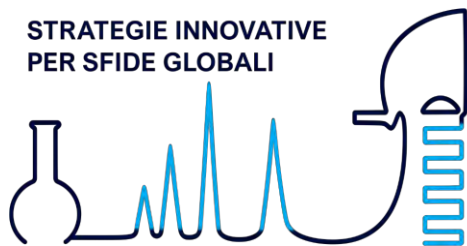


STRATEGIE INNOVATIVE
PER SFIDE GLOBALI



XXXII Congresso Nazionale Divisione di Chimica Analitica

6-10 settembre 2026, Venezia

PROGRAMMA

Campus Scientifico dell'Università Ca' Foscari, Venezia Mestre

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Divisione di Chimica Analitica

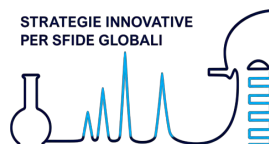


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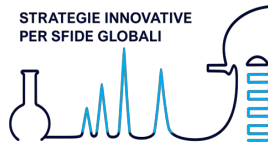


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STRATEGIE INNOVATIVE
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**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

MEDIA PARTNER

ANALYTICAL &
BIOANALYTICAL
CHEMISTRY

Water, Air,
&
Soil Pollution

AN INTERNATIONAL JOURNAL OF
ENVIRONMENTAL POLLUTION

A nome del Comitato Scientifico e del Comitato Organizzatore, sono lieto di darvi il benvenuto al XXXII Congresso Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana, in programma dal 6 al 10 settembre 2026 presso il Campus Scientifico dell'Università Ca' Foscari, a Venezia Mestre.

“Strategie innovative per sfide globali” è il filo conduttore di questa edizione. In un tempo segnato da trasformazioni ambientali, sanitarie e tecnologiche sempre più rapide, la chimica analitica è chiamata non soltanto a misurare, ma a produrre dati affidabili, interpretarli e trasformarli in conoscenza e in strumenti utili per le decisioni. È in questa prospettiva che il Congresso intende mettere in luce il contributo centrale della nostra disciplina al progresso scientifico, tecnologico e sociale.

Il programma scientifico riflette pienamente la vitalità e la trasversalità della chimica analitica. Quattro giornate di lavori riuniranno conferenze plenarie dedicate a temi di particolare attualità, dalla sfida dei PFAS all'innovazione nei biosensori, fino alla chimica analitica verde e sostenibile, insieme a keynote lectures, comunicazioni orali parallele e tre ampie sessioni poster. Le sessioni attraverseranno la chemiometria e la qualità del dato, la bioanalitica e le *-omics*, i sensori, la scienza delle separazioni, la spettroscopia, la spettrometria di massa e l'elettroanalitica, fino alle applicazioni ambientali, alimentari, forensi, tossicologiche e nel campo dei beni culturali. Un'attenzione particolare sarà inoltre dedicata alla digitalizzazione, all'intelligenza artificiale, all'automazione e allo sviluppo di approcci sempre più sostenibili.

Analitica 2026 vuole essere soprattutto un luogo di incontro e di confronto. Il dialogo tra università, enti di ricerca e industria, il Premio Giovane Ricercatore e l'ampio spazio riservato alle nuove generazioni testimoniano l'impegno della Divisione nel favorire la crescita scientifica e professionale, la circolazione delle idee e la nascita di nuove collaborazioni. Anche i momenti di incontro e convivialità previsti dal programma contribuiranno a rinsaldare i legami della nostra comunità.

Accogliervi a Venezia e Mestre, in un territorio nel quale patrimonio storico, sfide ambientali e capacità di innovazione si incontrano in modo unico, è per noi motivo di particolare orgoglio. Mi auguro che queste giornate siano ricche di idee, di stimolanti scambi scientifici e di relazioni durature, e che rinnovino lo spirito di comunità che da sempre anima la Divisione di Chimica Analitica.

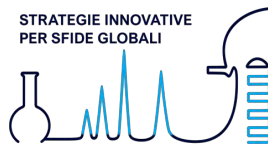
Buon congresso a tutte e a tutti.

Carlo Barbante

Chair Analitica 2026

Indicazioni per i presentanti

STRATEGIE INNOVATIVE
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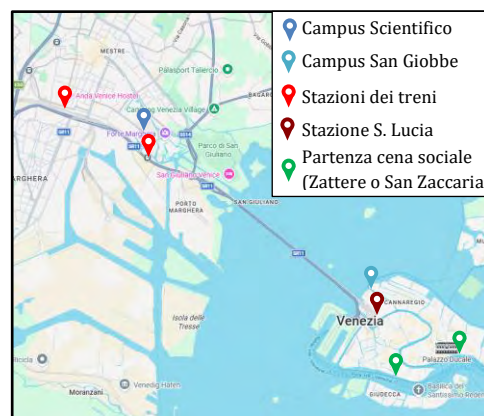
**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

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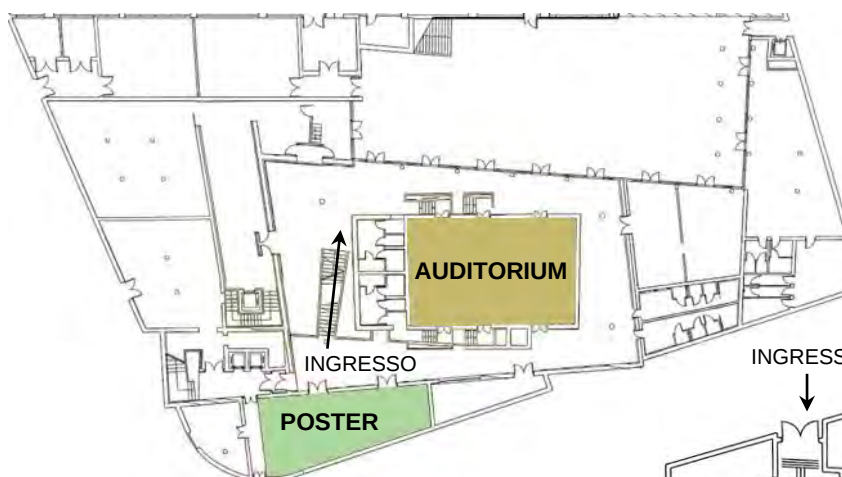
VIA Torino 155, 30170 Venezia Mestre:

<https://maps.app.goo.gl/ZRhQF7CSXrPJmd4x7>

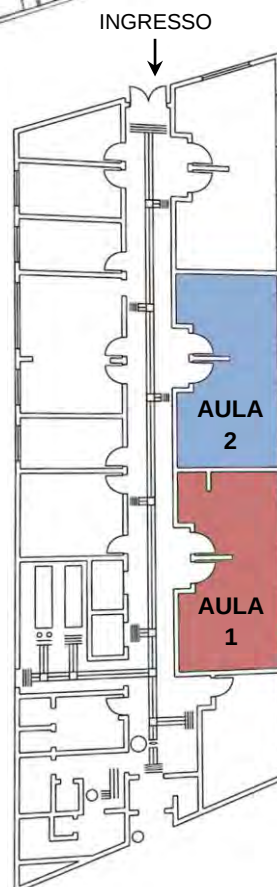
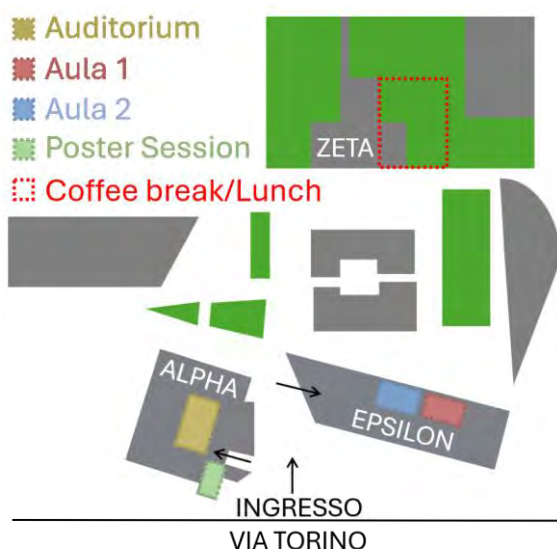
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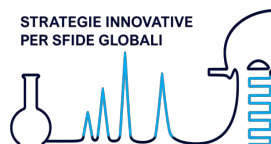
EDIFICIO ALFA PIANO -1



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EDIFICIO EPSILON PIANO TERRA



RACCOMANDAZIONI PER LE COMUNICAZIONI ORALI

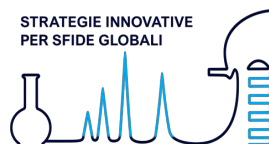
Keynote: 20 min (17 min di presentazione + 3 min di discussione)

Comunicazioni orali: 15 min (12 min di presentazione + 3 min di discussione)

Le diapositive dovranno essere preparate utilizzando MS-PowerPoint, in formato 16:9.

Il contributo potrà essere caricato nell'aula della presentazione fino alle ore 9:00 (per chi presenta la mattina) oppure fino alle ore 14:00 (per chi presenta il pomeriggio) del giorno stesso in cui si terrà la sessione di interesse, rivolgendosi allo staff presente.

