

1973-2023 – I primi 50 anni della Divisione di Chimica Analitica

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**Programma del
XXX Congresso della Divisione di Chimica Analitica
della Società Chimica Italiana**

1973-2023 – I primi 50 anni della Divisione di Chimica Analitica

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Palazzo D'Avalos, Città del Vasto (CH)

17-21 Settembre, 2023

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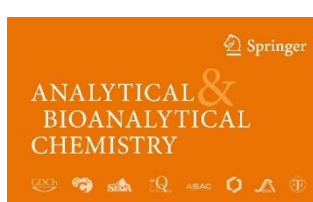
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Città Del Vasto

A nome dei Comitati Scientifico e Organizzatore, sono lieto di darvi il benvenuto al Congresso Nazionale della Divisione di Chimica Analitica, giunto alla sua XXX edizione.

Analitica 2023, prevede quattro giorni con conferenze plenarie, “keynotes”, presentazioni orali e poster, arricchiti da uno spazio espositivo dedicato agli sponsor, tra cui aziende che presentano innovazioni rilevanti per la chimica analitica e le aree correlate. L’evento vuole essere un punto di incontro e di confronto per tutti coloro che svolgono la propria attività nella ricerca chimico analitica, offrendo un luogo ideale per interagire con i colleghi e rinnovare vecchie amicizie.

Il congresso, organizzato dagli Atenei di Abruzzo e Molise, si terrà a Vasto, in una area mai frequentata da altri convegni della Divisione, e che si affaccia su un tratto di costa Adriatica molto suggestivo che vi invitiamo a visitare.

Con l’augurio che la Vostra partecipazione al Convegno si riveli un momento di arricchimento culturale e personale, soprattutto per i più giovani, che rappresentano la linfa ed il futuro della ricerca e per i quali la Divisione ha da sempre mostrato particolare attenzione.

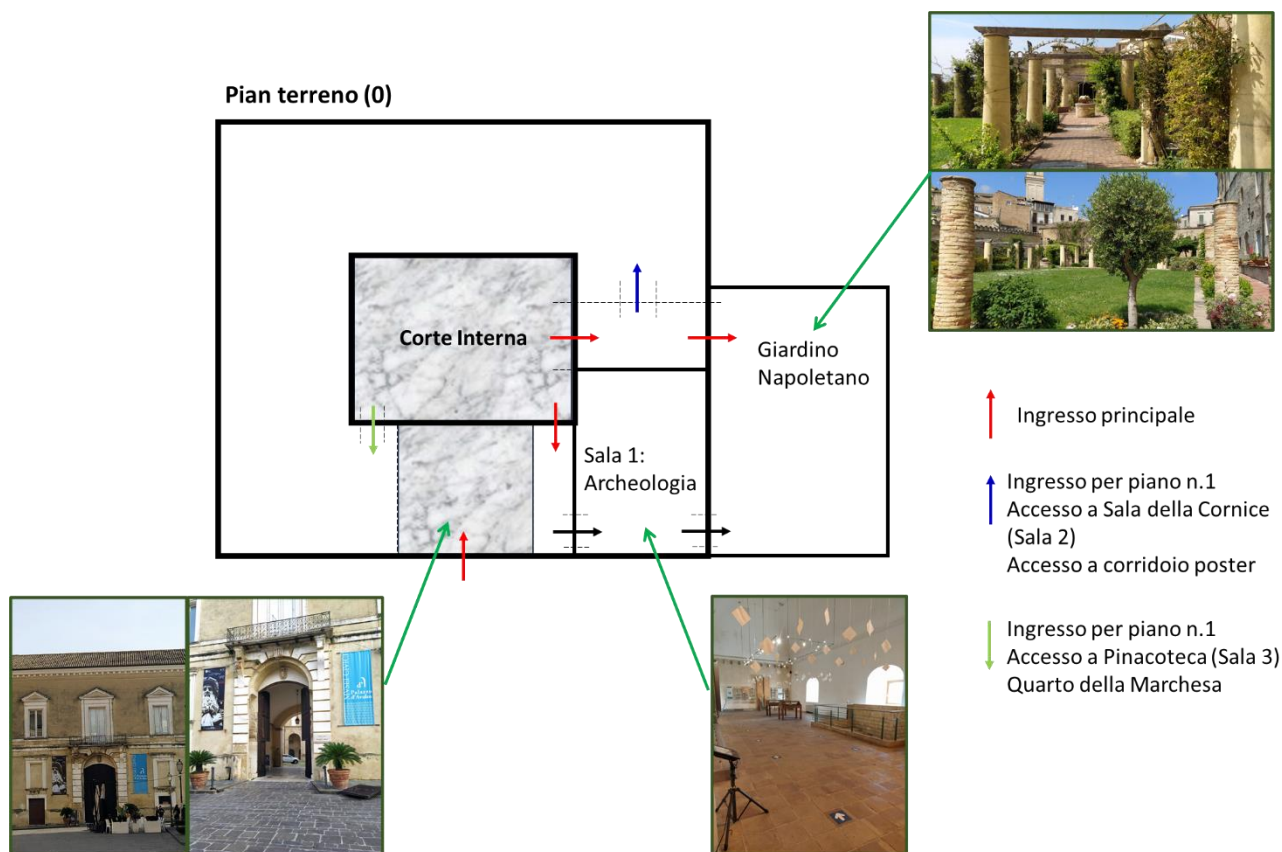
Dario Compagnone

Chair Analitica 2023

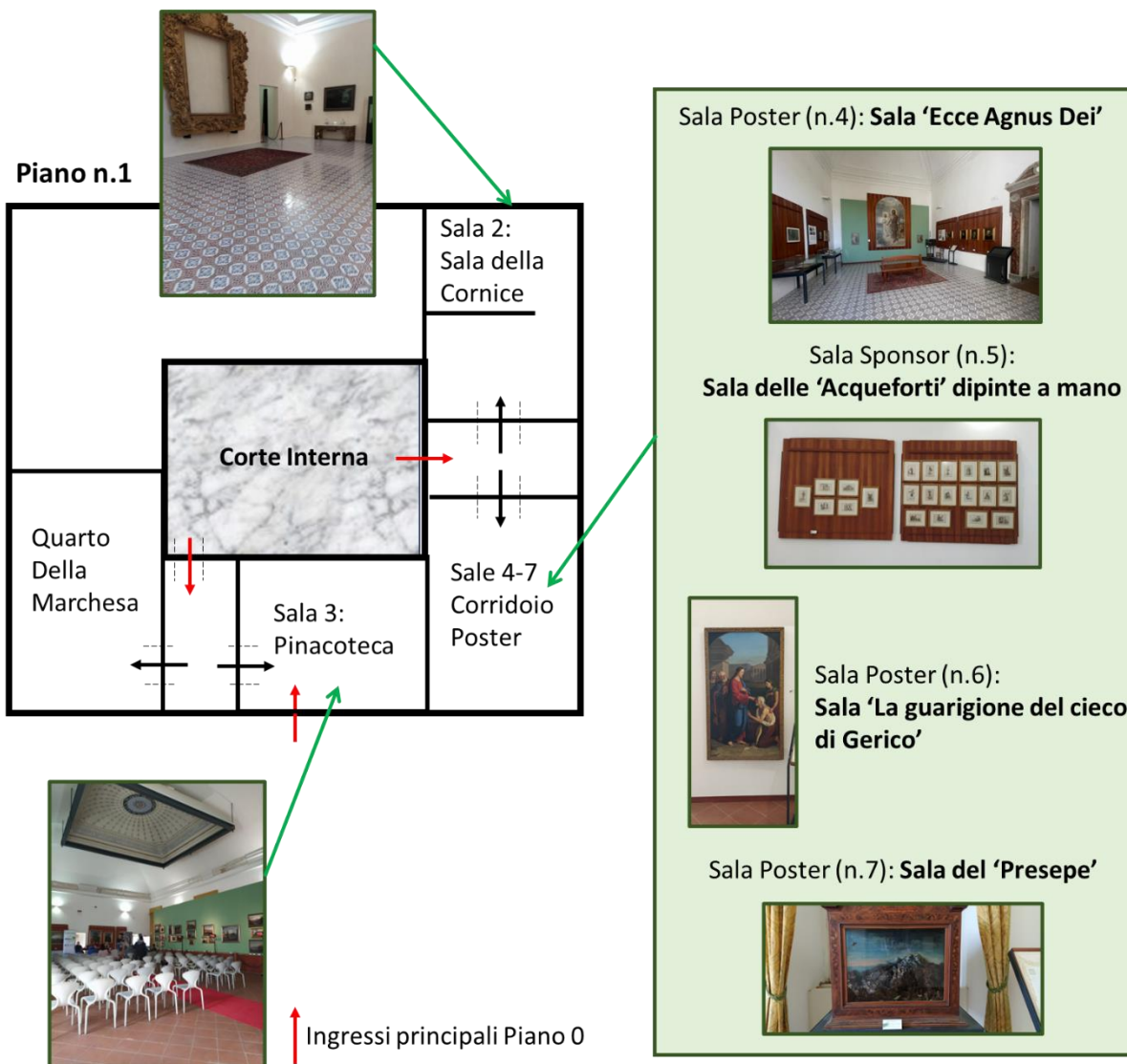
Palazzo D'Avalos

Affacciato sul mare e simbolo della città, Palazzo d'Avalos domina il paesaggio con la sua maestosità. È uno dei più significativi esempi di architettura rinascimentale abruzzese della seconda metà del Cinquecento. Sorto su preesistenze romane e altomedievali, ha inglobato i resti dell'edificio quattrocentesco costruito dai Caldora e devastato durante l'incursione delle armate turche nel 1566.

Pian terreno (0)



Piano 1



DOMENICA 17/09/2023

17.00-21.00 - Registrazione dei partecipanti

19.00 – 21.00 - Cocktail di benvenuto presso il Giardino Napoletano

LUNEDI' 18/09/2023

8.30 - REGISTRAZIONE

APERTURA DEL CONGRESSO

SALA: PINACOTECA

09.00 – 09.30 APERTURA DEL CONGRESSO

09.30 – 10.15- **PL1 - Homola Jiří (Institute of Photonics & Electronics, Czech Academy of Sciences).**

ADVANCES IN PLASMONIC AFFINITY BIOSENSORS FOR MEDICINE

10.15 – 10.35-Conferenza Vincitore del Premio Giovane Ricercatore GR1

10.40 – 11.10-COFFEE BREAK (Giardino Napoletano)

Sessione Parallela: Sensori-Biosensori (SB)-1

SALA: PINACOTECA

11.10 – 11.30 - **KN1-SB** - *COLORIMETRIC LABELS IN LATERAL FLOW IMMUNOASSAYS: CAN WE OVERCOME THE USE OF NOBLE METAL NANOPARTICLES?*

F. Di Nardo, S. Cavalera, L. Anfossi, C. Baggiani
Università degli Studi di Torino

11.30 – 11.45 - **O1-SB** - *DECORATED DNA-BASED SCAFFOLDS AS LATERAL FLOW BIOSENSORS*

S. Brannetti, S. Gentile, A. Chamorro-Garcia, L. Barbero, E. Del Grosso and F. Ricci
Università degli Studi di Roma Tor Vergata

11.45 – 12.00 - **O2-SB** - *ALL-IN-ONE PAPER-BASED MICROFLUIDIC DEVICE FOR PARACETAMOL ELECTROANALYSIS IN ENVIRONMENTAL MATRICES*

