N-glycopeptides</i> Università di Roma La Sapienza
18:30 – 18:45 OR2.6	<u>Miryam Perrucci</u> <i>DM4 and S-Me-DM4 quantification in biological matrix</i> Università degli Studi G. d'Annunzio Chieti-Pescara
18:45 – 19:00 OR2.7	<u>Enrico Taglioni</u> <i>Development and optimization of a green enrichment method for monitoring trace residues of free and conjugated estrogens using a graphitic carbon nitride-based sorbent</i> Università degli Studi di Roma La Sapienza
20:45	Cena Sociale: ristorante "Sottovento" (via Del Porto - Porto Turistico Marina di San Pietro, Termoli)

Venerdì – 13 ottobre 2023

III session of oral communications: Food Metabolites

Chair: Prof.ssa Cosima Damiana Calvano & Prof. Danilo Sciarrone

9:00 - 9:16 OR3.1	<u>Carmelo Coppolino</u> <i>Application of a new integrated GC-FTIR/MS approach for the univocal discrimination of cis/trans fatty acid isomers</i> Università degli Studi di Messina
9:15 - 9:30 OR3.2	<u>Angela Perrone</u> <i>Valorization of by-products of durum wheat milling by means of extraction of antioxidant compounds and ferulic acid</i> Università degli Studi di Napoli Federico II
9:30 – 9:45 OR3.3	<u>Susanna Della Posta</u> <i>Avocado peel: source of phenolic compounds extractable using green solvents</i> Università degli Studi Campus Bio-Medico di Roma
9:45 – 10:00 OR3.4	<u>Andrea Castellaneta</u> <i>A targeted GC-MS/MS approach for the determination of eight sterols in microgreen and mature plant material</i> Università degli Studi di Bari Aldo Moro
10:00 – 10:15 OR3.5	<u>Tatiana Chenet</u> <i>pH effect on the separation of lignin-derived natural compounds on high silica zeolite from water matrices for environmental applications</i> Università degli Studi di Ferrara

10:15 – 10:30 OR3.6	<u>Vittoria Terrigno</u> <i>Development of an eco-friendly HPLC-MS method for antioxidant compounds analysis in the rocket (<i>Eruca sativa</i>)</i> Università degli Studi Campus Bio-Medico di Roma
10:30 – 10:45 OR3.7	<u>Marco De Poli</u> <i>Investigating a sorbent-based sampling by single and two-stage thermal desorption coupled to comprehensive two-dimensional gas chromatography for the profiling of Cannabaceae species' floral parts</i> Università degli Studi di Ferrara
10:45 – 11:00 OR3.8	<u>Genny Grasselli</u> <i>Normal and reversed-phase liquid chromatography coupled to high-resolution electron ionization mass spectrometry in non-targeted analysis</i> Università di Urbino Carlo Bo
11:00 – 11:20	Pausa caffè e sessione poster
	IV session of oral communications: Miscellaneous
	Chair: Dott.ssa Martina Catani & Prof. Daniele Naviglio
11:20 – 11:35 OR4.1	<u>Roberta La Tella</u> <i>Porous graphitic carbon stationary phase: high-temperature liquid chromatography (HTLC) vs high-temperature supercritical fluid chromatography (HTSFC)</i> Università degli Studi di Messina
11:35 – 11:50 OR4.2	<u>Stefano Giordani</u> <i>HF5-multi-detection as powerful characterization and purification system for PtNP nanozyme probes for versatile chemiluminescence detection in bioanalytics</i> Università degli Studi di Bologna
11:50 – 12:05 OR4.3	<u>Lorenzo Cucinotta</u> <i>Evaluating more sustainable carrier gases in place of helium in the field of preparative multidimensional gas chromatography</i> Università degli Studi di Messina
12:05 – 12:20 OR4.4	<u>Davide Coniglio</u> <i>RPLC-ESI-MS investigation of dicarboxylic fatty acids occurring in oil paintings</i> Università degli Studi di Bari Aldo Moro
12:20 – 12:35 OR4.5	<u>Chiara Nosengo</u> <i>Integrated batch chromatography for oligonucleotides purification</i> Università degli Studi di Ferrara
12:35 – 12:50 OR4.6	<u>Muhammad Usman</u> <i>A comprehensive examination of amphetamine-type stimulants (ATS) in the Pakistani illicit drug market</i> Università degli Studi di Foggia
12:50 – 13:05 OR4.7	<u>Elena Rigante</u> <i>The Application of HPLC-DAD-MS to reveal organic dyes in mural artworks</i> Università degli Studi di Bari Aldo Moro
13:05 – 13:20	Premiazione dei vincitori delle borse di studio