Programma Sintetico



XXXII Congresso Nazionale
Divisione di Chimica Analitica
 6-10 settembre 2026, Venezia

Domenica 6 Settembre 2026

17.00 - 21.00	Registrazione dei partecipanti
19.00 - 21.00	Cocktail di benvenuto

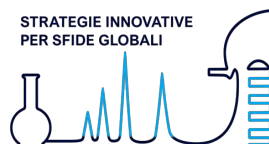
Lunedì 7 Settembre 2026 - Mattina

08.30 - 09.00	Registrazione dei partecipanti		
09.00 - 09.30	Apertura del Congresso		
09.30 - 10.15	Plenaria 1 - Ambiente - R. Ebinghaus <i>Auditorium</i>		
10.15 - 10.35	Premio Giovane Ricercatore: D. Spanu <i>Auditorium</i>		
10.35 - 11.05	COFFEE BREAK		
	Chemimetria e Qualità del Dato (CHEMO) <i>Auditorium</i>	Sensori e Biosensori (SENS) <i>Aula 1</i>	Bioanalitica & -omics (BIO-OMICS) <i>Aula 2</i>
11.10 - 11.30	Keynote C. Malegori	Keynote A. Scroccarello	Keynote V. Marassi
11.30 - 11.45	D. Ballabio	V. Marchianò	C. D. Calvano
11.45 - 12.00	F. Marini	A. Glovi	F. Bartolini
12.00 - 12.15	B. Benedetti	B. Cassano	F. Fanti
12.15 - 12.30	A. Bova	L. Sartorelli	N. Interino
12.30 - 12.45	S. Fornasaro	A. Miglione	A. Cerrato
12.45 - 13.00	C. Durante	M. Carbone	E. Salviati
13.00 - 13.15	S. Pellacani	P. Kalligosfyri	F. Biondi
13.15 - 14.00	LUNCH		
14.00 - 15.00	SESSIONE POSTER 1: CHEMO, BIO		

Lunedì 7 Settembre 2026 - Pomeriggio

	Chemimetria e Qualità del Dato (CHEMO) <i>Auditorium</i>	Spettroscopia Analitica (SPA) <i>Aula 1</i>	Bioanalitica & -omics (BIO-OMICS) <i>Aula 2</i>
15.00 - 15.05		Keynote W. Giurlani	Consegna Premio Cristina Giovannoli
15.05 - 15.20	M. Barbera		J. Brandi
15.20 - 15.35	B. Giussani	C. Giovani	S. Cavallera
15.35 - 15.50	M. Ruocco	R. A. Picca	P. Di Battista
15.50 - 16.05	V. Caponigro	E. De Giglio	M. Locatelli
16.05 - 16.20	V. Mongelli	F. Pellegrino	S. Conoci
16.20 - 16.35	A. Biancolillo	G. Casula	V. Testa
16.35 - 17.00	COFFEE BREAK		
17.00 - 17.15	G. Tamasi	M. Barbaresi	G. Ventura
17.15 - 17.30	L. Teja	G. Putzolu	E. Robotti
17.30 - 17.45	M. Casale	C. Adriano	E. Spezzani
17.45 - 18.00			G. Solarino
18.00 - 19.00	Assemblea Divisionale		

Programma Sintetico



XXXII Congresso Nazionale
Divisione di Chimica Analitica
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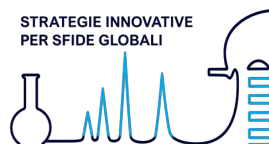
Martedì 8 Settembre 2026 - Mattina

08.30 - 09.00	Registrazione dei partecipanti		
09.00 - 09.45	Plenaria 2 - Biosensori - S. Campuzano Ruiz <i>Auditorium</i>		
	Sensori e Biosensori (SENS) <i>Auditorium</i>	Ambiente e Beni Culturali (ABC) <i>Aula 1</i>	Green Analytical Chemistry (GREEN) <i>Aula 2</i>
09.55 - 10.00	Keynote F. Di Francesco	Keynote L. Carena	
10.00 - 10.15			J. Gambetta Vianna
10.15 - 10.30	W. Cimmino	E. Ceccardi	G. Musile
10.30 - 10.45	V. Mazzaracchio	S. Barreca	S. Della Posta
10.45 - 11.00	C. Maffezzoni	E. Cerri	F. Alchera
11.00 - 11.30	COFFEE BREAK		
	Sensori e Biosensori (SENS) <i>Auditorium</i>	Ambiente e Beni Culturali (ABC) <i>Aula 1</i>	Green Analytical Chemistry (GREEN) <i>Aula 2</i>
11.30 - 11.45	S. Fortunati	M. Ginepro	R. Biesuz
11.45 - 12.00	A. Puzzello	D. Monticelli	A. Zanoletti
12.00 - 12.15	G. Moro	S. Frassati	T. Pobat
12.15 - 12.30	I. V. Di Cristoforo	M. Mataloni	C. Crescenzi
12.30 - 12.45	L. Fiore	C. Abate	I. Sciscenko
12.45 - 13.00	D. Paolini	C. Bretti	M. Tramontini
13.00 - 13.15		A. Irto	
13.15 - 14.00	LUNCH		
14.00 - 15.00	SESSIONE POSTER 2: ABC, FOR/TOS, GREEN		

Martedì 8 Settembre 2026 - Pomeriggio

	Bioanalitica (BIO) <i>Auditorium</i>	Scienza delle Separazioni - Massa (SEPMS) <i>Aula 1</i>	Chimica Analitica Forense / Tossicologia (FOR/TOS) <i>Aula 2</i>
15.00 - 15.05		Keynote N. Riboni	Keynote E. Barberis
15.05 - 15.20	N. Kassouf		
15.20 - 15.35	F. Di Nardo	E. Taglioni	E. Alladio
15.35 - 15.50	E. Belforte	S. Palmieri	G. Micalizzi
15.50 - 16.05	R. Shariati	M. Del Bubba	V. Greco
16.05 - 16.20	T. Serra	V. Cinquepalmi	E. Papa
16.20 - 16.35	N. Bagheri	N. Ruin	L. Martina
16.35 - 17.00	COFFEE BREAK		
17.00 - 17.15	C. Scandurra	M. Bianco	I. Bracaglia
17.15 - 17.30	F. Grassi	A. Satira	G. Ferrero
17.30 - 17.45	V. Rondinini	L. Sorarù	E. Castrignanò
17.45 - 18.00		S. Morozzi	R. De Santo

Programma Sintetico



XXXII Congresso Nazionale
Divisione di Chimica Analitica
 6-10 settembre 2026, Venezia

Mercoledì 9 Settembre 2026

08.30 - 09.00	Registrazione dei partecipanti		
09.00 - 09.45	Plenaria 3 - GreenPrep - E. Psillakis <i>Auditorium</i>		
	Sensori e Biosensori (SENS) <i>Auditorium</i>	Scienza delle Separazioni (SEP) <i>Aula 1</i>	Spettroscopia Analitica / Elettroanalitica (SPA/ELE) <i>Aula 2</i>
10.00 - 10.15	M. Gamella	C. M. Montone	M. Giorgetti
10.15 - 10.30	M. Mosquera Ortega	S. Giordani	M. Minella
10.30 - 10.45	M. Abate	M. Galletta	D. Biggio
10.45 - 11.00	I. Iacobellis	D. Coniglio	M. Bonechi
11.00 - 11.30	COFFEE BREAK		
	Sensori e Biosensori (SENS) <i>Auditorium</i>	Scienza delle Separazioni (SEP) <i>Aula 1</i>	Spettroscopia Analitica (SPA) <i>Aula 2</i>
11.30 - 11.45	L. Torsi	V. Termopoli	R. D'Agata
11.45 - 12.00	B. Comegna	D. Corradini	M. C. Sportelli
12.00 - 12.15	D. Sestaioni	G. Pinto	C. Pastura
12.15 - 12.30	S. Gianvittorio	C. Nosengo	F. Bilo
12.30 - 12.45	S. Ventisette	B. Pasquini	L. R. Magnaghi
12.45 - 13.00	A. Marinangeli	E. Trovato	D. Cuffaro
13.00 - 13.15	T. Di Giulio	V. Braghin	C. Passavia
13.15 - 14.00	LUNCH		
14.00 - 15.00	SESSIONE POSTER 3: SENS, SEP, SPA, ALI		
16.00 - 18.00	Gita Sociale		
19.00	Cena Sociale		

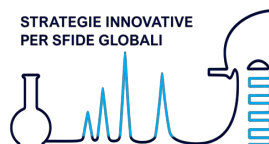
Giovedì 10 Settembre 2026

08.30 - 09.15	Registrazione dei partecipanti		
	Sensori e Biosensori - Elettroanalitica (SENS-ELE) <i>Auditorium</i>	Alimenti e Nutraceutici (ALI) <i>Aula 1</i>	Ambiente e Beni Culturali (ABC) <i>Aula 2</i>
09.15 - 09.30	L. Capelli	C. Bellinghieri	M. Cescon
09.30 - 09.45	P. S. Sfragano	L. Cappellin	T. Chenet
09.45 - 10.00	A. Raucci	F. Eugelio	F. Cristaudo
10.00 - 10.15	D. Muratov	C. G. De Nido	M. H. Belay
10.15 - 10.30	G. E. Franceschi	C. Orecchio	S. Pellegrino
10.30 - 10.45	L. Mazzoni	F. Fantasma	M. Fattobene
10.45 - 11.00	A. Cutaia		M. Ferretti
11.00 - 11.30	COFFEE BREAK		
	Sensori e Biosensori - Elettroanalitica (SENS-ELE) <i>Auditorium</i>	Alimenti e Nutraceutici (ALI) <i>Aula 1</i>	Ambiente e Beni Culturali (ABC) <i>Aula 2</i>
11.30 - 11.45	G. Arrabito	R. Cecire	M. Ricciardi
11.45 - 12.00	M. Lettieri	L. Sforzi	S. Pettenuzzo
12.00 - 12.15	F. Lugli	D. Bozza	L. Rivoira
12.15 - 12.30	G. Cazzador	G. Rizzo	G. Siviero
12.30 - 12.45			D. Peroni
12.45 - 13.10	CHIUSURA CONVEGNO		