A. Miglione, A. Raucci, F. Cristiano, S. Cinti
Università Federico II di Napoli

12.00 – 12.15 – **O3-SB** - *A PAPER-BASED ELECTROCHEMICAL APTASENSOR FOR USER-FRIENDLY THROMBIN DETECTION IN BIOLOGICAL MATRICES*

A. Raucci, G. Sorrentino, A. Miglione, M. Terracciano, G. Oliviero, G. Piccialli, N. Borbone, S. Cinti
Università Federico II di Napoli

12.15 – 12.30 – **O4-SB** - *3D PAPER-BASED ELECTROANALYTICAL DEVICE FOR ALL-IN-ONE CARBARYL ANALYSIS*

S. Fiori, F. Della Pelle, A. Scroccarello, M. Del Carlo, D. Compagnone
Università degli Studi di Teramo

12.30 – 12.45 – **O5-SB** - *BUTTERFLY-LIKE PAPER-BASED MICROFLUIDIC POTENTIOMETRIC WEARABLE SENSOR FOR DEHYDRATION MONITORING DURING PHYSICAL ACTIVITY*

L. Fiore, V. Mazzaracchio, A. Antinucci, R. Ferrara, T. Sciarra, F. Lista, F. Arduini
Università degli Studi di Roma Tor Vergata

12.45 – 13.00 – **O6-SB** – *SUSTAINABLE EXTRACTION AND ANALYSIS OF ZINC IN SOIL BY COMBINING A 3D-PRINTED ANALYTICAL TOOL AND PAPER-BASED SCREEN-PRINTED SENSORS*

N. Colozza, D. Aquilani, A. Pizziconi, F. Arduini
Università degli Studi di Roma Tor Vergata

Sessione Parallela: Scienza-Separazioni (SP)-1

SALA: ARCHEOLOGIA

11.10 – 11.30 - **KN1-SP** - *VIEWS ON THE USES OF COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN FOOD ANALYSIS*

P.Q. Tranchida, M. Zoccali, A. Arena, M. Galletta, A. Ferracane, L. Mondello
Università degli Studi di Messina

11.30 – 11.45 - **O1-SP** - *CRYOGENIC MODULATION GC×GC-QqQMS FOR PESTICIDES DETERMINATION IN HEMP SEED OIL*

A. Arena, M. Zoccali, A. Ferracane, M. Obkircher, H. Sprecher, P.Q. Tranchida, L. Mondello
Università degli studi di Messina

11.45 – 12.00 - **O2-SP** - *UNTARGETED PROFILING AND TARGETED DETERMINATION OF CHIRAL LACTONES IN MARSALA WINES USING HEADSPACE SPME FLOW-MODULATED COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY (ENANTIO×POLAR) WITH TIME-OF-FLIGHT MASS SPECTROMETRY*

M. Galletta, M. Zoccali, P.Q. Tranchida, L. Mondello
Università degli Studi di Messina

12.00 – 12.15 – **O3-SP** - *VACUUM-ASSISTED HEADSPACE-SOLID PHASE MICROEXTRACTION FOR SHORT AND LONG CHAIN FATTY ACIDS IN BIOLOGICAL SAMPLES*

E. Porru, N. Interino, R. Comito, F.S. Violante, J. Fiori
Università degli Studi di Bologna

12.15 – 12.30 – **O4-SP** - *A POWERFUL AF4-MULTI DETECTION METHOD FOR CHARACTERIZATION, QUALITY CONTROL AND PURIFICATION OF SELF-ASSEMBLING PROTEINS FROM ENGINEERED E. coli LYSATES*

S. Giordani, T. Rossi, B. Roda, A. Zattoni, P. Reschiglian, A. Danielli, V. Marassi
Università degli Studi di Bologna

12.30 – 12.45 – **O5-SP** - *QUANTIFICATION OF HEALTH CLAIM-RELEVANT TYROSOL AND 3-HYDROXYTYROSOL IN EXTRA VIRGIN OLIVE OIL AFTER DIRECT HYDROLYSIS*

D. Corradini
CNR Istituto per i Sistemi Biologici

12.45 – 13.00 – **O6-SP** – *POTENTIALITY OF A MIXED-MODE STATIONARY PHASE TO ADDRESS CHALLENGING PEPTIDE PURIFICATION THROUGH PREP-LC*

C. De Luca, G. Lievore, S. Felletti, M. Catani, D. Bozza, M. Macis, A. Ricci, W. Cabri, A. Cavazzini
Università degli Studi di Ferrara

Sessione Parallela: Bioanalitica-omics (B)-1

SALA: SALA DELLA CORNICE

11.10 – 11.30 - **KN1-B** - *COMPREHENSIVE GCXGC HIGH RESOLUTION MS AND SELECTIVE ISOLATION OF CHEMICALS IN THE INVESTIGATION OF HUMAN CHEMOSIGNALS ELICITED FROM EMOTIONAL STIMULATION*

Bruderer, M. Ripszam, F. Vivaldi, A. Gargano, N. Gomes, A. L. Callara, D. Biagini, S. Ghimenti, T. Lomonaco, A. Greco, G. Semin, E. P. Scilingo, F. Di Francesco
Università degli Studi di Pisa

11.30 – 11.45 - **O1-B** - *FPSE-HPLC-PDA ANALYSIS OF ANTIDEPRESSANTS IN BIOLOGICAL MATRICES*

M. Locatelli, C. D'Ovidio, A.M. Catena, F. Savini, U. de Grazia, A. Kabir, L. Ciriolo, M. Perrucci
Università degli G. d'Annunzio Chieti-Pescara

11.45 – 12.00 - **O2-B** - *RESHAPING OF THE MITOCHONDRIAL PHOSPHOLIPIDOME UPON REMOVAL OF FUSION PROTEINS: AN INVESTIGATION BY HILIC-ESI-FTMS*

A. Castellaneta, I. Losito, V. Porcelli, S. Barile, A. Maresca, V. Del Dotto, V. Losacco, L.S. Guadalupi, C.D. Calvano, V. Carelli, L. Palmieri, T.R.I. Cataldi
Università degli Studi di Bari

12.00 – 12.15 – **O3-B** – *SUPER SILAC-BASED EPIPROTEOMIC AND LABEL-FREE QUANTITATIVE SWATH-MS ANALYSIS OF PANCREATIC CANCER STEM CELLS*

G.Siragusa, J.Brandi, E.Dalla Pozza, R.Noberini, T.Bonaldi, M.Manfredi, E.Marengo, I.Dando, D.Cecconi
Università degli Studi di Verona

12.15 – 12.30 – **O4-B** - *BREATH AND DRIED BLOOD SPOT ANALYSIS COMBINED WITH CARDIOPULMONARY EXERCISE TESTING AND ECHOCARDIOGRAPHY FOR MONITORING HEART FAILURE*

T. Lomonaco, N. R. Pugliese, S. Farnocchia, G. Bertazzo, F. De Angelis, S. Ghimenti, A. Lenzi, D. Biagini, S. Armenia, S. Taddei, S. Masi, F. Di Francesco
Università degli Studi di Pisa

12.30 – 12.45 – **O5-B** - *INVESTIGATION OF ACYLCARNITINE BIOMARKERS IN PROSTATE CANCER TISSUE BY HIGH-RESOLUTION MASS-SPECTROMETRY AND RETENTION TIME PREDICTION*

A. Cerrato, A. Biancolillo, A. Laganà, A. Sciarra, E. Taglioni, A. L. Capriotti
Università degli Studi di Roma La Sapienza

12.45 – 13.00 – **O6-B** – *ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY FOR SENSITIVE DETECTION OF FOOD ALLERGENS IN COMPLEX, PROCESSED AND NOVEL FOODSTUFFS*

C.D. Calvano, M. Bianco, G. Ventura, I. Losito, T.R.I. Cataldi
Università degli Studi di Bari Aldo Moro

13.00 – 14.00 - Lunch (libero)

14.00 – 15.00 – Sessione poster: Bioanalitica-Omics (P1-7); Forense, Tossicologia e Salute (P1-10); Scienza delle Separazioni (P1-13); Sensori e Biosensori-1 (P1-13); Elettroanalitica (P1-7).

Sessione Parallela: Sensori-Biosensori (SB)-2

SALA: PINACOTECA

15.00 – 15.20 – **KN2-SB** – *MOLECULAR IMPRINTING AND SENSING TECHNOLOGY: A HAPPY MARRIAGE BASED ON ESTABLISHED AND INNOVATIVE STRATEGIES*

E. Mazzotta, T. Di Giulio, C. Malitesta
Università del Salento

15.20 – 15.35 – **O7-SB** – *MOLECULARLY IMPRINTED NANOGELS IN OPTICAL SENSING*

A.M. Bossi
Università degli Studi di Verona

15.35 – 15.50 – **O8-SB** - *BIO-INSPIRED POLYMERS FROM ENDOGENOUS NEUROTRANSMITTERS: TOWARDS UNIVERSAL PROTEIN IMPRINTING?*

S. Scarano, F. Battaglia, F. Torrini, G. Ciacci, A. Barucci P. Palladino, M. Minunni
Università degli Studi di Firenze

15.50 – 16.05 – **O9-SB** – *ECO-FRIENDLY PREPARED MOLECULARLY IMPRINTED POLYMERIC NANOPARTICLES IN SENSOR DESIGN FOR THE ELECTROCHEMICAL DETERMINATION OF AMOXICILLIN*

S. Di Masi, C. Malitesta
Università degli Studi del Salento

16.05 – 16.20 – **O10-SB** – *A GUANOSINE-DERIVED SUPRAMOLECULAR HYDROGEL WITH PEROXIDASE-LIKE ACTIVITY AS A NEW TOOL FOR HYDROGEN PEROXIDE DETECTION*

D. Calabria, S. Pieraccini, E. Lazzarini, A. Pace, I. Trozzi, M. Guardigli, S. Masiero, M. Mirasoli
Università degli Studi di Bologna

16.20 – 16.35 – **O11-SB** – *A VERSATILE APPROACH FOR ACHIEVING METAL ION MEDIATED INTERACTIONS ON POROUS SILICON INTERFEROMETERS*

T. Di Giulio, F. Gagliani, C. Malitesta, M. Corsi, G. Barillaro, E. Mazzotta
Università degli Studi del Salento

16.35 – 17.00-COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O12-SB** – *A NANO-PLASMONIC BIOSENSOR FOR FAST AND HIGHLY SENSITIVE DETECTION OF NANOPLASTICS*

M. Seggio, F. Arcadio, L. Zeni, N. Cennamo, A. M. Bossi
Università degli Studi di Verona

17.15 – 17.30 – **O13-SB** – *BIO-INSPIRED POLYMERS FROM ENDOGENOUS NEUROTRANSMITTERS: TOWARDS UNIVERSAL PROTEIN IMPRINTING?*

S. Scarano, F. Battaglia, F. Torrini, G. Ciacci, A. Barucci P. Palladino, M. Minunni
Università degli Studi di Firenze

17.30 – 17.45 – **O14-SB** – *COMBINING NEW LUCIFERASE MUTANTS WITH METAL-ORGANIC-FRAMEWORKS TO DEVELOP NEW BIOSENSING TOOLS*

D. Gregucci, M.M. Calabretta, E. Michellini

Università degli Studi di Bologna

17.45 – 18.00 – **O15-SB** – *A DISPOSABLE IMMUNOSENSOR FOR DETECTION OF SALIVARY MMP-8 AS BIOMARKER OF PERIODONTITIS*

C. Tortolini, V. Gigli, A. Angeloni, T. K.T. Nguyen, R. Antiochia
Università degli Studi di Roma La Sapienza

Sessione Parallela: Forense, Tossicologia-Salute (FT)