Sessione Poster

#01	<u>Valeria Cinquepalmi</u> <i>Bioactive sterols in Brassica microgreens and baby leaves: an investigation by liquid chromatography and high-resolution mass spectrometry with atmospheric pressure chemical ionization</i> Università degli Studi di Bari Aldo Moro
#02	<u>Rossana Comito</u> <i>Optimization of a new GC-MS based method for identifying and quantifying multiclass pollutants in biological matrices: a powerful tool for human biomonitoring</i> Università degli Studi di Bologna
#03	<u>Barbara Del Greco</u> <i>Detection of cyclic silicones in Momentive Performance Materials products</i> Momentive Performance Materials
#04	<u>Cristina Di Fiore</u> <i>GC-MS/MS and GC-IT/MS for quantification of organic pollutants in Apis mellifera and honey</i> Università degli Studi del Molise
#05	<u>Fabiola Eugelio</u> <i>Quinolizidine alkaloids profile by means UHPLC-IDA-EPI-MRM analysis for food traceability</i> Università degli Studi di Teramo
#06	<u>Federico Fanti</u> <i>Endocannabinoid profile in brain tissue: fast micro-extraction for sensitive UHPLC-MS/MS analysis</i> Università degli Studi di Teramo
#07	<u>Vincenzo Ferrone</u> <i>Simple preparation of activated carbon sorbent from waste surgical mask face and its application in the solid phase extraction and UHPLC-PDA analysis of phthalates in water</i> Università degli Studi G. d'Annunzio Chieti-Pescara
#08	<u>Ludovica Sofia Guadalupi</u> <i>Proteomics study of natural rubber employed for tyre production</i> Università degli Studi di Bari Aldo Moro
#09	<u>Giuseppe Ianiri</u> <i>The Role of Atmospheric Deposition to Human Exposure to Persistent Organic Pollutants</i> Istituto Superiore di Sanità
#10	<u>Monica Mattarozzi</u> <i>High-resolution mass spectrometry-based proteomics as a new tool for ecchymotic skin examination in forensic pathology</i> Università degli Studi di Parma
#11	<u>Monica Mattarozzi</u> <i>Ultra-high performance liquid chromatography-ion mobility-high resolution mass spectrometry metabolomics for cereal quality</i> Università degli Studi di Parma



#12	<u>Debora Mignogna</u> <i>Analysis of the impact of emissions of aromatic components in incense on indoor air quality and human health</i> Università degli Studi del Molise
#13	<u>Donatella Nardiello</u> <i>2D-Carbon microfiber fractionation system to improve flow-injection QTOF-HRMS analysis of flower extracts</i> Università degli Studi di Foggia
#14	<u>Ivan Notardonato</u> <i>The Ferrara Pilot in the European Horizon project "EDIAQI" for evaluating the indoor air quality in residential environments</i> Università degli Studi del Molise
#15	<u>Eleonora Oliva</u> <i>Identification of antioxidant compounds by a multi-experimental approach using UHPLC-MS/MS analysis</i> Università degli Studi di Teramo
#16	<u>Maurizio Quinto</u> <i>Do you know GLME?</i> Università degli Studi di Foggia
#17	<u>Rachele Rocchi</u> <i>Detection of polar pesticides using high-resolution mass spectrometry: a system comparison of LC-HILIC vs IC-Anionic</i> Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise G.Caporale
#18	<u>Barbara Roda</u> <i>The "cell chromatograph": a quality control tool for cell-based products in biomedical fields</i> Università degli Studi di Bologna
#19	<u>Danilo Sciarrone</u> <i>Cryogenic trapping of highly volatile molecules by means of preparative multidimensional gas chromatography</i> Università degli Studi di Messina
#20	<u>Eligio Sebastiani</u> <i>Unravelling the chemical complexity of essential oils: in-depth characterization and profiling by GCxGC-MS</i> SRA Instruments Spa
#21	<u>Francesca Varchetta</u> <i>Efficient recovery of the bioactive principles of plants by comparison between solid-liquid extraction in mixture and single-vegetable matrices via maceration and RSLDE</i> Università degli Studi di Napoli

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