Programma

Domenica 6 Settembre

Lunedì 7 Settembre



**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

Domenica 6 Settembre 2026

17.00 - 21.00 **Registrazione dei partecipanti**

19.00 - 21.00 **Cocktail di benvenuto**

Lunedì 7 Settembre 2026

08.30 - 09.00 **Registrazione dei partecipanti**

09.00 - 09.30 **Apertura del Congresso**

09.30 - 10.15 Plenaria 1 – Ambiente – **Prof. Ralf Ebinghaus** - Institute of Coastal Environmental Chemistry, Helmholtz-Zentrum Geesthacht. **“Forever Chemicals’ – PFAS as an analytical challenge caught between benefit and harm”**

10.15 - 10.35 **Premio Giovane Ricercatore: Davide Spanu “Less Is More: Simplifying Routine Elemental Speciation”**

10.35 - 11.05 **COFFEE BREAK**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Chemiometria e Qualità del Dato (CHEMO) – Chair M. Casale e B. Giussani

11.10 - 11.30 **KN-O-CHEMO-01** Chemometric strategies for understanding the role of physical information in near-infrared spectroscopy: penetration depth of the radiation and particle size contribution

Cristina Malegori

11.30 - 11.45 **O-CHEMO-02** A comprehensive free and open app for chemometric modelling

Davide Ballabio

11.45 - 12.00 **O-CHEMO-03** One-Class Modeling in Multi-Source Analytical Chemistry: A Flexible SIMCA-Based Framework

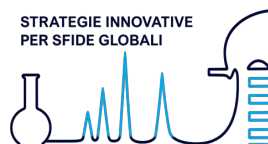
Federico Marini

12.00 - 12.15 **O-CHEMO-04** Data independent acquisition and regions of interest multivariate curve resolution: toward more reliable models for suspect screening analysis in complex samples

Barbara Benedetti

Programma

Lunedì 7 Settembre



**XXXII Congresso Nazionale
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- 12.15 - 12.30 O-CHEMO-05** Back to equilibrium chemistry: using chemometrics to reimagine potentiometric titrations for unusual purposes
Antonio Bova
- 12.30 - 12.45 O-CHEMO-06** The data quality challenge in SERS spectroscopy: experimental design and variance-aware chemometrics
Stefano Fornasaro
- 12.45 - 13.00 O-CHEMO-07** Untargeted Screening of Emerging Contaminants in Wastewater: comparing chromatographic methods through a novel ROI-MCR based approach
Caterina Durante
- 13.00 - 13.15 O-CHEMO-08** Unveiling Chemical Fingerprints of Aging in Balsamic Vinegar of Modena (PGI) with GC-IMS
Samuele Pellacani

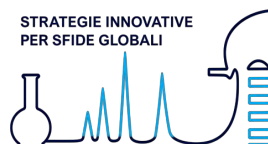
AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Sensori e Biosensori (SENS) – Chair M. Minunni e A. Roda

- 11.10 - 11.30 KN-O-SENS-01** Nanomaterial-based colorimetric analytical devices: challenges and future perspectives
Annalisa Scroccarello
- 11.30 - 11.45 O-SENS-02** Propofol-Induced Inhibition of Horseradish Peroxidase (HRP): Development of an Amperometric Biosensor In Biological Samples
Verdiana Marchianò
- 11.45 - 12.00 O-SENS-03** Streamlined electrochemical miRNA detection through a peptide-based hydrogel surface modification strategy
Alessandra Glovi
- 12.00 - 12.15 O-SENS-04** Eco- Friendly Flexible Electrodes for self-triggered DNA Release
Blanca Cassano
- 12.15 - 12.30 O-SENS-05** Toward all PEDOT:PSS printed wearable biosensors for glucose detection
Luca Sartorelli
- 12.30 - 12.45 O-SENS-06** Portable electrochemical sensing of CFTR function in cystic fibrosis epithelial models for theratyping applications
Antonella Miglione

Programma

Lunedì 7 Settembre



**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

- 12.45 - 13.00 O-SENS-07** Aptamer-mediated activation of CRISPR/Cas12a signal amplification for electrochemical detection of OA
Mattia Carbone
- 13.00 - 13.15 O-SENS-08** Fully 3D-Printed Electrochemical Biosensors for Liquid Biopsy Applications
Panagiota Kalligosfyri

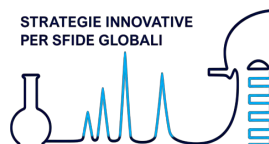
AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Bioanalitica & -omics (BIO-OMICS) – Chair A.L. Capriotti e C. Baggiani

- 11.10 - 11.30 KN-O-BIO-OMICS-01** AF4-UV/MALS Fractionation of Cerebrospinal Fluid Extracellular Vesicles Enables Fraction-Resolved Tracking of Molecular Markers
Valentina Marassi
- 11.30 - 11.45 O-BIO-OMICS-02** Decoding Phospholipid and Oxysterol Signatures in Pancreatic Cancer
Cosima Damiana Calvano
- 11.45 - 12.00 O-BIO-OMICS-03** Miniaturized approach for the analysis of lipid oxidative stress biomarkers in plasma and oral fluid by UHPLC-MS/MS analysis
Francesco Bartolini
- 12.00 - 12.15 O-BIO-OMICS-04** Untargeted UHPLC-Q-Orbitrap-MS/MS metabolomics combined with molecular networking and machine learning for saffron authentication and traceability
Federico Fanti
- 12.15 - 12.30 O-BIO-OMICS-05** Multi-Omic Profiling of Fecal Samples in Idiopathic REM Sleep Behavior Disorder: An Integrated Metabolomic Approach
Nicolò Interino
- 12.30 - 12.45 O-BIO-OMICS-06** Negative-Ion-Mode Lipidomics of Triglycerides Enabled by Aza-Paternò-Büchi Derivatization
Andrea Cerrato
- 12.45 - 13.00 O-BIO-OMICS-07** Resolving tricky lipid isomers by Ion Mobility-MALDI-MS/MS Imaging
Emanuela Salviati

Programma

Lunedì 7 Settembre



**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

- 13.00 - 13.15 O-BIO-OMICS-08** Towards Green Approaches to Sample Preparation for Metabolomics: Ultrasound-Assisted Extraction using Natural Deep Eutectic Solvents (NADES) and UHPLC-Orbitrap HRMS metabolite profiling of foodborne pathogens
Federico Biondi
- 13.15 - 14.00 LUNCH**
- 14.00 - 15.00 SESSIONE POSTER 1: CHEMO, BIO (elenco dei poster da pag. 32)**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Chemiometria e Qualità del Dato (CHEMO) – Chair M. Cocchi e A. Ulrici

- 15.05 - 15.20 O-CHEMO-09** Multivariate investigation of the factors governing rare earth element accumulation patterns in soil-plant systems
Marcella Barbera
- 15.20 - 15.35 O-CHEMO-10** Looking beyond replicates: multivariate error analysis for robust NIR spectroscopy
Barbara Giussani
- 15.35 - 15.50 O-CHEMO-11** Study of headspace: an innovative monitoring approach using MicroNIR/Chemometrics
Marialuisa Ruocco
- 15.50 - 16.05 O-CHEMO-12** Sampling Matters: Structured Subsampling For Scalable Class-Modelling In Spectroscopy Big Data
Vicky Caponigro
- 16.05 - 16.20 O-CHEMO-13** Biofunctional Large-Area Molecular Surfaces for Ultrasensitive Detection in the Early Diagnosis of Cervical Cancer
Valentina Mongelli
- 16.20 - 16.35 O-CHEMO-14** Chemometric treatment of HS-SPME-GC-MS data to investigate volatile profile evolution of sulphite-free sparkling wines under commercial storage conditions
Alessandra Biancolillo

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Spettroscopia Analitica (SPA) – Chair A. Rossi e M. Giorgetti

- 15.00 - 15.20** **KN-O-SPA-01** Advanced quantification strategies applied to XRF spectroscopy for metal determination in complex matrices
Walter Giurlani
- 15.20 - 15.35** **O-SPA-02** Waste to Energy: Analytical characterization and valorisation of Spent Activated Carbons as electrocatalysts for ORR
Claudia Giovani
- 15.35 - 15.50** **O-SPA-03** XPS and LC-MS characterization of artificial saliva droplets on common substrates: the role of surfactants
Rosaria Anna Picca
- 15.50 - 16.05** **O-SPA-04** Gellan Gum hydrogels loaded with tannic Acid or pomegranate peel extract for cartilage regeneration: analytical characterization of green bioactive materials
Elvira De Giglio
- 16.05 - 16.20** **O-SPA-05** Technique-dependent oxidation metrics in Graphene Family Materials: revisiting the meaning of the O/C ratio as an absolute probe of the oxidation level
Francesco Pellegrino
- 16.20 - 16.35** **O-SPA-06** Surface functionalization of Marble waste with Stearic Acid investigated by XPS
Giulio Casula