SALA: ARCHEOLOGIA

15.00 – 15.20 – **KN1-FT** – *ADVANCED ANALYTICAL STRATEGIES FOR DETECTION OF FORENSIC RELEVANT COMPOUNDS*

A. Lombardozi, S. Napoletano, M. D'Elia, G. Di Francesco, F. Ciocchetti, M. Croce, F. Vincenti, C. Montesano, M. Sergi, F. Marini, R. Curini
Ministry of Interior – Department for Public Security Central Anticrime Directorate of the Italian State Police– Forensic Science Police Service (DAC-SPS), Rome

15.20 – 15.35 – **O1- FT** – *MULTIVARIATE MODELLING IN HAIR TESTING – MODELLING THE HAIR COLOR BIAS AGAINST DISCRIMINATION*

M. Vincenti, M. Piras, N. Castellino, A. Salomone, E. Alladio
Università degli Studi di Torino

15.35 – 15.50 – **O2- FT** – *METHOD FOR DIRECT ENANTIOMER DETERMINATION OF METHORPHAN IN SEIZED DRUGS AND BIOLOGICAL SPECIMENS BY MEANS OF CHIRAL HPLC-MS/MS*

C. Coppolino, T. M. G. Salerno, G. Frison, L. Zamengo, P. Donato, L. Mondello
Università degli Studi di Messina

15.50 – 16.05 – **O3- FT** – *STUDY OF METABOLOMIC PROFILE ALTERATIONS INDUCED BY OPIOIDS IN MURINE MODELS BY UHPLC-HRMS*

G. Di Francesco, M. Croce, F. Vincenti, C. Montesano, M. Marti, M. Sergi, R. Curini
Università degli Studi di Roma La Sapienza

16.05 – 16.20 – **O4- FT** – *DEVELOPMENT OF A NEW LIQUID PHASE MICROEXTRACTION METHOD FOR THE DETERMINATION OF SEVERAL ILLICIT DRUGS AND NPS IN ORAL FLUID BY HPLC-MS/MS ANALYSIS*

M. Croce, G. Di Francesco, F. Marini, F. Vincenti, C. Montesano, M. Sergi, R. Curini
Università degli Studi di Roma La Sapienza

16.20 – 16.35 – **O5- FT** – *COMPARATIVE SPECTROSCOPY STUDIES OF KNOWN VERSUS NEW SYNTHETIC CANNABINOID FAMILIES*

V. Greco, A. B. Carbonaro, V. Buccilli, P. Maida and A. Giuffrida
Università degli Studi di Catania

16.35 – 17.00-COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O6- FT** – *ORIGAMI PAPER-BASED DEVICE AS AN INEXPENSIVE TOOL FOR IDENTIFYING URINE ADULTERATION IN A FORENSIC TOXICOLOGY CONTEXT*

G. Musile, Y. Agard, S. Pesavento, F. Bortolotti, F. Tagliaro
Università degli Studi di Verona

17.15 – 17.30 – **O7- FT** – *VIRGIN AND PHOTODEGRADED MICROPLASTICS IMPACT THE INFLAMMATORY RESPONSE OF VASCULAR MUSCLE CELLS*

T. Lomonaco, E. Persiani, I. Gisone, E. Ceccherini, A. Cecchettini, A. Corti, D. Biagini, S. Ghimenti, F. Di Francesco, V. Castelvetro, F. Vozzi
Università di Pisa

17.30 – 17.45 – **O8- FT** – *HEPATIC CONCENTRATIONS OF RARE EARTH ELEMENTS IN DOMESTIC DOGS AND APENNINE WOLVES FROM CENTRAL ITALY*

M. Bellocchi, S.V.P Defourny, C. Merola, R. Salini, V. Melai, G. Romeo, L. Lomellini, A. Cocco, G. Scortichini, A. Petri

Università degli Studi di Teramo; Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale"

Sessione Parallela: Bioanalitica-omics-2

SALA: SALA DELLA CORNICE

15.00 – 15.20 – **KN2-B** – *SIMILAR BUT NOT IDENTICAL: THE HUNT FOR BINDING COOPERATIVITY IN ARTIFICIAL ANTIBODIES*

L. Anfossi, C. Baggiani, S. Cavalera, F. Di Nardo
Università degli Studi di Torino

15.20 – 15.35 – **O7-B** – *ELUCIDATION OF ZWITTERIONIC AND POSITIVELY CHARGED METABOLITES IN PROSTATE CANCER BY DEDICATED UNTARGETED METABOLOMICS*

A. Cerrato, A. Laganà, S. Piovesana, R. Tauler, A.L. Capriotti
Università degli Studi di Roma La Sapienza

15.35 – 15.50 – **O8-B** – *THERMAL STAMPING OF LASER-REDUCED GRAPHENE OXIDE FOR DIRECT ELECTRON TRANSFER-TYPE BIOSENSORS*

D. Paolini, F. Della Pelle, F. Silveri, P. Bollella, A. Scroccarello, L. Torsi, D. Compagnone
Università degli Studi di Teramo

15.50 – 16.05 – **O9-B** – *MONITORING OF THE IMMUNE RESPONSE TO SARS-COV-2 AFTER VACCINATION AND RECOVERY BY LATERAL FLOW IMMUNOASSAY*

S. Cavalera, B. Colitti, C. Nogarol, C. Guiotto, D. Cosseddu, T. Serra, V. Testa, F. Di Nardo, C. Baggiani, S. Rosati, L. Anfossi
Università degli Studi di Torino

16.05 – 16.20 – **O10-B** – *A MULTI-OMICS INVESTIGATION ON BIOLUMINESCENCE IN DEEP SEA FISHES*

N. Interino, E. Esposito, C. Corinaldesi, A. Fumanti, E. Buschi, M. Tangherlini, E. Rastelli, A. Sagrati, G. Palladino, A. Dell'Anno, S. Rampelli, D. Scicchitano, P. Battaglia, R. Danovaro, M. Candela, J. Fiori
Università degli Studi di Bologna

16.20 – 16.35 – **O11-B** – *KELVIN PROBE FORCE MICROSCOPY: A QUANTITATIVE, LABEL-FREE AND HIGHLY SENSITIVE TOOL FOR ANTIGEN/ANTIBODY RECOGNITION PROCESS*

N. Interino, E. Esposito, C. Corinaldesi, A. Fumanti, E. Buschi, M. Tangherlini, E. Rastelli, A. Sagrati, G. Palladino, A. Dell'Anno, S. Rampelli, D. Scicchitano, P. Battaglia, R. Danovaro, M. Candela, J. Fiori
Università degli Studi di Bologna

16.35 – 17.00-COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O12-B** – *SELECTOR, AN INNOVATIVE INSTRUMENTATION FOR LABEL-FREE SORTING AND QUALITY CONTROL OF LIVING CELLS FOR IMPROVED THERAPY MEDICINAL PRODUCTS*

B. Roda, S. Zia, F. Alviano, L. Bonsi, A. Zattoni, P. Reschiglian
Università degli Studi di Bologna

17.15 – 17.30 – **O13-B** – *FFF MULTIDETECTION FOR SIZE-RESOLVED MEASUREMENTS OF DRUG RELEASE FROM PROTEIN-CONJUGATED GOLD NANOPARTICLES*

J. Wang, S. Giordani, V. Marassi, B. Roda, P. Reschiglian, A. Zattoni

Università degli Studi di Bologna

17.30 – 17.45 – **O14-B** – *CRISPR-CAS-ASSISTED AMPLIFICATION FOR IMPROVED MMP2
PROTEASE DETECTION VIA PEPTIDE-PNA TRANSLATOR*

L. Capelli, F. Pedrini, A. Di Pede, S. Fortunati, M. Mattarozzi, R. Corradini, A. Porchetta, A.
Bertucci

Università degli Studi di Parma

18.30 – ASSEMBLEA (SALA: PINACOTECA)

MARTEDI' 19/09/2023

Sessione Parallela: Scienza-Separazioni-2

SALA: PINACOTECA

09.00 – 09.45 - PL2 - Gert Desmet (Vrije Universiteit Brussel).

CURRENT STATE-OF-THE-ART IN COLUMN TECHNOLOGY FOR LIQUID CHROMATOGRAPHY

09.55 – 10.15 - **KN2-SP** - *MINIATURIZING SAMPLE PROCESSING: OPPORTUNITIES, CHALLENGES, AND ADVANCES*

C. Crescenzi, G. Grasso, M. Iannaccone, O. Perugini
Università degli Studi di Salerno

10.15 – 10.30 - **O7-SP** - *PIPETTE-TIP μ SPE ON CARBON NANOMATERIAL FROM RICE HUSK ASH FOR DETERMINATION OF RESIDUAL FLUOROQUINOLONES IN URINE*

P. Bianchini, F. Maraschi, F. Merlo, A. Speltini and A. Profumo
Università degli Studi di Pavia

10.30 – 10.45 – **O8-SP** – *INVESTIGATION ON γ -CYCLODEXTRIN-BASED NANOMATERIALS AS SOLID-PHASE MICROEXTRACTION COATING FOR EFFICIENT EXTRACTION OF HIGH-MOLECULAR WEIGHT POLYCYCLIC AROMATIC HYDROCARBONS FROM ENVIRONMENTAL SAMPLES*

N. Riboni, F. Bianchi, M. Scaccaglia, F. Bisceglie, A. Secchi, C. Massera, P. Luches, M. Careri
Università degli Studi di Parma

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 – **O9-SP** - *INNOVATIVE THERMALLY ASSISTED ON-LINE SOLID PHASE EXTRACTION-REVERSED PHASE LIQUID CHROMATOGRAPHY APPLIED TO TARGETED NUTRIMETABOLOMICS IN HUMAN BIOFLUIDS*

L. Renaj, L. Marzullo, G. Bonaccorso, S. Orlandini, M.C. Bruzzoniti, M. Del Bubba
Università degli Studi di Firenze

11.30 – 11.45 – **O10-SP** - *A NEW HYDROGEL MATERIAL FOR THE ENRICHMENT OF N-LINKED GLYCOPEPTIDES*

C. M. Montone, C. Cavaliere, A. Cerrato, S. Piovesana
Università degli Studi di Roma La Sapienza

11.45 – 12.00 – **O11-SP** - *EVALUATION OF THE IMPACT OF PARTICLE GEOMETRY ON THE KINETIC PERFORMANCE OF ZWITTERIONIC TEICOPLANIN-BASED CHIRAL STATIONARY PHASES*

S. Felletti, C. De Luca, G. Mazzocanti, F. Gasparini, M. Catani, A. Cavazzini
Università degli Studi di Ferrara

12.00 – 12.15 – **O12-SP** – *FFF-BASED MONITORING OF SURFACE AND STABILITY EVOLUTION OF AIRBORN SUBMICROPLASTICS FOLLOWING ACTIVE TRANSPORT TO BEEHIVES*

V. Marassi, L. Faccani, P. Marrazzo, B. Roda, A. Zattoni, S. Giordani, A. Zappi, I. Zanoni, A.L. Costa, P. Reschiglian
Università degli Studi di Bologna

12.15 – 12.30 – **O13-SP** - *IDENTIFICATION OF THE TIANEPTINE TRANSFORMATION PRODUCTS IN RIVER WATER BY UHPLC-MS/MS*

E. Cruz, V. Termopoli, V. Consonni, M. Orlandi, F. Gosetti
Università degli Studi di Milano Bicocca

12.30 – 12.45 – **O14-SP** – *IN-DEPTH LC-HRMS ANALYSIS OF THE EFFECTS OF CHLORINE-BASE DRINKING WATER TREATMENTS ON TOXINS PRODUCED BY CYANOBACTERIA*