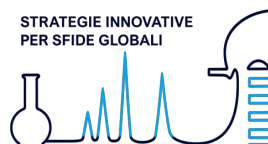
AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Bioanalitica & -omics (BIO-OMICS) – Chair S. Furlanetto e P. Reschiglian

- 15.00 - 15.05** **Consegna del Premio Cristina Giovannoli 2026 - Gruppo Tematico di Bioanalitica**
- 15.05 - 15.20** **O-BIO-OMICS-09** LFQ nano-UHPLC/Orbitrap MS Analysis Reveals Antioxidant Reprogramming Induced by ASX-Loaded Nanoparticles in Retinal Cells
Jessica Brandi
- 15.20 - 15.35** **O-BIO-OMICS-10** From the panel to the liver: development of a lateral flow immunoassay for the differential diagnosis of European Brown Hare Syndrome virus and Rabbit Haemorrhagic Disease virus-2
Simone Cavallera
- 15.35 - 15.50** **O-BIO-OMICS-11** Paper-based colorimetric device integrating 2D-transition metal dichalcogenides for the nanozymatic-sensing of glutathione in saliva
Paolo Di Battista

Programma

Lunedì 7 Settembre



**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
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- 15.50 - 16.05 O-BIO-OMICS-12** Development and validation of an HPLC-PDA method for the quantification of the ADC 1959-sss/DM4 in biological fluids and tissues
Marcello Locatelli
- 16.05 - 16.20 O-BIO-OMICS-13** Electrochemical Approach for PCR-Free Detection of Mi-RNA Biomarkers for future implementation in Point of Care Device
Sabrina Conoci
- 16.20 - 16.35 O-BIO-OMICS-14** NanoMIPs can sandwich too: ELISA-like assays for protein detection
Valentina Testa
- 16.35 - 17.00 COFFEE BREAK**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Chemiometria e Qualità del Dato (CHEMO) – Chair M. Cocchi e A. Ulrici

- 17.00 - 17.15 O-CHEMO-15** Geographical authentication of agri-food products through spectroscopic and spectrometric analysis and data fusion: an integrated approach for EVOOs and Sangiovese wines
Gabriella Tamasi
- 17.15 - 17.30 O-CHEMO-16** doetools: An Open-Source, Workflow-Oriented Python Library for Design of Experiments
Lorenzo Teja
- 17.30 - 17.45 O-CHEMO-17** Untargeted authentication of italian honeys by eem fluorescence spectroscopy and chemometric analysis
Monica Casale

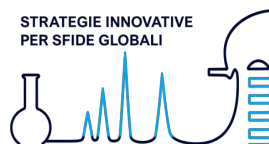
AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Spettroscopia Analitica (SPA) – Chair A. Rossi e M. Giorgetti

- 17.00 - 17.15 O-SPA-07** SWIR Hyperspectral Imaging for Small Microplastics ($\leq 100 \mu\text{m}$) Detection: Imaging Challenges and Perspectives for Method Validation
Marta Barbaresi
- 17.15 - 17.30 O-SPA-08** NIR Spectroscopy for Real-Time Monitoring of Organozinc Reaction Systems
Giordano Putzolu

Programma

Lunedì 7 Settembre



XXXII Congresso Nazionale
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- 17.30 - 17.45 O-SPA-09** Improvements in the Quality Control of Coagulation Factor Concentrates by MicroNIR and Chemometrics
Cristina Adriano

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Bioanalitica & -omics (BIO-OMICS) – Chair S. Furlanetto e P. Reschiglian

- 17.00 - 17.15 O-BIO-OMICS-15** From in silico screening to confident assay design: AccePep for automated species-specific marker peptide discovery
Giovanni Ventura
- 17.15 - 17.30 O-BIO-OMICS-16** Sample handling and HRMS data acquisition in the optimization of untargeted serum lipidomics and applications
Elisa Robotti
- 17.30 - 17.45 O-BIO-OMICS-17** DNA-Binding Protein-Controlled Synthetic Molecular Operations for Programmable Biosensing and CRISPR Signal Amplification
Elena Spezzani
- 17.45 - 18.00 O-BIO-OMICS-18** Intracellular metabolic response to glutamine deprivation in NSCLC cell lines: an untargeted UHPLC-HRMS and chemometric study
Giovanni Solarino
- 18.00 - 19.00 ASSEMBLEA DIVISIONALE**

Martedì 8 Settembre 2026

08.30 - 09.00 **Registrazione dei partecipanti**

09.00 - 09.45 Plenaria 2 – Biosensori – **Prof.ssa Susana Campuzano Ruiz** - Complutense University of Madrid. **“Frontier Bioelectroanalytical Technologies: Revolutionizing How We Sense Health”**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori (SENS) – Chair M. Giannetto e L. Torsi

09.55 - 10.15 **KN-O-SENS-09** Next-Generation Biosensing Technologies for the Detection of Infectious Agents
Fabio Di Francesco

10.15 - 10.30 **O-SENS-10** Machine Learning-Assisted Electrochemical Fingerprinting for Multiclass Classification of Cancer Cell Lines Using Disposable Paper-Based Sensors
Wanda Cimmino

10.30 - 10.45 **O-SENS-11** Development of a Wearable Electrochemical Platform for On-Field Detection of Oxalate in Spinach within a Precision Agriculture Framework
Vincenzo Mazzaracchio

10.45 - 11.00 **O-SENS-12** Calibration of electronic nose sensor arrays using multivariate models
Cristian Maffezzoni

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Ambiente e Beni Culturali (ABC) – Chair F. Modugno e C. Minero

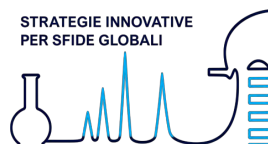
09.55 - 10.15 **KN-O-ABC-01** Direct photolysis of oxolinic acid in surface waters: the role of divalent cations and antioxidants.
Luca Carena

10.15 - 10.30 **O-ABC-02** Long-chain PFAS Adsorption onto Polypropylene Falcon Tubes: From Analytical Bias to a Potential Extraction Approach
Erica Ceccardi

10.30 - 10.45 **O-ABC-03** Direct determination of PFAS (GenX) by ion-transfer voltammetry at micro-interfaces between two immiscible electrolyte solutions (μ ITIES)
Salvatore Barreca

Programma

Martedì 8 Settembre



**XXXII Congresso Nazionale
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- 10.45 - 11.00 O-ABC-04** ICP-MS and Antarctica: lead isotopic composition as dust tracer in the Antarctic plateau
Elisa Cerri

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Green Analytical Chemistry (GREEN) – Chair G. Adami e R. Biesuz

- 10.00 - 10.15 O-GREEN-01** Toward a Green Sample Preparation of Marine Sediments Using Modified Coffee Brewing Systems
Julia Gambetta Vianna
- 10.15 - 10.30 O-GREEN-02** A High-Precision Nanoliter Liquid Handler for Automated Analytical and Microfluidic Systems
Giacomo Musile
- 10.30 - 10.45 O-GREEN-03** A butyl acetate-based dispersive liquid-liquid microextraction method for sustainable pesticide analysis in water
Susanna Della Posta
- 10.45 - 11.00 O-GREEN-04** Tailoring eutectic solvent mixtures physicochemical properties via DoE to optimize polyphenol extraction from blueberry by-products
Federica Alchera
- 11.00 - 11.30 COFFEE BREAK**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori (SENS) – Chair M. Giannetto e L. Torsi

- 11.30 - 11.45 O-SENS-13** Functional PNA probes for electrochemical magneto-genoassays for simultaneous detection of multiple allergens in food
Simone Fortunati
- 11.45 - 12.00 O-SENS-14** Microneedle-based Electrochemical Immunosensor for IL-18: towards Minimally Invasive Diagnosis of Amyotrophic Lateral Sclerosis
Alessandro Puzzello
- 12.00 - 12.15 O-SENS-15** Yes/No Screening of Per- and Polyfluoroalkyl Substances in Drinking Water: A Supramolecular Impedimetric Sensor
Giulia Moro

- 12.15 - 12.30 O-SENS-16** UV laser-induced graphene paper-aptasensors for insulin detection
Ida Valeria Di Cristoforo
- 12.30 - 12.45 O-SENS-17** From laboratory innovation to market-oriented diagnostics: a wearable paper-based sensor for sweat chloride determination in cystic fibrosis
Luca Fiore
- 12.45 - 13.00 O-SENS-18** A new 3D-printing-based approach for mass production of laser-reduced graphene oxide (bio)sensors
Davide Paolini

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Ambiente e Beni Culturali (ABC) – Chair F. Modugno e C. Minero

- 11.30 - 11.45 O-ABC-05** Synthesis of maltodextrin polymers for the treatment of natural waters contaminated by arsenic and antimony
Marco Ginepro
- 11.45 - 12.00 O-ABC-06** High-Resolution Lead Isotope Ratio Analysis by ESI-Orbitrap: Method Validation
Damiano Monticelli
- 12.00 - 12.15 O-ABC-07** The gradual melting of glaciers increases the presence of ice-nucleating particles through the decomposition of organic matter in Arctic soils
Stefano Frassati
- 12.15 - 12.30 O-ABC-08** Pushing the boundaries of quadrupole single-particle ICP-MS for Si/Al atomic ratio determination in Antarctic particulate matter
Matilde Mataloni
- 12.30 - 12.45 O-ABC-09** Investigation of the adsorption capacity of a novel graphene-based nanohybrid platform for levofloxacin
Chiara Abate
- 12.45 - 13.00 O-ABC-10** Investigating GLDA and MGDA interactions with environmentally significant cations.
Clemente Bretti
- 13.00 - 13.15 O-ABC-11** A natural polyphenol as a green M2+ chelating agent in environmental and industrial matrices
Anna Irto