A. Miglione, L. Tartaglione, M. Varra, C. Dell'Aversano, M. Simonazzi, L. Pezzolesi, F. Guerrini, R. Pistocchi, G. Graziani, I. Vasumini, A. Pandolfi
Università Federico II di Napoli

12.45 – 13.00 – **O15-SP** – *RAPID ANTIMONY SPECIATION ANALYSIS IN NATURAL WATERS VIA FRONTAL CHROMATOGRAPHY-ICP-MS*

D. Spanu, D. Monticelli, S. Recchia
Università degli Studi dell'Insubria

Sessione Parallela: Ambienti e Beni Culturali-1

SALA: SALA DELLA CORNICE

09.55 – 10.15 – **KN1-ABC** - *NON-EXHAUST EMISSION FROM ROAD TRAFFIC: CONTRIBUTION FROM FRICTION MATERIALS USED IN BRAKE PADS*

R. Santalucia, R. Depetris, G. Drago, A. Sin, F. Pellegrino, V. Maurino
Università degli Studi di Torino

10.15 – 10.30 – **O1-ABC** - *MICROWAVE-ASSISTED PRETREATMENT AND Py-GC-MS TO STUDY MICROPLASTICS AND CORRELATED POLLUTANTS*

G. Biale, J. La Nasa, L. Fiorentini, S. Giannarelli, A. Ceccarini, D. Carnaroglio, M. Mattonai, F. Modugno
Università degli Studi di Pisa

10.30 – 10.45 – **O2-ABC** – *CHARACTERIZATION OF ORGANIC MATTER IN SOIL WITH BIOPLASTICS AND QUANTIFICATION OF AGED BIOPLASTICS BY PY-GC-MS AND EGA-MS*

A.G. Rombolà, C. Torri, I. Coralli, A. Facchin, D. Fabbri
Università degli Studi di Bologna

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 – **O3-ABC**- *ANALYTICAL APPROACHES FOR THE DETERMINATION OF THE CONCENTRATION OF AIR POLLUTANTS IN MUSEUM ENVIRONMENTS*

M. Ricciardi, G. Fiocco, D. Sofia, M. Malagodi, O. Motta, A. Proto
Università degli Studi di Salerno

11.30 – 11.45 – **O4-ABC** - *OPTIMIZATION OF EXTRACTION AND CHARACTERISATION OF ORGANIC RESIDUES IN POTSDHERDS FROM “CANTIERE DELLE NAVI ANTICHE DI PISA”*

F. Nardella, A. Giannaccini, M. Mattonai, J. La Nasa, G. Pace, A. Camilli, E. Ribechini
Università degli Studi di Pisa

11.45 – 12.00 – **O5-ABC** - *DISCLOSING THE CHEMISTRY OF STREET ART BY COMBINING FTIR SPECTROSCOPY AND MASS SPECTROMETRY*

E. C. L. Rigante, F. Modugno, C. D. Calvano, T. R. I. Cataldi
Università degli Studi di Bari Aldo Moro

12.00 – 12.15 – **O6-ABC** – *CHEMICAL CHARACTERIZATION OF FLINT ARCHAEOLOGICAL FINDS*

C. Chiurlia, T. Forleo, L. C. Giannossa, A. Mangone
Università degli Studi di Bari Aldo Moro

12.15 – 12.30 – **O7-ABC** - *A MULTI-ANALYTICAL APPROACH FOR THE DETERMINATION OF THE FINENESS OF 12TH-13TH CENTURY EMILIA-ROMAGNA DENARII*

G. Marussi, M. Crosera, S. Licen, S. Fornasaro, G. Carraro, B. Callegher, G. Adami
Università degli Studi di Trieste

12.30 – 12.45 – **O8-ABC** – *GEL-SUPPORTED LIQUID EXTRACTION: BUILDING A BRIDGE BETWEEN NON-INVASIVE AND LABORATORY ANALYSES FOR THE IDENTIFICATION OF DYES*

A. Bosi, A. Ciccola, I. Serafini, F. Vincenti, G. Peruzzi, V. Nigro, P. Postorino, C. Montesano,
M. Sergi, R. Curini, G. Favero
Università degli Studi di Roma La Sapienza

12.45 – 13.00 – **O9-ABC** – *VIS-NIR HYPERSPECTRAL METHODS AND PHOTOLUMINESCENCE
MA-IMAGING SYSTEMS FOR THE ASSESSMENT AND STUDY OF THE PERFORMANCE OF
NEW CLEANING SYSTEMS FOR PAINTINGS*

S. Prati, F. Ramacciotti, L. Cazals, M. Thoury, L. Bertrand, E. Catelli, G. Sciutto, R. Mazzeo
Università degli Studi di Bologna

Sessione Parallela: Green Chemistry

SALA: ARCHEOLOGIA

09.55 – 10.15 – **KN1-GC** - *THE ROLE OF ANALYTICAL CHEMISTRY IN FACING THE CHALLENGES OF BIODEGRADABLE PLASTICS*

M. Mattonai, N. Pecorelli, A. Bevilacqua, F. Marchelli, R. Ferrentino, J. La Nasa, G. Andreottola, L. Fiori, E. Ribechini
Università degli Studi di Pisa

10.15 – 10.30 – **O1-GC** - *A NEW POSSIBLE APPLICATION OF KARKADE' EXTRACT USING RAPID SOLID-LIQUID EXTRACTION (RSLDE)*

V. Nebbioso, D. Naviglio, M. Gallo, E. Di Maio, P. Trucillo
Università degli Studi di Napoli Federico II

10.30 – 10.45 – **O2-GC** – *RETENTION PROPERTIES OF A POROUS GRAPHITIC CARBON COLUMN AS STATIONARY PHASE IN SUPERCRITICAL FLUID CHROMATOGRAPHY*

P. Donato, F. Rigano, R. La Tella, P. Dugo, L. Mondello
Università degli Studi di Messina

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 – **O3-GC**- *A GREEN EXTRACTION METHOD BASED ON CARBON NITRIDE SORBENT FOR THE SIMULTANEOUS DETERMINATION OF FREE AND CONJUGATED ESTROGENS IN MILK*

E. Taglioni, C. Cavaliere, A. Laganà, C.M. Montone, A.L. Capriotti
Università degli Studi di Roma La Sapienza

11.30 – 11.45 – **O4-GC** - *A BIOACTIVE CHITOSAN-BASED PACKAGING FOR FOOD PRESERVATION*

R. Costa, R. De Pasquale, E. Di Salvo, L. De Maria, R. Vadalà, N. Cicero
Università degli Studi di Messina

11.45 – 12.00 – **O5-GC** - *GRAPHENE OXIDE AND CARBON NANOTUBES NANOCOMPOSITE, BASED ON RECYCLED POLYLACTIC ACID, FOR THE MAGNETIC SOLID PHASE EXTRACTION OF XENOBIOTICS FROM URINE*

L. Antonelli, E. Lucci, R. De Santo, M. Chiara Frondaroli, C. Dal Bosco, A. Gentili
Università degli Studi di Roma La Sapienza

12.00 – 12.15 – **O6-GC** – *EVALUATION OF TRACE ODOUR COMPONENTS BY MEANS OF A NOVEL 3D GC SYSTEM COUPLED TO OLPHACTOMETRIC, FID AND MS DETECTION*

D. Sciarorne, L. Cucinotta, G. De Grazia, L. Mondello
Università degli Studi di Messina

12.15 – 12.30 – **O7-GC** - *EXPANDING CIRCULARITY OF PLASTIC AND BIOCHAR MATERIALS BY DEVELOPING ALTERNATIVE LOW ENVIRONMENTAL FOOTPRINT SENSORS*

R. Cancelliere, Elisa Paialunga, Laura Micheli
Università degli Studi di Roma Tor Vergata

12.30 – 12.45 – **O8-GC** - *CONTINUOUS PHOTOCATALYTIC SYSTEM FOR WATER REMEDIATION: A LAB-SCALE PROTOTYPE*

C. Stevanin, M. Cescon, T. Chenet, E. Sarti, V. Costa, V. Cristino, S. Caramori, L. Pasti
Università degli Studi di Ferrara

13.00 – 14.00 - Lunch (libero)

14.00 – 15.00 – Sessione poster: Alimenti (P1-16); Ambiente e Beni Culturali-1 (P1-13); Equilibri (P1-6); Green-Chemistry (P1-3); Spettrometria di Massa (P1-12).

15.00 – 16.00 – ASSEMBLEE DIVISIONALI ED INTERDIVISIONALI

ARCHEOLOGIA	PINACOTECA	SALA DELLA CORNICE
Chemometria	Bioanalitica	Spettroscopia analitica
Chimica Forense	Sensori	Green Chemistry

16.15 – GITA SOCIALE.

Punto di ritrovo: Ingresso Palazzo D'Avalos

- Visita guidata della città
- Visita presso la Riserva Naturale Regionale Punta Aderci la quale verrà raggiunta in pullman.

19.30 –NAVETTE CIRCOLARI PER CENA TIPICA

21.00 – CENA TIPICA PRESSO HOTEL PERROZZI

MERCOLEDI' 20/09/2023

Sessione Parallela: Chemiometria

SALA: PINACOTECA

09.00 – 09.45- PL3 - Jean-Michel Roger (UMR ITAP INRAE).

APPLICATIONS OF NIR SPECTROSCOPY COUPLED WITH CHEMOMETRICS ON ENVIRONMENTAL AND AGRICULTURAL ISSUES.

09.55 – 10.15 - **KN1-CH** – *OPTIMIZATION OF TARGETED AND UNTARGETED METHODS USING EXPERIMENTAL DESIGN PROCEDURES: ENVIRONMENTAL AND FOOD CASE STUDIES*

C. Durante, M. Battisti, B. Benedetti, M. Cocchi, S. Pellacani
Università di Modena e Reggio Emilia

10.15 – 10.30 - **O1-CH** – *SINGLE-MOLECULE BIOELECTRONIC SENSOR: IMPROVING RELIABILITY WITH CHEMOMETRIC APPROACHES*

M. Caputo, L. Sarcina, C. Scandurra, K. Björkström, C. Di Franco, G. Frusconi, L. Haeberle, R. Österbacka, G. Scamarcio, L. Torsi, E. Macchia
Università degli Studi di Bari Aldo Moro

10.30 – 10.45 – **O2-CH** – *DATA GEOMETRY TO SOLVE CLUSTERING AND UNMIXING ISSUES*

A. Olarini, M. Cocchi, L. Duponchel, C. Ruckebusch
Università di Modena e Reggio Emilia / Université de Lille

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 - **O3-CH** – *A SURVEY OF DATA FUSION STRATEGIES WITH FOCUS ON ANALYTICAL APPLICATIONS*

F. Marini
Università degli Studi di Roma La Sapienza

11.30 – 11.45 - **O4-CH** – *DEVELOPMENT AND OPTIMIZATION OF UPLC-HRMS METHOD FOR METABOLOMIC CHARACTERIZATION OF MOUNTAIN DENOMINATION FOOD USING EXPERIMENTAL DESIGNS*

S. Pellacani, L. Strani, M. Cocchi, M. Battisti, C. Durante
Università di Modena e Reggio Emilia

11.45 – 12.00 - **O5-CH** – *FUSION OF DIFFERENT SPECTRAL FEATURES TO EXPLORE THE DISTINCTIVE SIGNATURES OF MOUNTAIN FOOD PRODUCTS*