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Green Analytical Chemistry (GREEN) – Chair G. Adami e R. Biesuz

- 11.30 - 11.45** **O-GREEN-05** From Sensing to Remediation: Starch-Based Bioplastics as Sustainable Adsorbents for Wastewater Dyes Removal
Raffaella Biesuz
- 11.45 - 12.00** **O-GREEN-06** Elemental analysis of critical raw materials in Black Mass by TXRF
Alessandra Zanoletti
- 12.00 - 12.15** **O-GREEN-07** Green MicroNIR/Chemometrics Approach for Trihalomethanes Monitoring in Water
Tatsiana Pobat
- 12.15 - 12.30** **O-GREEN-08** Fast Ultra-Trace Analysis of Trifluoroacetic and Triflic Acids in Drinking and Groundwater
Carlo Crescenzi
- 12.30 - 12.45** **O-GREEN-09** Degradation of emerging contaminants in concentrated streams using UV/sulfite/iodide and UV/hydrogen peroxide treatment trains
Iván Sciscenko
- 12.45 - 13.00** **O-GREEN-10** Advances in sustainable agriculture: investigating the composition and the environmental behaviour of a biocompatible agricultural product
Michela Tramontini
- 13.15 - 14.00** **LUNCH**
- 14.00 - 15.00** **SESSIONE POSTER 2: ABC, FOR/TOS, GREEN (elenco dei poster da pag. 34)**

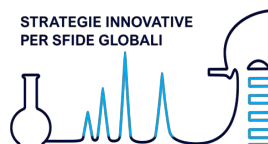
AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Bioanalitica (BIO) – Chair S. Cinti e M. Mirasoli

- 15.05 - 15.20** **O-BIO-01** Design of experiments-based optimization of a Cu-MOF nanozyme chemiluminescent system for hydrogen peroxide detection
Nicholas Kassouf
- 15.20 - 15.35** **O-BIO-02** Colloidal carbon nanoparticles as label in lateral flow immunoassay
Fabio Di Nardo
- 15.35 - 15.50** **O-BIO-03** Activity based (bio)sensor for the monitoring of MutyH DNA glycosylase activity
Erica Belforte

Programma

Martedì 8 Settembre



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- 15.50 - 16.05 O-BIO-04** BESIDES (BiomolEcular SIgnature DEtection System): a lab-on-chip-based analytical platform for life biomarkers detection in astrobiology investigations
Rojin Shariati
- 16.05 - 16.20 O-BIO-05** Rational design of multiplex Nucleic Acid Lateral Flow Assays for improved miRNA selectivity
Thea Serra
- 16.20 - 16.35 O-BIO-06** Topology-gated CRISPR-Cas12a activity enables topoisomerase sensing and inhibitor screening
Neda Bagheri

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Scienza delle Separazioni - Massa (SEPMS) – Chair B. Roda e F. Gosetti

- 15.00 - 15.20 KN-O-SEPMS-01** Beyond single-platform analysis: complementary separation and mass spectrometry strategies for IAS and NIAS characterization
Nicolò Riboni
- 15.20 - 15.35 O-SEPMS-02** A Software-Driven Suspect Screening LC-HRMS Workflow for Endogenous Modified Nucleosides
Enrico Taglioni
- 15.35 - 15.50 O-SEPMS-03** Experimental design of full-scan acquisition parameters for DDA in untargeted orbitrap metabolomics in plant matrices
Sara Palmieri
- 15.50 - 16.05 O-SEPMS-04** A Two-Step Prioritization Framework for the Nontargeted LC-HRMS Analysis of Contaminants of Environmental Concern and Dissolved Organic Matter in a Drinking Water Treatment Plant
Massimo Del Bubba
- 16.05 - 16.20 O-SEPMS-05** A multi-analytical strategy based on RPLC-PDA and RPLC-ESI-TWIMS-MS/MS for the unambiguous identification of isomeric carotenoids
Valeria Cinquepalmi
- 16.20 - 16.35 O-SEPMS-06** Advanced VOC Profiling in Recycled Plastics Using HS-SPME/GC×GC-MS
Nicola Ruin

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Chimica Analitica Forense / Tossicologia (FOR/TOS) – Chair M. Sergi e F. Bianchi

- 15.00 - 15.20** **KN-O-FOR/TOS-01** Decoding the Human Exposome: Advanced GC×GC-MS Strategies to Understand Healthy Aging
Elettra Barberis
- 15.20 - 15.35** **O-FOR/TOS-02** CACTUS: Chemometrics and Analytical Chemistry Tools - An Open-Source Software for Forensic, Educational, and Research Data Analysis
Eugenio Alladio
- 15.35 - 15.50** **O-FOR/TOS-03** Monitoring of Pesticides in Cannabis sativa L through Chromatographic approaches with Particular Emphasis on Miniaturized and Automated Extraction
Giuseppe Micalizzi
- 15.50 - 16.05** **O-FOR/TOS-04** Magnetic molecularly imprinted nanoparticles for automated fentanyl determination by HPLC-MS/MS
Valentina Greco
- 16.05 - 16.20** **O-FOR/TOS-05** Innovative forensic approach for the detection of gunshot residues by NIR spectroscopy and multivariate analysis
Elena Papa
- 16.20 - 16.35** **O-FOR/TOS-06** Source apportionment of PM2.5 oxidative potential in Southern Italy: insights from DTT and AA assays
Laura Martina
- 16.35 - 17.00** **COFFEE BREAK**

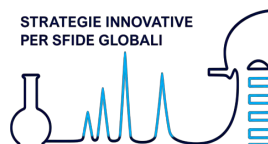
AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Bioanalitica (BIO) – Chair S. Cinti e M. Mirasoli

- 17.00 - 17.15** **O-BIO-07** Coupling cell-free genetic circuits with HCR for enhanced, enzyme-free biomarker sensing
Cecilia Scandurra
- 17.15 - 17.30** **O-BIO-08** Dynamic Control of Enzyme-Inhibitor Complexes via input-mediated Synthetic Gene Circuits
Francesco Grassi

Programma

Martedì 8 Settembre



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- 17.30 - 17.45 O-BIO-09** AF4-MD Characterization of Bio-Conjugation on SiNPs for highly sensitive TCL-POCT Applications
Virginia Rondinini

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Scienza delle Separazioni - Massa (SEPMS) – Chair B. Roda e F. Gosetti

- 17.00 - 17.15 O-SEPMS-07** Integrating RPLC-HRMS and Bioinformatics to Uncover Leishmania Species Marker Peptides
Mariachiara Bianco
- 17.15 - 17.30 O-SEPMS-08** Urinary Trace Element Profiling in Leukemia Patients by ICP-MS: Method Development and Validation for a Case-Control Study
Antonella Satira
- 17.30 - 17.45 O-SEPMS-09** A Novel HPLC-APCI-MS/MS Method for the Extraction and Quantification of Targeted OH-PAHs in Animal Tissues
Luca Sorarù
- 17.45 - 18.00 O-SEPMS-10** Non-targeted LC-HRMS as a powerful tool for the discrimination of wheat samples from different varieties and geographical origin
Sara Morozzi

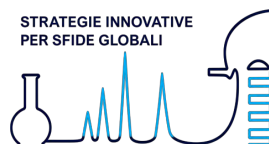
AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Chimica Analitica Forense / Tossicologia (FOR/TOS) – Chair M. Sergi e F. Bianchi

- 17.00 - 17.15 O-FOR/TOS-07** Rapid Screening of New Psychoactive Substances Using ASAP-IMS-HRMS: An Ambient Ionization and Ion Mobility Approach
Ilenia Bracaglia
- 17.15 - 17.30 O-FOR/TOS-08** Orbitrap HRMS-based workflow for hair analysis to reveal hidden patterns of NPS exposure
Giorgia Ferrero
- 17.30 - 17.45 O-FOR/TOS-09** A Portable SiMoLS Platform to Address Emerging NPS Threats in Drug- Related Death Investigations
Erika Castrignanò

Programma

Martedì 8 Settembre



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- 17.45 - 18.00** **O-FOR/TOS-10** Determination of Priority Bisphenol A Alternatives in Urine:
Development and Validation of an Analytical Method Based on PARC Prioritization
Riccardo De Santo

Mercoledì 9 Settembre 2026

08.30 - 09.00 Registrazione dei partecipanti

09.00 - 09.45 Plenaria 3 – GreenPrep – **Prof.ssa Elia Psillakis** - Technical University of Crete.
“The ten misunderstandings of green and sustainable analytical chemistry”

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori (SENS) – Chair O. Abollino e F. Ricci

10.00 - 10.15 **O-SENS-19** Frontier Electroanalytical Biosensing for Epitranscriptomic and Telomerase Hallmarks of Cancer
María Gamella

10.15 - 10.30 **O-SENS-20** Bamboo-Derived Biochar Coupled with Carbon Nanotubes for Sensitive Electrochemical Detection of Bisphenol A
Monica Mosquera Ortega

10.30 - 10.45 **O-SENS-21** Sustainable 3D-Printed Electrochemical Sensors: from Manufacturing to Applications in Food Analysis
Michele Abate