L. Strani, C. Durante, S. Pellacani, J. A. Pierna, S. Michelini, V. Pizzamiglio, M. Cocchi
Università di Modena e Reggio Emilia

12.00 – 12.15 – **O6-CH** – *MULTIBLOCK METHODOLOGIES APPLIED TO MULTIOMICS DATASETS WITH CLINICAL AND DIAGNOSTIC OBJECTIVES*

V. Caponigro, S. Mires, F. Marini, E. Sommella, F. Merciai, E. Salviati, M. Basilicata, P. Campiglia, T. Dong, K.A. Eastwood, M. Caputo
Università degli Studi di Salerno

12.15 – 12.30 – **O7-CH** – *A MULTI-OMIC APPROACH COUPLED TO CHEMOMETRICS TO IDENTIFY ILLICIT STORAGE TREATMENT IN FRESH FISH*

E. Robotti, M.H. Belay, E. Barberis, M. Manfredi, A. Benedetto, P. Brizio, M. Pezzolato, M.C. Abete, E. Marengo
Università degli Studi del Piemonte Orientale

12.30 – 12.45 – **O8-CH** – *CHEMOMETRIC ANALYSIS FOR TRACEABILITY OF HIGH-VALUE ITALIAN RICE CULTIVARS: A MULTI-PLATFORM APPROACH*

M. Foschi, A. Biancolillo, C. Scappaticci, A.A. D'Archivio
Università degli Studi di L'Aquila

12.45 – 13.00 – **O9-CH** - *STUDY OF THE SOURCES OF VARIANCE IN MINIATURIZED NIR SPECTROSCOPY THROUGH ANOVA-SIMULTANEOUS COMPONENT ANALYSIS (ASCA)*

B. Giussani, C. Alamprese, S. Grassi, R. Boqué, J. Riu, G. Gorla
Università degli Studi dell'Insubria

Sessione Parallela: Sensori e Biosensori-3

SALA: ARCHEOLOGIA

09.55 – 10.15 – **KN3-SB** – *ANALYTICAL APPLICATIONS OF THE SINGLE-MOLECULE WITH A LARGE-TRANSISTOR (SiMoT) TECHNOLOGY*

E. Macchia, L. Sarcina, C. Scandurra, M. Caputo, M. Catacchio, C. Di Franco, A. Tricase, P. Bollella, G. Scamarcio, F. Torricelli, L. Torsi
Università degli Studi di Bari Aldo Moro

10.15 – 10.30 - **O16-SB** – *HIGH-PERFORMANCE SENSING APPLICATION WITH A STABLE PHYSISORBED ANTIBODIES LAYER*

C. Scandurra, L. Sarcina, C. Di Franco, M. Caputo, M. Catacchio, P. Bollella, G. Scamarcio, E. Macchia, L. Torsi
Università degli Studi di Bari Aldo Moro

10.30 – 10.45 – **O17-SB** – *MOLECULAR IMPRITED POLYMERS FOR TRACE ANALYSES OF FOOD CONTAMINANTS*

A. Tricase, M. Valentino, E. Macchia, N. Ditaranto, L. Torsi, P. Bollella
Università degli Studi di Bari Aldo Moro

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 - **O18-SB** – *SYNTHETIC DNA STRANDS CONJUGATED WITH ANTIGENS AND ENZYMES FOR ULTRASENSITIVE ELECTROCHEMICAL ANTIBODIES DETECTION*

A. Díaz-Fernández, S. Ranallo, F. Ricci
Università degli Studi di Roma Tor Vergata

11.30 – 11.45 - **O19-SB** – *DYNAMIC AND REVERSIBLE DECORATION OF DNA-BASED SCAFFOLDS*

N. Farag, E. Del Grosso, F. Ricci
Università degli Studi di Roma Tor Vergata

11.45 – 12.00 – **O20-SB** – *ELECTROCHEMICAL DETECTION OF DNA THROUGH A VERSATILE MICROFLUIDIC PLATFORM*

P. S. Sfragano, M. Buchinger, S. Laschi, I. Palchetti
Università degli Studi di Firenze

12.00 – 12.15 – **O21-SB** – *PAM-ENGINEERED TOEHOLD SWITCH DNA AS ACTIVATORS OF CRISPR-CAS12A FOR SENSING APPLICATIONS*

N. Bagheri, A. Idili, A. Porchetta
Università degli Studi di Roma Tor Vergata

12.15 – 12.30 – **O22-SB** – *ELECTROCHEMICAL APTASENSOR BASED ON LASER-INDUCED GRAPHENE ELECTRODES FOR Escherichia coli DETECTION*

F. Vivaldi, L. Sembranti, A. Bonini, N. Poma, A. Carota, D. Biagini, A. Dallinger, F. Greco, A. Tavanti, F. Di Francesco
Università degli Studi di Pisa

12.30 – 12.45 – **O23-SB** – *ENTROPY DRIVEN CELL-FREE TRANSCRIPTION SENSORS*

A. Urošević, A. Idili, F. Ricci
Università degli Studi di Roma Tor Vergata

12.45 – 13.00 – **O24-SB** - *PAVING THE WAY TOWARD FRESH-CUT FOODS FRESHNESS SENSING BY BIOPLASTIC-BASED OPTODES*

M. Guembe-Garcia, L.R. Magnaghi, A. Capucciati, G. Alberti, P. Quadrelli, R. Biesuz
Università degli Studi di Pavia

Sessione Parallela: Ambiente e Beni Culturali-2

SALA: SALA DELLA CORNICE

09.55 – 10.15 – **KN2-ABC** – *DATA FUSION BASED ON SELF-ORGANIZING MAP ALGORITHM FOR CONTEXTUALIZING ENVIRONMENTAL SAMPLING*

S. Licen, V. Bandelj, A. Bressan, S. Fornasaro, E. Greco, A.S. Gaetano, G. Adami, P. Barbieri
Università degli Studi di Trieste

10.15 – 10.30 - **O11-ABC** – *INCREASING THE ACCURACY AND THE REPRODUCIBILITY OF THE PROCESSING METHOD FOR POLAR ORGANIC CHEMICAL INTEGRATIVE SAMPLERS*

M. Baglietto, H. MacKeown, B. Benedetti, B. Cossu, C. Scapuzzi, M. Di Carro, E. Magi
Università degli Studi di Genova

10.30 – 10.45 – **O12-ABC** – *CHLORINATED AND BROMINATED PERSISTENT POLLUTANTS IN SEA TURTLES OF ADRIATIC AREA: A MULTI-RESIDUAL APPROACH*

S. D'Antonio, R. Ceci, A. De Benedictis, G. Di Bernardo, F. Di Giacinto, L. Di Renzo, M. Leva, G. Mariani, G. Scortichini, G. Diletti
Istituto Zooprofilattico Sperimentale Dell'Abruzzo e Molise "G. Caporale"

10.45 – 11.15-COFFEE BREAK (Giardino Napoletano)

11.15 – 11.30 – **O13-ABC** – *OCCURRENCE OF PER- AND POLYFLUORINATED ALKYL SUBSTANCES IN WASTEWATER TREATMENT PLANTS IN NORTHERN ITALY*

B. Giannelli Moneta, M. Cerasa, A. Laganà, C. M. Montone, S. Mosca, V. Paolini, C. Cavaliere
Università degli Studi di Roma La Sapienza

11.30 – 11.45 – **O14-ABC** – *CHEMICAL CHARACTERIZATION AND SPECIATION OF THE SOLUBLE FRACTION OF ARCTIC PM10*

M. Marafante, S. Bertinetti, L. Carena, D. Fabbri, M. Malandrino, D. Vione, S. Berto
Università degli Studi di Torino

11.45 – 12.00 – **O15-ABC** – *A SIMPLE TWO-MEDIA DEGRADATION MODEL TO EVALUATE THE ENVIRONMENTAL FATE OF 4-ISOBUTYLACETOPHENONE, A SEMIVOLATILE TRANSFORMATION PRODUCT OF IBUPROFEN*

M. Minella, C. Arsene, I. G. Bejan, C. Roman, R. I. Olariu, M. Passananti, L. Carena, C. Minero, D. Vione
Università degli Studi di Torino

12.00 – 12.15 – **O16-ABC** – *EVALUATION OF SORPTION ABILITY OF SOY PROTEIN MICROSPONGES TOWARDS Pb²⁺ IONS*

S. Anselmo, T. Avola, K. Kalouta, S. Cataldo, G. Sancataldo, N. Muratore, V. Foderà, V. Vetri, A. Pettignano
Università degli Studi di Palermo

12.15 – 12.30 – **O17-ABC** – *ONLINE AUTOMATED MEASUREMENT AND OPTIMIZATION OF H2O2 CONCENTRATION USING ARDUINO ROBOT*

D.Palma, K.U. Antela, A. Morales, M.L. Cervera, A. Bianco Prevot
Università degli Studi di Torino

12.30 – 12.45 – **O18-ABC** – *THERMAL DEGRADATION CHEMISTRY OF LIPIDS: AN AGEING STUDY ON EVOO SAMPLES BY MEANS OF GAS AND LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY TECHNIQUES*

V. Chiaia, G. Micalizzi, D. Donnarumma, A. Irto, C. Bretti, P. Cardiano, L. Mondello
Università degli Studi di Messina

12.45 – 13.00 – **O19-ABC** - *SPECTROSCOPIC AND MULTI-SPECTRAL IMAGING FOR THE ON-SITE CHARACTERISATION OF EGYPTIAN PAINTED CARTONNAGES FROM THE AGA KHAN III NECROPOLIS, ASWAN (EGYPT)*

V. Guglielmi, P. Piacentini, A. D'Amato, C. A. Lombardi, V. Comite, A. Bergomi, M. Borelli, A. Tomaino, P. Fermo
Università degli studi di Milano

13.00 – 14.00 - Lunch (libero)

14.00 – 15.00 – Sessione poster: Ambienti e Beni Culturali-2 (P14-30); Chemiometria (P1-10); Sensori e Biosensori-2 (P14-25); Spettroscopia (P1-9).

Sessione Parallela: Chemiometria / Spettroscopia-1

SALA: PINACOTECA

15.00 – 15.20 – **KN2-CH** - *DATA DIMENSIONALITY REDUCTION OF HYPERSPECTRAL IMAGES FOR PEARS PUNCTURING IDENTIFICATION*

R. Calvini, V. Ferrari, C. Menozzi, P. Offermans, L. Maistrello, G. Foca, A. Ulrici
Università di Modena e Reggio Emilia

15.20 – 15.35 – **O10-CH** – *AN ANALYTICAL STRATEGY BASED ON HSI-NIR AND CHEMOMETRICS FOR THE NON-CONTACT QUANTIFICATION OF COLLAGEN IN BONES*

C. Malegori, G. Sciutto, P. Oliveri, S. Prati, S. Benazzi, E. Catelli, S. Cercatillo, D. Paleček, R. Mazzeo, S. Talamo
Università degli Studi di Genova

15.35 – 15.50 – **O11-CH** – *THE ROLE OF CHEMOMETRIC STRATEGIES IN PROCESSING MULTIBLOCK HYPERSPECTRAL DATA FOR THE SELECTIVE IDENTIFICATION OF BIOLOGICAL FLUIDS IN FORENSIC EVIDENCE*

G. Sciutto, E. Alladio, P. Oliveri, A. Mazzoleni, E. Catelli, C. Malegori, S. Prati, R. Mazzeo, M. Occhipinti, P. Garofano, R. Alberti, T. Frizzi
Univesrità degli Studi di Bologna

15.50 – 16.05 – **O12-CH** – *A NON-TARGETED APPROACH BASED ON RAMAN SPECTROSCOPY AND CHEMOMETRICS TO STUDY APULIAN AND SICILIAN TOMATOES FROM ORGANIC AND CONVENTIONAL FARMING*

T. Forleo, L.C. Giannossa, A.Mangone
Università degli Studi di Bari Aldo Moro

16.05 – 16.20 – **O1-S** – *THE IMPORTANCE OF ANALYTICAL SPECTROSCOPY IN THE FASHION INDUSTRY*

M. Innocenti, F. Biffoli, M. Bonechi, A. Comparini, E. Mariani, G. Pappaianni, M. Verrucchi, A. De Luca, W. Giurlani
Università degli Studi di Firenze

16.20 – 16.35 – **O2-S** - *ASSESSING INTERMETALLIC DIFFUSION IN ELECTROPLATED GOLD COATINGS: A COMBINED EDS AND XRF SPECTROSCOPIC APPROACH*

W. Giurlani, F. Biffoli, I. Maccioni, C. Giovani, D. Bettoni, M. Innocenti
Università degli Studi di Firenze

16.35 – 17.00 – COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O3-S** - *XPS ANALYSIS OF BUFFER AND CONCENTRATION EFFECTS ON DOPAMINE POLYMERIZATION FOR ONE-HEALTH APPLICATIONS*

A. Carlino, D. Chirizzi, A.R. De Bartolomeo, F. Milano, L. Giotta, M. R. Guascito
Università degli Studi del Salento

17.15 – 17.30 – **O4-S** - *XPS CHARACTERIZATION OF QDs-TIO₂ NANOCOMPOSITES FOR SOLAR FUELS PRODUCTION*

N. Ditaranto, F.S. Freyria, N. Channa, A. Fortunati, M. Zoli, S. Hernandez, N. Blangetti, M. Manzoli, S. Brovelli, B. Bonelli

Università degli Studi di Bari Aldo Moro

17.30 – 17.45 – **O5-S** - *AN ANALYTICAL APPROACH FOR CLARIFYING THE ZINC IMMOBILIZATION BY MARBLE WASTE POWDERS*

M. Fantauzzi, S. Liscia, B. Elsener, D. Biggio, D. Atzei, A. Rossi
Università degli Studi di Cagliari

17.45 – 18.00 – **O6-S** - *XPS AND ATR FTIR INVESTIGATION OF FUNCTIONALISED POLYMER SURFACE*

G. Casula, F. Zara, M. Fantauzzi, L. Brundu, B. Elsener, A. Rossi
Università degli Studi di Cagliari

Sessione Parallela: Sensori-Biosensori-4

SALA: ARCHEOLOGIA

15.00 – 15.15 – **O25-SB** - 2D NANOMATERIALS FOR BIOLOGICAL APPLICATIONS

E. De Gregorio, N. Calisi, L. Tedeschi, N. Poma, F. M. Vivaldi, T. Lomonaco, P. Salvo
Università degli Studi di Pisa

15.15 – 15.30 – **O26-SB** – GRAPHENE-BASED SMART INKS FOR ELECTROANALYSIS

A. Silvestri, C. Zanardi, S. Vazques Diás, G. Misia, F. Poletti, A. Cortajarena, M. Prato
Universita Ca' Foscari Venezia

15.30 – 15.45 – **O27-SB** – NANOMATERIAL-BASED STRATEGIES FOR ENHANCED ELECTROCHEMILUMINESCENCE BIOSENSING

A. Zanut, A. Porchetta, F. Paolucci, G. Valenti, P. Pastore, S. Bogialli
Università degli Studi di Padova

15.45 – 16.00 – **O28-SB** – TAILORING ZnO-BASED PIEZOTRONICS SENSORS BY CHEMICAL SPECIATION

G. Arrabito, V. Ferrara, G. Prestopino, P.G. Medaglia, M. Scopelliti, B. Pignataro
Università degli Studi Palermo

16.00 – 16.15 – **O29-SB** - EXPLORING THE ELECTROCHEMICAL PROPERTIES OF A NANOASSEMBLY OF CATIONIC CYCLODEXTRIN CARBON NANOTUBES AND FERROCENYL-CARNOSINE

C. Abate, G. Neri, A. Fragoso, O. Giuffrè, C. Foti
Università degli Studi di Messina

16.15 – 16.30 – **O30-SB** – AuNPs+TiO₂ HYBRID ELECTRODES FOR THE PHOTOELECTROCHEMICAL DETECTION OF CIPROFLOXACIN

S. Comis, D. Fumagalli, M. Longhi, V. Pifferi, L. Falciola
Università degli Studi Milano

16.35 – 17.00 – COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O31-SB** – LABEL-FREE IMMUNOSENSOR FOR THE DETECTION OF PSEUDOMONAS AERUGINOSA IN WATER SAMPLES: STATIC AND DYNAMIC DETECTION

E. Paialunga, R. Cancelliere, G. Sarpi, A. Ceccarelli, L. Micheli
Università degli Studi di Roma Tor Vergata

17.15 – 17.30 – **O32-SB** – ELECTROCHEMICAL SENSORS FOR FAST DETECTION OF CANNABINOIDS IN CANNABIS SATIVA L.

A. Monari, G. Foca, A. Ulrici, B. Zanfognini, V. Brighenti, F. Pellati, C. Zanardi, L. Pigani
Università degli Studi di Modena e Reggio Emilia

17.30 – 17.45 – **O33-SB** - POINT-OF-CARE ELECTROCHEMICAL MAGNETOGENOASSAY FOR THE DETECTION OF MUTATED KRAS ONCOGENE

S. Fortunati, C. Giliberti, A. Bertucci, V. Bianchi, A. Boni, I. De Munari, E. Ricciardi, P. Giacomini, R. Corradini, M. Giannetto, M. Careri
Università degli Studi di Parma

Sessione Parallela: Spettrometria di Massa

SALA: SALA DELLA CORNICE

15.00 – 15.20 – **KN1-MS** - MASS SPECTROMETRY-BASED PROTEOMICS IN THE LIFE SCIENCES: ANALYTICAL PERSPECTIVE AND NEW OPPORTUNITIES

M. Mattarozzi

Università degli Studi di Parma

15.20 – 15.35 – **O1-MS** – EXPLORING THE POTENTIAL OF EXTRACTIVE-LIQUID SAMPLING ELECTRON IONIZATION MASS SPECTROMETRY (E-LEI-MS) SYSTEM IN FOOD AND BIOLOGICAL APPLICATIONS

A. Arigò, G. Nevola, G. Famiglioni, P. Palma, A. Cappiello

Università degli Studi di Urbino Carlo Bo

15.35 – 15.50 – **O2-MS** – INNOVATIVE APPROACHES FOR IMPURITY IDENTIFICATION: LIQUID ELECTRON IONIZATION INTERFACE COUPLED WITH HIGH-RESOLUTION MASS SPECTROMETRY AND NORMAL/REVERSED PHASE UHPLC

G. Grasselli, A. Arigò, N. Marittimo, G. Famiglioni, P. Palma, M. Saeed, S. Perry, P. Navarro, P. Clarke, M. Brittin, A. Cappiello

Università degli Studi di Urbino Carlo Bo

15.50 – 16.05 – **O3-MS** – THE POTENTIAL OF THE STABLE ISOTOPE RATIO ANALYSIS TO ENSURE THE AUTHENTICITY OF FOOD SUPPLEMENTS

M. Perini, S. Pianezze

Fondazione Edmund Mach

16.05 – 16.20 – **O4-MS** – A SIMPLE DILUTION AND SHOOT: LOW-PRESSURE GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY FOR THE DETERMINATION OF PHTHALATES IN EXTRA-VIRGIN OLIVE OIL

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

Università degli Studi di Messina

16.20 – 16.35 – **O5-MS** - ON-LINE LIQUID-GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY FOR POLYCYCLIC AROMATIC HYDROCARBONS ANALYSIS IN EXTRA-VIRGIN OLIVE OIL

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

Università degli Studi di Messina

16.35 – 17.00 – COFFEE BREAK (Giardino Napoletano)

17.00 – 17.15 – **O6-MS** - DEVELOPMENT OF A MASS-SPECTROMETRY-BASED APPROACH FOR THE EVALUATION OF THE MIGRATION OF ALLERGENIC PROTEINS FROM PLANT-BASED FOOD CONTACT MATERIALS

M. Piergiovanni, L. Toma, M. Mattarozzi, O. Pitirollo, M. Grimaldi, A. Cavazza, N. Riboni, F. Bianchi, M. Careri

Università degli Studi di Parma

17.15 – 17.30 – **O7-MS** - HEAT-INDUCED LIPID MODIFICATIONS IN PISTACIA VERA BY MAILLARD REACTIONS

G. Ventura, C.D. Calvano, A. Monopoli, I. Losito, T.R.I. Cataldi
Università degli Studi di Bari Aldo Moro

17.30 – 17.45 – **O8-MS** - *MASS SPECTROMETRY ANALYSIS OF QUORUM SENSING MOLECULES IN SAMPLES FROM PATIENTS WITH SEPTIC SHOCK*

F. Dal Bello, A. Affricano, V. Fanelli, V. Cantaluppi, C. Medana
Università degli Studi di Torino

19.00 – NAVETTE CIRCOLARI PER CENA SOCIALE

19.30 – CENA SOCIALE PRESSO GROTTA DEL SARACENO

GIOVEDÌ' 21/09/2023

Sessione Parallela: Spettroscopia-2 / Elettoanalitica

SALA: PINACOTECA

9.00 – 9.20 – **KN1-S** - *DEVELOPMENT AND ANALYTICAL CHARACTERIZATION OF NOVEL BIOACTIVE HYBRID COMPOSITES FOR BIOMEDICAL OR AGRI-FOOD APPLICATIONS*

S. Cometa, L. Pinto, F. Busto, A. Castellaneta, A. Marzulli, F. Baruzzi, G. Iannacone, E. De Giglio

Università degli Studi di Bari Aldo Moro

9.20 – 9.35 - **O7-S** - *PLASMONIC SENSOR FOR DETECTING CIRCULATING BIOMARKERS*

R. D'Agata, N. Bellassai, G. Spoto

Università degli Studi di Catania

9.35 – 9.50 – **O8-S** – *SPECTROSCOPIC AND MORPHOLOGICAL CHARACTERIZATION OF GREEN-SYNTHEZED COPPER NANOPARTICLES FOR ANTIMICROBIAL APPLICATIONS*

M. C. Sportelli, R. A. Picca, D. D'Agostino, M. Izzi, N. Cioffi

Università degli Studi di Bari Aldo Moro

9.50 – 10.05 – **O9-S** – *PLGA MICELLE-STABILIZED ANTIMICROBIAL CERIUM OXIDE NANOPARTICLES INCORPORATION IN GELATINE AND MAIZE STARCH FILMS*

V. Marchianò, M. Matos, G. Gutierrez , M.C. Blanco-Lopez , N. Cioffi , N. Ditaranto
CSGI

10.05 – 10.20 – **O10-S** – *PROBING THE INTERACTION BETWEEN NANOANTIMICROBIALS AND LIPID MEMBRANES*

M. Izzi, M. Oliver, M. Miró, N. Cioffi

Università degli Studi di Bari Aldo Moro

10.20 – 10.35 – **O11-S** – *CHARGE TRANSFER ESTIMATION IN MOLECULAR CRYSTAL THROUGH RAMAN AND INFRARED SPECTROSCOPIES: A THEORETICAL STUDY*