10.45 - 11.00 **O-SENS-22** Bio-Electronic Sensor for Early Xylella Fastidiosa Detection
Ilaria Iacobellis

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Scienza delle Separazioni (SEP) – Chair M. Careri e T. Cataldi

10.00 - 10.15 **O-SEP-01** Green Click Chemistry-Derived Monolithic Sorbents for Automated In-Tube SPME-LC-MS/MS Analysis
Carmela Maria Montone

10.15 - 10.30 **O-SEP-02** AF4-Multidetector for the Characterization, Isolation and Downstream Application of Royal Jelly-Derived Nanocarriers
Stefano Giordani

10.30 - 10.45 **O-SEP-03** Static headspace enantioselective comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry for Citrus essential oil analysis
Micaela Galletta

10.45 - 11.00 **O-SEP-04** HILIC-ESI-HRMS characterization of free amino acids in barattiere (Cucumis melo L.) fruits
Davide Coniglio

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Spettroscopia Analitica / Elettroanalitica (SPA/ELE) – Chair M. Innocenti e G. Spoto

- 10.00 - 10.15 O-SPA/ELE-01** Prussian Blue structures for metal-Ion batteries: Analysis by X-ray techniques
Marco Giorgetti
- 10.15 - 10.30 O-SPA/ELE-02** $\text{Ti}_3\text{C}_2\text{T}_x$ MXenes in Li-S Batteries to Balance Polysulphide Adsorption and Li_2S Deposition
Marco Minella
- 10.30 - 10.45 O-SPA/ELE-03** An analytical assessment of methods for determining hydrogen diffusion in ARMCO iron
Deborah Biggio
- 10.45 - 11.00 O-SPA/ELE-04** Electroanalytical characterisation of ruthenium-based molecular catalysts for green hydrogen production
Marco Bonechi
- 11.00 - 11.30 COFFEE BREAK**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori (SENS) – Chair O. Abollino e F. Ricci

- 11.30 - 11.45 O-SENS-23** Sensing Regimes Governing Potentiometric Immunoassays
Luisa Torsi
- 11.45 - 12.00 O-SENS-24** Magnetic carbon black modified with molecularly imprinted polymer for the selective extraction and determination of carvacrol
Bianca Comegna
- 12.00 - 12.15 O-SENS-25** Ultrafast Polymerization of Molecularly Imprinted Polyserotonin for advanced biosensing
Davide Sestaioni
- 12.15 - 12.30 O-SENS-26** Reagentless Electrochemical Sensing Platforms Based on Reagent-Preloaded 3D-Printed Microcells and Screen-Printed Electrodes
Stefano Gianvittorio

- 12.30 - 12.45** **O-SENS-27** Rationally Designed Multivalent Polynorepinephrine Molecularly Imprinted Nanoassemblies as Green Synthetic Receptors for Ultrasensitive SPR Detection of Interleukin-17A
Simone Ventisette
- 12.45 - 13.00** **O-SENS-28** Molecularly Imprinted Polymer Nanoparticles-Based Plasmonic Sensor for Rapid Pesticide Detection
Alice Marinangeli
- 13.00 - 13.15** **O-SENS-29** Visible-light activated MIP polymerization on photoiniferter-modified electrode surface for electrochemical sensing
Tiziano Di Giulio

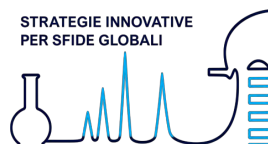
AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Scienza delle Separazioni (SEP) – Chair M. Careri e T. Cataldi

- 11.30 - 11.45** **O-SEP-05** Lignin-Derived Magnetic Sorbents for Dispersive Magnetic Solid-Phase Microextraction (DMSPME) of Xenobiotic Compounds in Water Samples
Veronica Termopoli
- 11.45 - 12.00** **O-SEP-06** Untargeted and targeted metabolomic study of plant secondary metabolites in selenium biofortified cabbage (*Brassica oleracea*)
Danilo Corradini
- 12.00 - 12.15** **O-SEP-07** LC-MS/MS and MALDI-TOF Strategies for Biofluid Fingerprinting and Species Identification from Blood Traces
Gabriella Pinto
- 12.15 - 12.30** **O-SEP-08** A Greener Workflow for the Extraction and Analysis of Carotenoids from Mango Peel Waste
Chiara Nosengo
- 12.30 - 12.45** **O-SEP-09** Risk-Based Approach and Design of Experiments in the development of a Capillary Isoelectric Focusing Analytical Procedure Platform for the charge heterogeneity characterization of monoclonal antibodies
Benedetta Pasquini
- 12.45 - 13.00** **O-SEP-10** Multi-analytical approaches for the comprehensive chemical characterization of *Jasminum grandiflorum* L. absolute
Emanuela Trovato

Programma

Mercoledì 9 Settembre



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- 13.00 - 13.15 O-SEP-11** Integrated dual-split high capacity sorptive extraction and chemometrics reveal extraction-dependent volatile signatures in *Hypericum perforatum*
Valentina Braghin

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Spettroscopia Analitica (SPA) – Chair M. Innocenti e G. Spoto

- 11.30 - 11.45 O-SPA-10** Plasmonic Liquid Biopsy for the Detection and Quantification of Circulating MicroRNAs at Ultra-Low Levels in Brain Cancer Patients
Roberta D'Agata
- 11.45 - 12.00 O-SPA-11** Spectroscopic characterization of zinc/copper basic carbonates as catalyst precursors for CO₂ hydrogenation
Maria Chiara Sportelli
- 12.00 - 12.15 O-SPA-12** A Microfluidic Assay for Tumor DNA Capture Based on PNA-Functionalized Magnetic Beads
Chiara Pastura
- 12.15 - 12.30 O-SPA-13** Liquid Aerosol Sampling Meets TXRF: A New Strategy for Airborne PM Characterization
Fabjola Bilo
- 12.30 - 12.45 O-SPA-14** In silico optimization of tunable pH-indicating dye mixtures
Lisa Rita Magnaghi
- 12.45 - 13.00 O-SPA-15** Colorimetric Approaches for Dopamine Detection in Pharmaceutical Formulations and Food Waste Matrices
Doretta Cuffaro
- 13.00 - 13.15 O-SPA-16** T-XRF as a Rapid Quantitative Tool for Metal Speciation in Incinerator Bottom Ash: A Methodological Comparison with ICP-OES
Cristiana Passavia
- 13.15 - 14.00 LUNCH**
- 14.00 - 15.00 SESSIONE POSTER 3: SENS, SEP, SPA, ALI (elenco dei poster da pag. 39)**
- 16.00 - 18.00 Gita Sociale**
- 19.00 Cena Sociale**

Giovedì 10 Settembre 2026

08.30 - 09.15 Registrazione dei partecipanti

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori - Elettroanalitica (SENS-ELE) – Chair G. Marrazza e F. Arduini

- 09.15 - 09.30** **O-SENS-ELE-01** Nanoscale Compartmentalization of CRISPR-Cas12a on DNA Origami for Orthogonal Multiplexed DNA Detection
Luca Capelli
- 09.30 - 09.45** **O-SENS-ELE-02** Upcycling of soot nanoparticles into Au hybrid nanocomposites for electrochemical sensing applications
Patrick Severin Sfragano
- 09.45 - 10.00** **O-SENS-ELE-03** Thermodynamically Guided Temperature Control for Electrochemical Nucleic Acids Biosensing
Ada Raucci
- 10.00 - 10.15** **O-SENS-ELE-04** Fast and flexible resistive gas sensors on quasi-1D Zr_{1-x}Ti_xS₃ nanowires
Dmitry Muratov
- 10.15 - 10.30** **O-SENS-ELE-05** From Lab to Field: NEMO Device Optimization for Amperometric Free Chlorine Quantification
Guglielmo Emanuele Franceschi
- 10.30 - 10.45** **O-SENS-ELE-06** Voltammetric Determination of Emerging Pharmaceutical Contaminants: Application to Synthetic Progestins
Letizia Mazzoni
- 10.45 - 11.00** **O-SENS-ELE-07** Targeted sensing of L-Tryptophan in biological fluids using Imprinted Polypyrrole-based Screen-Printed Electrodes
Alessandra Cutaia

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Alimenti e Nutraceutici (ALI) – Chair F. Della Pelle e C.D. Calvano

- 09.15 - 09.30** **O-ALI-01** Development of a novel workflow for parallel analysis of mineral oil and PAHs in food additives derived from fats and oils using off-line HPLC-GC×GC-FID/TOFMS
Carlo Bellinghieri
- 09.30 - 09.45** **O-ALI-02** CI-IMS-TOF opens new horizons in food science and technology
Luca Cappellin
- 09.45 - 10.00** **O-ALI-03** Untargeted UHPLC-HRMS Metabolomics for Substrate-Driven Profiling of Water Kefir Fermentation
Fabiola Eugelio
- 10.00 - 10.15** **O-ALI-04** A contamination-controlled analytical approach for the determination and characterization of anthropogenic microparticles in sea salts
Cristina Grazia De Nido
- 10.15 - 10.30** **O-ALI-05** Image-based modelling of three-way data for food authentication: butter case study
Ciro Orecchio
- 10.30 - 10.45** **O-ALI-06** Nutraceutical Potential of Cannabis sativa L. var. Kompolti Infusion: Polyphenolic Profile, Antioxidant Capacity and Neuroprotective Effects
Francesca Fantasma