F. Biffoli, M. Salvi, I. Cartechini, C. Fontanesi, M. Pagliai, E. Venuti, T. Salzillo, M. Innocenti

Università degli Studi di Firenze

10.35 – 10.50 – **O12-S** – *INSIGHTS IN THE ELECTROSYNTHESIS OF ZINC/CALCIUM HYDROXIDES: A SPECTROSCOPIC STUDY*

M. Izzi, D. Quarato, M.C. Sportelli, N. Cioffi, R. A. Picca

Università degli Studi di Bari Aldo Moro

10.50 – 11.20-COFFEE BREAK (Giardino Napoletano)

11.20 – 11.35 – **O1-EL** - *ANALYTICAL CHARACTERISATION OF DEPOSITS PRODUCED BY PULSED CURRENT*

E. Mariani, V. dell'Aquila, S. Bitossi, W. Giurlani, P. Lo Nostro, M. Innocenti

Università degli Studi di Firenze

11.35 – 11.50 – **O2-EL** - *ELECTRODEPOSITION AND CHARACTERIZATION OF MANGANESE ARSENIDES (MnXAs) AS PROMISING CANDIDATES IN SPINTRONICS*

G. Pappaianni, W. Giurlani, D. Morini, M. Bonechi, F. Montanari, C. Bazzicalupi, M. Innocenti
Università degli Studi di Firenze

11.50 – 12.05– **O3-EL** - *PRINTING ENZYMES AND NANOMATERIALS: WATER-BASED INK FORMULATION FOR STENCIL-PRINTING ELECTRODES*

A. Tricase, V. Marchianó, N. Ditaranto, E. Macchia, C. Di Franco, L. Gentile, D. Leech, R. Kidayaveetil, G. Scamarcio, L. Torsi, P. Bollella
Università degli Studi d Bari Aldo Moro

12.05 – 12.20 – **O4-EL** – *TOWARDS UNDERSTANDING THE ELECTROCHEMICAL BEHAVIOUR OF 3D GRAPHENE STRUCTURES: FROM SYNTHESIS TO ELECTROANALYTICAL APPLICATIONS*

A.B. Carbonaro, D. Fumagalli, V. Greco, A. Gulino, V. Pifferi, L. Falciola, A. Giuffrida
Università degli Studi di Catania

12.20 – 12.35 – **O5-EL** - *PRINT-LIGHT-SYNTHESIS OF GOLD THIN FILM ELECTRODES FOR ELECTROCHEMICAL SENSING*

S. Gianvittorio, H. Pick, D. Tonelli, A. Lesch
Università degli Studi di Bologna

Sessione Parallela: Equilibri

SALA: SALA DELLA CORNICE

9.00 – 9.20 – **KN1-Eq** - *CURRENT IT TOOLS AND BEST PRACTICES FOR DETERMINATION OF STABILITY CONSTANTS FROM POTENTIOMETRIC DATA*

S. Berto, S. Blasco, L. Castellino, A. Cvetkovski, S. Gama, E. García-España, P. Hermann, V. Kubiček, G. Lando, M. Marafante, M. Meyer, W. Plass, L. Quinodoz, D. Milea
Università degli Studi di Torino

9.20 – 9.35 – **O1-Eq** - *LANTHANIDES RECOVERY, FROM AQUEOUS SOLUTIONS, BY BIOSORPTION ONTO GALDIERIA SULPHURARIA*

C. Manfredi, A.J. Amoruso, C. Ciniglia, M. Iovinella, A. El Hassanin, M. Trifuoggi
Università Fedirco II di Napoli

9.35 – 9.50 – **O2-Eq** – *IRON(III) COMPLEXES OF FLAVANONES IN CITRUS FRUITS: STABILITY, STRUCTURES AND ANTIOXIDANT PROPERTIES*

E. Furia, D. Aiello, L. Bartella, L. Di Donna, V. Lettera, A. Napoli
Università degli Studi della Calabria

9.50 – 10.05 – **O3-Eq** – *MULTI-TECHNIQUE CHARACTERIZATION AND SPECIATION OF OXOVANADIUM(IV)/8-HYDROXYQUINOLINE-2-CARBOXYLIC ACID AQUEOUS SYSTEM*

M. Marafante, S. Bertinetti, O. Akintola, B. Kintzel, W. Plass, S. Gama, D. Milea, S. Berto
Università degli Studi di Torino

10.05 – 10.20 – **O4-Eq** – *A MULTIANALYTICAL APPROACH TO ASSESS THE CHEMICAL SPECIATION OF CADMIUM(II) IN THE NORTH SEA*

G. Lando, N. Porcino, M. Del Core, C. De Stefano, D. Milea, M. Sprovieri
Università degli Studi di Messina

10.20 – 10.35 – **O5-Eq** – *METHOTREXATE-BASED METAL-COORDINATED ASSEMBLIES RESPONDING TO pH STIMULI: A MULTIPLE EQUILIBRIA STUDY IN SOLUTION AND AT THE INTERFACE*

G. D. G. Santonoceta, C. Sgarlata
Università degli Studi di Catania

10.35 – 10.50 – **O6-Eq** – *BE POSITIVE! MORE THAN A STATE OF MIND BEHIND THE THERMODYNAMIC STUDY OF METAL COMPLEXES WITH NOVEL CALCITERMIN PEPTIDE DERIVATIVES*

D. Bellotti, S. Leveraro, M. Rowińska-Żyrek, M. Remelli
Università degli Studi di Ferrara

10.50 – 11.20-COFFEE BREAK (Giardino Napoletano)

11.20 – 11.35 – **O7-Eq** - *INTERACTION OF THE FUNGAL METABOLITE HARZIANIC ACID WITH RARE-EARTH CATIONS*

G. De Tommaso, M. M. Salvatore, F. De Paola, M. Iuliano, A. Andolfi, M. Della Greca, F. Vinale, A. Straropoli, F. Salvatore, M. Giuda, A. Siciliano, R. Nicoletti
Università Federico II di Napoli

11.35 – 11.50 – **O8-Eq** - *GALLIC ACID FOR THE SEQUESTRATION OF ORGANOMETALS IN AQUEOUS SOLUTIONS*

A. Irto, S. G. M. Raccuia, R. M. Cigala, C. Bretti, O. Gómez-Laserna, P. Cardiano, C. De Stefano, F. Crea
Università degli Studi di Messina

11.50 – 12.05– **O9-Eq** - *HYDROXYPYRONES FOR OXOVANADIUM(IV) COMPLEXATION*

R. Cappai, A. Fantasia, D. Sanna, G. Sciortino, F. Pisanu, E. Garribba, M. A. Santos, V. M. Nurchi
Università degli Studi di Sassari

12.05 – 12.20 – **O10-Eq** – *MEDIUM AND IONIC STRENGTH DEPENDENCE OF FORMATION CONSTANTS. THE “PURE WATER” MODEL*

C. Bretti, P. Cardiano, R.M. Cigala, F. Crea, A. Irto, G. Lando, D. Milea, C. De Stefano
Università degli Studi di Messina

12.20 – 12.35 – **O11-Eq** - *SPECIATION STUDY OF Cu(II) WITH LACTIC ACID AND PYRUVIC ACID IN SEAWATER-LIKE CONDITIONS*

R. Di Pietro, M. González-Dávila, J.M. Santana-Casiano, P. Cardiano, G. Lando, C. De Stefano
Università degli Studi di Messina

Sessione Parallela: Alimenti

SALA: ARCHEOLOGIA

9.00 – 9.20 – **KN1-ALI** - *THE POTENTIAL OF AMBIENT MASS SPECTROMETRY COMBINED WITH CHEMOMETRICS FOR THE ASSESSMENT OF FOOD AUTHENTICITY*

F. Rigano, D. Mangraviti, C. Cafarella, P. Dugo, L. Mondello
Università degli Studi di Messina

9.20 – 9.35 – **O1-ALI** - *MULTIFUNCTIONAL PROPERTIES OF SHORT- AND MEDIUM-CHAIN PEPTIDE MIXTURES FROM HEMP SEED AGAINST METABOLIC SYNDROME*

S. E. Aita, A. Cerrato, A. Laganà, C. Lammi, C.M. Montone, A. L. Capriotti
Università degli Studi di Roma La Sapienza

9.35 – 9.50 – **O2-ALI** – *FORMULATION OF BITTERS AND FOOD SUPPLEMENTS STARTING FROM EXTRACTS OF PLANT BLENDS (CONVENTIONAL PROCESS) AND BLENDING EXTRACTS OF SINGLE PURE PLANTS*

V. Nebbioso, F. Varchetta, A. Perrone, L. Avolio, E. de Martino, M. Gallo, D. Naviglio
Università Federico II di Napoli

9.50 – 10.05 – **O3-ALI** – *DETECTION OF PERFLUOROALKYL COMPOUNDS IN FOOD MATRICES: ANALYTICAL ISSUES AND FUTURE CHALLENGES*

M. Leva, S. D'Antonio, A. De Benedictis, G. Di Bernardo, G. Diletti, G. Romeo, G. Scortichini, G. Tammaro, R. Ceci
Istituto Zooprofilattico Sperimentale Dell 'Abruzzo e Molise "G. Caporale"

10.05 – 10.20 – **O4-ALI** – *DEVELOPMENT OF A μ -SPE METHOD FOLLOWED BY UPLC-MS/MS ANALYSIS FOR THE DETERMINATION OF PHOMOPSIN A IN RAW LUPIN SAMPLES*

F. Eugelio, S. Palmieri, E. Oliva, A. Pepe, F. Fanti, M. Del Carlo, D. Compagnone, M. Sergi
Università degli Studi di Teramo

10.20 – 10.35 – **O5-ALI** – *A COMBINATION OF COULOMETRIC AND SPECTROPHOTOMETRIC TECHNIQUES IN A RAPID ANALYTICAL METHOD TO CATEGORIZE EXTRA VIRGIN OLIVE OIL*

A. S. Sammarco, G. Picariello, E. Vasca, F. Siano
Università degli Studi di Salerno

10.35 – 10.50 – **O6-ALI** – *A GREEN AND INNOVATIVE ANALYTICAL APPROACH BASED ON COLLOIDAL ANALYSIS TO ASSIST WINE GROUPING*

N. Kassouf, V. Marassi, S. Giordani, A. Zappi, D. Melucci, B. Roda, A. Zattoni, P. Morozzi, P. Reschiglian
Università degli Studi di Bologna

10.50 – 11.20-COFFEE BREAK (Giardino Napoletano)

11.20 – 11.35 – **O7-ALI** - *IDENTIFICATION AND QUANTIFICATION OF COENZYME Q10 AND VITAMIN K1 IN BRASSICA MICROGREENS AND BABY LEAVES BY LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY COUPLED WITH ATMOSPHERIC PRESSURE CHEMICAL IONIZATION*

M. Bianco, I. Losito, B. Leoni, P. Santamaria, C.D. Calvano, T. R. I. Cataldi
Università degli Studi di Bari

11.35 – 11.50 – **O8-ALI** - *NUTRITIONAL VALUE OF HOUSE CRICKET (Acheta domesticus) FED DIETS SUPPLEMENTED WITH DIFFERENT LEVELS OF THE SEAWEED PALMARIA PALMATA IN THE FEEDING MEDIA*

B. Ajdini, I. Biancarosa, G. Cardinaletti, S. Illuminati, A. Annibaldi, F. Girolametti, M. Fanelli, G. Pascon, M. Martinoli, C. Truzzi
Università Politecnica delle Marche

11.50 – 12.05– **O9-ALI** - *NIAS MIGRATION STUDY FROM POLYMERIC MATERIAL TO DRY FOOD*

M. Roncoli, M. Ferretti, E. Perin, V. Gianotti
Università degli Studi del Piemonte Orientale

12.05 – 12.20 – **O10-ALI** – *THE ITALIAN TECHNICAL SPECIFICATION UNI/TS 11868:2022 FOR THE DETERMINATION OF SULPHITES IN MEAT*

M. Iammarino, G. Berardi, A. Di Taranto
Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata

12.20 – 12.35 – **O11-ALI** - *IDENTIFICATION OF THE TIANEPTINE TRANSFORMATION PRODUCTS IN RIVER WATER BY UHPLC-MS/MS SINGLE-LABORATORY VALIDATION OF THE ThRAII METHOD FOR MULTIPLE ALLERGEN DETECTION IN CHOCOLATE*

R. Pilolli, A. Lamonaca, C. Nitride, E. De Angelis, C. van Poucke, N. Gillard, A.-C. Huet, M. De Loose, J. Henrottin, E.C.N. Mills, L. Monaci
CNR-ISPA

12.40 – 13.10 – Chiusura convegno

ELENCO POSTER

Cod.	Titolo	Autore presentante
Alimenti		
ALI-P1	QUALI-QUANTITATIVE CHARACTERIZATION AND VALORIZATION OF SOLID AND LIQUID WASTES FROM EVO AGRIFOOD CHAIN	M. Locatelli
ALI-P2	CHEMICAL PROFILING AND ANTI-INFLAMMATORY/ANTI-LIPOGENIC ACTIVITY OF AN ARTICHOKE STEM EXTRACT	R. Sardella
ALI-P3	DETERMINATION OF 289 PESTICIDES IN ITALIAN EGGS FROM LARGE RETAIL: ORGANIC vs CONVENTIONAL PRODUCTION	R. Rosato
ALI-P4	UNTARGETED VOLATOLOMICS BY HEADSPACE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY (HS-SPME-GC-MS) FOR THE IDENTIFICATION OF QUALITY MOLECULAR MARKERS IN FRESH-CUT ICEBERG LETTUCE	G. Spadaccino
ALI-P5	CHARACTERIZATION OF VOLATILES COMPOUNDS IN ITALIAN CIDER USING GCxGC-MS AND MULTIVARIATE ANALYSIS	C. Orecchio
ALI-P6	HS-SPME/GC-MS AND CHEMOMETRIC APPROACH FOR THE STUDY OF VOLATILE PROFILE IN X-RAY IRRADIATED SURFACE-RIPENED CHEESES	R. Zianni
ALI-P7	A HIGH-SENSITIVE ANALYTICAL METHOD FOR THE DETERMINATION OF PAHS IN INFANT FOOD	I. Della Rovere
ALI-P8	SYNTHESIS OF MOLECULARLY IMPRINTED POLYMER (MIP) FOR THE SELECTIVE EXTRACTION OF PHYTOSTEROLS IN FOOD MATRICES	E. Oliva
ALI-P9	ANALYTICAL METHODOLOGIES FOR THE ASSESSMENT OF PAHs, HM _s , and PAEs IN HONEYBEES AND HONEY	C. Di Fiore
ALI-P10	LIPIDOMICS AND METABOLOMIC TOOLS FOR THE CHARACTERIZATION OF CEMEMBERT CHEESE ANALYSED BY UHPLC-Q-ORBITRAP-MS	M. Campaniello
ALI-P11	CHARACTERIZATION OF HELIX ASPERSA ASPERSA FLAVOUR: NUTRITIONAL AND POLLUTION EVALUATION	F. Saiano
ALI-P12	INTEGRATED ANALYTICAL APPROACH FOR THE CHARACTERIZATION OF BIO-BASED FOOD CONTACT MATERIALS	M. Mattarozzi
ALI-P13	ANTHROPOGENIC IMPACT ASSESSMENT USING THE HONEY MATRIX AND CHARACTERIZATION OF SOURCES OF POLYCYCLIC AROMATIC HYDROCARBON CONTAMINATION	S. Passarella
ALI-P14	RICE HUSK AS A SUSTAINABLE SOLUTION FOR SOIL REMEDIATION: FEASIBILITY AND PRACTICAL APPLICATION	R. Cecire
ALI-P15	ADVANCING MOSH/MOAH ANALYSIS TOWARDS SPECIATION AND CONTAMINANT IDENTIFICATION	A. Miliazza
ALI-P16	FAST SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS FOR THE DETERMINATION OF AFLATOXINS IN SUPPLEMENT FOODS	S. Palmieri
Ambiente e Beni Culturali		
ABC-P1	ANALYTICAL-PETROGRAPHIC STUDY OF BUGNATO DEGRADATION OF AN ANCIENT MILAN BUILDING	M. Tomassetti
ABC-P2	LEACHATE FROM LANDFILL OF MUNICIPAL SOLID WASTE: CHARACTERIZATION AND DETERMINATION OF THERMODYNAMIC PROPERTIES	C. Alessandrello
ABC-P3	PYRENE REMOVAL FROM WATER BY NEW ADVANCED UP AND DOWN PHOTOCATALYST	S. Barreca
ABC-P4	ASSESSING SOURCES AND FRACTIONS OF METALS ASSOCIATED WITH BEACHED PLASTIC LITTER: A CASE STUDY IN LAKE COMO (ITALY)	S. Carnati
ABC-P5	ON THE BEHAVIOR OF DISPERSED MICROPLASTICS IN LEAD - CONTAMINATED WATERS	A. Pettignano
ABC-P6	TRANSMISSION ELECTRON MICROSCOPY AND MICRO-RAMAN SPECTROSCOPY FOR THE CHARACTERIZATION OF	F. Bianchi

NANOPARTICLES AS EMERGING CONTAMINANTS IN ANTARTIC SNOW SAMPLES

ABC-P7	NANOFUN-NANOCELLULOSE BASED MEMBRANES FOR WATER PURIFICATION	S. Giannarelli
ABC-P8	OPTIMIZATION OF A METHOD FOR THE ULTRATRACE LEVEL ANALYSIS OF POPs FROM POLAR AQUEOUS MATRICES	S. Giannarelli
ABC-P9	KINETICS AND TRANSFORMATION MECHANISM OF AN ANTIPSYCHOTIC DRUG TREATED WITH C3N4 BASED MATERIALS	P. Calza
ABC-P10	INVESTIGATING ARSENIC ADSORPTION AND DESORPTION IN THE COMO AQUIFER (ITALY): IMPLICATIONS FOR CONTAMINANT SEQUESTRATION AND MOBILITY IN GROUNDWATER	S. Trotta
ABC-P11	A SYMPOSIUM IN THE LAB: DISCOVERING WINE MOLECULAR MARKERS IN ANCIENT POTTERY THROUGH HPLC-MS/MS	A. Ciccola
ABC-P12	CURSE OF THE ANCIENT DYES: A MULTI-ANALYTICAL STUDY OF TEXTILE FRAGMENTS FROM TUTANKHAMUN'S CHAMBER	A. Ciccola
ABC-P13	THE UCUPE MASK'S MYSTERY UNVEILED: A COMPREHENSIVE CHARACTERISATION OF METALS AND ADHESIVES EMPLOYED IN ITS CREATION	I. Bertelli
ABC-P14	SILVER NANOPARTICLES FROM ORANGE PEEL EXTRACT AS SELECTIVE SENSOR FOR LEAD IONS IN AQUEOUS SOLUTIONS	S. Piras
ABC-P15	BERGAMOT POMACE ADSORBENT MATERIAL FOR THE REMOVAL OF HEAVY METAL IONS FROM AQUEOUS SOLUTIONS	S. G. M. Raccuia
ABC-P16	ASSESSMENT OF BIODEGRADABLE PLASTIC FATE IN THE ENVIRONMENT: INVESTIGATING BIODEGRADABLE MULCH FILMS	F. Modugno
ABC-P17	ANALYTICAL PYROLYSIS FOR THE CHARACTERIZATION OF PAINT MATERIALS IN STREET ART IN THE PRIN PROJECT "SUPERSTAR - SUSTAINABLE PRESERVATION STRATEGIES FOR STREET ART"	F. Modugno
ABC-P18	Cr(VI) ABSORPTION BY SILICA TRANSPARENT XEROGEL MONOLITH: SPECTRAL AND KINETIC STUDY	M. Zannotti
ABC-P19	QUANTIFICATION OF MICROPLASTICS AND POLYMER ADDITIVES IN AIRBORNE PARTICULATE AND SETTLED DUSTS COLLECTED IN INDOOR ENVIRONMENTS	G. Biale
ABC-P20	ADVANCEMENTS IN SAMPLING STRATEGIES FOR ASSESSING POPS: PRE-LABELED ACTIVE CARBON FIBERS VS QFF/PUF	E. Santarelli
ABC-P21	SOURCE APPORTIONMENT AND IDENTIFICATION OF EMISSION SOURCES OF ODOROUS COMPOUNDS BY THERMAL DESORPTION AND GC-MS ANALYSIS	M. Toscanesi
ABC-P22	QUANTITATIVE DETERMINATION OF TRACE OR ULTRA-TRACE LEVELS IN COMPLEX NATURAL SYSTEMS: A STRATEGIC STRATEGY FOR RARE EARTH ELEMENTS	F. Saiano
ABC-P23	CHARACTERIZATION OF HELIX ASPERSA ASPERSA FLAVOUR: NUTRITIONAL AND POLLUTION EVALUATION	F. Saiano
ABC-P24	ANALYTICAL METHOD FOR BISPHENOL A (BPA) CONJUGATED/FREE DETERMINATION IN BIOLOGICAL FLUIDS SAMPLES	G. Perra
ABC-P25	TEACHING AND TRAINING ACTIVITIES IN THE FIELD OF HERITAGE SCIENCE: THE ROLE OF ANALYTICAL SPECTROSCOPY AND CHEMOMETRICS	G. Scitutto
ABC-P26	SOLUZIONE MEDUSA-GC/MS, LA PIÙ RECENTE CRIOLOGIA APPLICATA ALL'ANALISI IN CONTINUO DI SOSTANZE CLIMATOLOGICHE ALTERANTI IN CAMPIONI DI ARIA	D. Morosini
ABC-P27	ON THE FATE OF HERBICIDES: SURFACTANTS/BIO-SUBSTRATES AFFINITY AND TRANSPORT TESTS	
ABC-P28	HOW RELIABLE IS THE VALUE OF A BINDING CONSTANT? THE Ag(I)-ANTHRACENYL BISCARBENE/DNA SYSTEM	T. Biver
ABC-P29	ORANGE PEEL WASTE AS SUSTAINABLE MATERIALS FOR POLLUTANTS REMOVAL FROM AQUEOUS SOLUTIONS	M. Zannotti
ABC-P30	PRELIMINARY TESTS TO EVALUATE THE PERFORMANCE OF A BOTANICAL BIOFILTER IN REMOVING INDOOR AIR POLLUTANTS	P. Fermo

Bioanalitica e Omics

B-P1	ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-ION MOBILITY-HIGH RESOLUTION MASS SPECTROMETRY METABOLOMICS FOR CEREAL QUALITY	F. Bianchi
B-P2	DETERMINATION OF OXIDATIVE STRESS MARKERS IN ORAL FLUIDS BY SPE-DLLME AND UPLC-ESI-MS/MS ANALYSIS	F. Fanti
B-P3	QUANTITATIVE DETERMINATION OF A NEW N-ACYLETHANOLAMIDE DERIVATIVES IN BIOLOGICAL SAMPLES	V. Greco
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