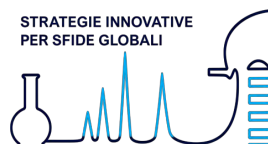
AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Ambiente e Beni Culturali (ABC) – Chair A. Cappiello e C. De Stefano

- 09.15 - 09.30** **O-ABC-12** Investigation of metal adsorption from aqueous solutions onto marine waste-derived hydroxyapatites
Mirco Cescon
- 09.30 - 09.45** **O-ABC-13** Adsorption of Heavy Metals from Water Matrices using Geopolymer-Based Adsorbent Materials
Tatiana Chenet
- 09.45 - 10.00** **O-ABC-14** LC-HRMS non-target screening in a tropical megacity river and aquaculture: a complementary SPE approach
Federico Cristaudo

Programma

Giovedì 10 Settembre



**XXXII Congresso Nazionale
Divisione di Chimica Analitica**
6-10 settembre 2026, Venezia

- 10.00 - 10.15 O-ABC-15** Untargeted UPLC-HRMS and multivariate statistical analysis: A combined approach for investigating contaminants of emerging concern in aquatic systems
Masho Hilawie Belay
- 10.15 - 10.30 O-ABC-16** New Frontiers in Fenton Chemistry: Integrating Disinfection and Decontamination Through Oxidation by Performic Acid
Simone Pellegrino
- 10.30 - 10.45 O-ABC-17** Decoding geochemical availability and blue carbon dynamics in Marine Protected Areas: the case of Tremiti Islands
Martina Fattobene
- 10.45 - 11.00 O-ABC-18** Development and validation of an accurate GC-MS method for the characterisation of the *Solanum lycopersicum* volatilome under biotic stress
Marysol Ferretti
- 11.00 - 11.30 COFFEE BREAK**

AUDITORIUM DANILO MAINARDI – EDIFICIO ALFA

Sessione Parallela: Sensori e Biosensori - Elettroanalitica (SENS-ELE) – Chair G. Marrazza e F. Arduini

- 11.30 - 11.45 O-SENS-ELE-08** Sensing at interfaces: adding spatiotemporal control to label-free electrochemical analyses
Giuseppe Arrabito
- 11.45 - 12.00 O-SENS-ELE-09** Capturing Chronic Inflammation with a Simple Blood Drop: An Electrochemical Biosensor for Haptoglobin
Mariagrazia Lettieri
- 12.00 - 12.15 O-SENS-ELE-10** On-site differentiation of legal and illicit cannabis using a field-deployable electrochemical sensing device
Filippo Lugli
- 12.15 - 12.30 O-SENS-ELE-11** Cardboard-Based Laser-Induced Graphene Sensors for Sustainable Histamine Monitoring in Real Food Samples
Giulia Cazzador

AULA 1 – EDIFICIO EPSILON

Sessione Parallela: Alimenti e Nutraceutici (ALI) – Chair F. Della Pelle e C.D. Calvano

- 11.30 - 11.45** **O-ALI-07** Multi-analytical profiling of controlled coffee fermentation for aroma modulation and Robusta quality improvement
Riccardo Cecire
- 11.45 - 12.00** **O-ALI-08** Experimental Design to optimize protocols for the extraction and analytical detection of microplastics in lipid-rich food matrices
Laura Sforzi
- 12.00 - 12.15** **O-ALI-09** Valorization of Fruit Waste through Spectrophotometric Assays and Untargeted UHPLC-HRMS
Desiree Bozza
- 12.15 - 12.30** **O-ALI-10** Multimodal Analytical Characterization of Spray-Congeaed EGCG Microparticles: Stability Enhancement, Controlled Release and Chemometric Validation
Gaia Rizzo

AULA 2 – EDIFICIO EPSILON

Sessione Parallela: Ambiente e Beni Culturali (ABC) – Chair A. Cappiello e C. De Stefano

- 11.30 - 11.45** **O-ABC-19** A sustainable method for the determination of BTEX in the atmosphere by Headspace GC-FID
Maria Ricciardi
- 11.45 - 12.00** **O-ABC-20** Non-Target Screening and Risk Assessment for Safe Rainwater Reuse in Protected Agriculture
Silvia Pettenuzzo
- 12.00 - 12.15** **O-ABC-21** Analytical assessment of microplastic occurrence along the European water cycle continuum
Luca Rivoira
- 12.15 - 12.30** **O-ABC-22** A Low-Viscosity Sample Pretreatment Methodology for Crystalline Quartz Quantification in Viscous Pastes
Giacomo Siviero
- 12.30 - 12.45** **O-ABC-23** Solutions for direct analysis in air: from VOCs to metals. An introduction to the Tofwerk technology
Daniela Peroni
- 12.45 - 13.10** **CHIUSURA CONVEGNO**

SESSIONI POSTER

SESSIONE POSTER 1	Lunedì 7 Settembre 14.00 - 15.00	CHEMO Chemiometria e Qualità del Dato; BIO Bioanalitica
SESSIONE POSTER 2	Martedì 8 Settembre 14.00 - 15.00	ABC Ambiente e Beni Culturali; FOR/TOS Chimica Analitica Forense / Tossicologia; GREEN Green Analytical Chemistry
SESSIONE POSTER 3	Mercoledì 9 Settembre 14.00 - 15.00	SENS Sensori e Biosensori; SEP Scienza delle Separazioni; SPA Spettroscopia Analitica; ALI Alimenti e Nutraceutici

ELENCO DEI CONTRIBUTI POSTER

Chemiometria e Qualità del Dato (CHEMO)

SESSIONE POSTER 1 Lunedì 7 Settembre 14.00 - 15.00

P-CHEMO-01	Making Soil Chemistry Visible: Chemometric Maps as Visual Tools for Translating Complex Soil Data into Soil Literacy	<u>M. Barbera</u>
P-CHEMO-02	Framing variability of stress states in individuals by high frequency acquisition of digital biomarkers from wearable sensor devices and Self Organizing Maps: base for reasoned biofluid discrete sampling and analysis of chemical stress marker	<u>P. Barbieri</u>
P-CHEMO-03	A Fused Approach Using Ion Mobility Spectrometry and Spectroscopy for Honey Authentication	<u>R. Barbieri</u>
P-CHEMO-04	Tackling the water fingerprinting riddle pairing EIS and chemometrics	<u>A. Bova</u>
P-CHEMO-05	A proof of concept for the detection of emerging contaminants in wastewater using portable spectroscopy and MCR-ALS	<u>M. Cocchi</u>
P-CHEMO-06	Rapid and non-destructive authentication of Specialty Coffee by Near-Infrared Hyperspectral Imaging	<u>G. Foca</u>
P-CHEMO-07	From Lab to Field: Multivariate Control Chart implementation in NEMO Device for Water Quality Monitoring	<u>G.E. Franceschi</u>

P-CHEMO-08	Exploring aging-related differences in Balsamic Vinegar of Modena PGI by a fused chromatographic and spectroscopic approach	<u>G. Gazzoli</u>
P-CHEMO-09	Maximizing Sensitivity for non target pollutant analysis in LC-HRMS-Orbitrap: a Design of Experiments (DoE) study	<u>S. Licen</u>
P-CHEMO-10	Stochastic and Ensemble-Averaged Affinity-Binding Regimes: A Coexisting Framework	<u>E. Macchia</u>
P-CHEMO-11	Variable Selection Driven Transition from Untargeted to Targeted Metabolomics of HCC Biomarkers	<u>V. Caponigro</u>
P-CHEMO-12	Assessing penetration limits in near-infrared spectral imaging: in-depth chemical mapping	<u>P. Oliveri</u>
P-CHEMO-13	An experimental design approach for the development of curcumin-loaded zein/caseinate films	<u>R.A. Picca</u>
P-CHEMO-14	The Distribution of Rare Earth Elements and Heavy Metals in Marine Sediments in the Coastal Area of the Gela Industrial District (Southern Sicily, Italy)	<u>C. Cucolo</u>

Bioanalitica (BIO)
SESSIONE POSTER 1 Lunedì 7 Settembre 14.00 - 15.00

P-BIO-01	Oxidized gum Arabic/gelatin hydrogels as tunable scaffolds for 3D pancreatic tumor organoid culture	<u>L. Anfossi</u>
P-BIO-02	Gelatin as Macromonomer in Solid Phase Synthesis of nanoMIPs	<u>C. Baggiani</u>
P-BIO-03	Metal Complexation of Tuvusertib and Benzosertib anticancer agents for the Rational Design of Liposomal formulations	<u>M. Bellomo</u>
P-BIO-04	LC-MS/MS-Based Proteomics Identifies mtDNA-Dependent Protein Signatures of Breast Cancer Metastasis	<u>D. Cecconi</u>
P-BIO-05	HRMS-based untargeted metabolomics profiling of lung epithelial cells exposed to antibiotic transformation products	<u>F. Dal Bello</u>
P-BIO-06	Integrated metabolomics and lipidomics characterization of intracellular and extracellular compartments in drug-sensitive and multidrug-resistant cell models	<u>A. Di Bernardo</u>
P-BIO-07	Trace element imbalances in Chronic Kidney Disease (CKD) patients undergoing dialysis: the role of hemodialysis treatment as an environmental factor	<u>A. Fabbris</u>

P-BIO-08	Hyaluronic Acid Crosslinked Films as Antibiotic Delivery Systems for Chronic Wound Healing	<u>N. Gatti</u>
P-BIO-09	An optimized workflow for untargeted serum lipidomics: impact of sample handling and acquisition strategies	<u>A. Ghignone</u>
P-BIO-10	Paper microextraction patch for in vitro metabolic profiling to identify <i>Klebsiella pneumoniae</i>	<u>C. Ghosh</u>
P-BIO-11	MS/MS fragmentation characterization of imidazole- and triazole-based compounds: effect of the azole scaffold on fragmentation pathways	<u>V. Greco</u>
P-BIO-12	Application of the Taguchi Method as an Efficient and Sustainable Approach for Bioanalytical Method Development	<u>E. Gregoris</u>
P-BIO-13	Orthogonal transcription of two genes within a single synthetic DNA network	<u>M.G. Izzo</u>
P-BIO-14	nanoHPLC-HRMS Analysis of Oxo-Histidine Formation in A β (1-42) after Boron Neutron Capture Therapy	<u>A. Magnani</u>
P-BIO-15	Decoding CSF protein complexes in neurodegenerative diseases through mass spectrometry	<u>M. Manfredi</u>
P-BIO-16	CRISPR-Cas13-Powered Detection of the Tumor Marker p53	<u>C. Micucci</u>
P-BIO-17	Polythymine-templated copper nanoclusters as fluorescent probes for an innovative label-free LFA assay based on aptamers	<u>M. Minunni</u>
P-BIO-18	Mass spectrometry reveals bacterial metabolite and molecular remodelling in the ageing thymic microenvironment	<u>C. Medana</u>
P-BIO-19	Single-Molecule Ultrasensitive Biomarker Detection: New Frontiers in Early-Stage HPV Screening	<u>L. Sarcina</u>

Ambiente e Beni Culturali (ABC)

SESSIONE POSTER 2 Martedì 8 Settembre 14.00 - 15.00

P-ABC-01	Optimizing Solar-Based Advanced Oxidation Processes by Combining Design of Experiments and ASCA	<u>M. Adanyi</u>
P-ABC-02	Chemometric Analysis of Emerging Contaminant Dynamics Across a Full-Scale Wastewater Treatment Plant: the QIMERA Pilot Study	<u>E. Alladio</u>

P-ABC-03	Integrated Computational and HPLC-HRMS Workflow for Untargeted Environmental Surveillance of Pharmaceutical Contaminants in surface waters	<u>S. Arpaia</u>
P-ABC-04	PFAS compositional ratios as indicators of persistent landfill leachate contamination in groundwater after landfill closure	<u>M. Barbera</u>
P-ABC-05	Environmental distribution of a plant-derived biostimulant in different scenarios: comparison between tropical and temperate-climate soils	<u>P. Calza</u>
P-ABC-06	Metakaolin-Based Geopolymers for Metal Cations Removal from Aqueous Matrices	<u>E. Capodaglio</u>
P-ABC-07	Exploring PFOS and PFOA Isomers through HPLC-MS/MS methods	<u>M. Carrara</u>
P-ABC-08	Nanostructured Silver-Silicate Composites for Effective Phytohormone Contaminant Remediation	<u>R.M. Cigala</u>
P-ABC-09	On the cis-trans isomerisation of the sunscreen UV filter ethylhexyl methoxycinnamate in different environments	<u>I. Coralli</u>
P-ABC-10	Trace Metal Speciation and Environmental Behaviour in Coastal Lagoon Sediments: A Case Study from Faro Lake (Mediterranean Sea)	<u>F. Crea</u>
P-ABC-11	Untargeted HRMS profiling of river water micropollutants: expanding chemical space through complementary solid-phase extraction	<u>F. Cristaudo</u>
P-ABC-12	Recovery through phytoremediation: greenhouse study on hyperaccumulator plant species	<u>E. De Rosa</u>
P-ABC-13	Assessment of metal impurity partitioning in coagulation-flocculation processes using model iron-based coagulants	<u>D. Fabbri</u>
P-ABC-14	Adsorption and advanced oxidation of valganciclovir in aqueous systems: removal efficiency and transformation products	<u>D. Fabbri</u>
P-ABC-15	Evaluating Wastewater Treatment Efficiency in Antarctica through Passive Sampling Techniques	<u>J. Gambetta</u> <u>Vianna</u>
P-ABC-16	Multi-Element Determination in Brown Bear (<i>Ursus arctos</i>) Hair as a Tool for Environmental Biomonitoring in Northeastern Italy	<u>F. Girolametti</u>
P-ABC-17	Influence of inorganic matrices on the analytical pyrolysis of polymers: towards a validated multi-analytical workflow	<u>E. Gregoris</u>

P-ABC-18	Clean-up of sulfonamide antibiotics in soil sample extracts using molecularly imprinted polymers prepared by precipitation polymerisation	<u>A. Lo Presti</u>
P-ABC-19	Personal Care Products (PCPs) and Polycyclic Aromatic Hydrocarbons (PAHs) in the snowpack of the Lake Tahoe region (USA)	<u>E. Marchiori</u>
P-ABC-20	Removal of pollutants by chemical and/or electrochemical technique from industrial wastewater	<u>S. Mastromarino</u>
P-ABC-21	Natural photoactivity and self-purification capacity of quarry lake waters of the Piedmont region	<u>A. Mittaridonna</u>
P-ABC-22	Assessing airborne microplastics concentrations in indoor working environments using Py-GC-MS	<u>F. Modugno</u>
P-ABC-23	Spectroscopic Investigation of the Formation of Alizarin-Aluminium Lake Pigments under Variable Synthesis Conditions	<u>L.M. Moretto</u>
P-ABC-24	Tecniche analitiche avanzate per l'indagine rapida di PFAS volatili	<u>D. Morosini</u>
P-ABC-25	Occurrence and environmental monitoring of per- and polyfluoroalkyl substances (PFAS) in groundwater	<u>G. Perra</u>
P-ABC-26	Confluences as hotspots of carbonate-system reorganization in headwater stream networks	<u>R. Piazza</u>
P-ABC-27	AgNPs-Modified TiO ₂ on Recycled Polystyrene: A Sustainable Approach for Visible-Light Photodegradation of Organic Dyes	<u>L. Remia</u>
P-ABC-28	Validation and application of the UNI ISO 11338-2:2021 analytical method for the determination of polycyclic aromatic hydrocarbons in atmospheric particulate matter	<u>M. Ricciardi</u>
P-ABC-29	Characterization of Ancient Cosmetic Residues in Greek Lekythoi from the Necropolis of Spina by Analytical Pyrolysis	<u>A.G. Rombolà</u>
P-ABC-30	Co-Occurrence and Correlation of Fluorinated Microplastics, Additives, and Perfluoroalkyl Substances (PFAS) in the Venice Lagoon Waters	<u>B. Rosso</u>
P-ABC-31	Pathways of Tire and Road Wear Particles (TWP) from the Dranaige basin to the Venice Lagoon	<u>B. Rosso</u>
P-ABC-32	Unravelling Plastic-Associated Contamination in Antarctic Snow: SMPs, PAs, and PFAS through an Integrated Analytical Approach	<u>E. Scalabrin</u>

P-ABC-33	Exploring the performance of hexagonal boron nitride as novel photocatalyst towards the degradation of PFAS	<u>I. Sciscenko</u>
P-ABC-34	Soil-biodegradable chitosan-cutin coatings for sustainable controlled release fertilizers	<u>C. Scopetani</u>
P-ABC-35	A Streamlined and Fully Automated Online SPE-ICP-MS Method for Ultra-Trace Mercury Monitoring in Natural Waters	<u>D. Spanu</u>
P-ABC-36	The quest for an analytical method to analyze cVMS in snow	<u>G. Trevisanato</u>
P-ABC-37	Organic Contaminants in Unhatched Seabird Eggs from Terra Nova Bay (Ross Sea, Antarctica): PAHs, Fragrances, UV Filters, and Bisphenols	<u>M. Vecchiato</u>
P-ABC-38	Optimization of an Isotope Dilution GC-MS Method for PFAS Analysis in Water	<u>D. Zatta</u>
P-ABC-39	Tetracycline interaction with Ca ²⁺ and Zn ²⁺ : speciation study and antiproliferative activity in non-small lung cancer cells	<u>O. Giuffrè</u>
P-ABC-40	Chemical characterization and seasonal variability of PM _{2.5} in an urban-industrial area of southern Italy: the role of ionic species, polycyclic aromatic hydrocarbons and levoglucosan as indicators of emission sources	<u>M. Trifuoggi</u>
P-ABC-41	Remediation of heavy hydrocarbon-contaminated land using electrochemical techniques: the case study of the Napoli Est SIN	<u>M. Toscanesi</u>

Chimica Analitica Forense / Tossicologia (FOR/TOS)

SESSIONE POSTER 2 Martedì 8 Settembre 14.00 - 15.00

P-FOR/TOS-01	Non target analysis of emerging pollutants in urine samples - method development and first results from a screening on agricultural workers	<u>P. Barbieri</u>
P-FOR/TOS-02	From Microplastics to Cardiovascular Damage: A Multimodal Analytical Platform	<u>G. Battaglia</u>
P-FOR/TOS-03	Identification and estimation of microplastics in soil collected from the ecotourism destinations of the Eastern Himalayas	<u>S. Bhattacharya</u>
P-FOR/TOS-04	Characterization of Brorphine Urinary Metabolites and Sex-Specific pharmacokinetic profile through Untargeted Metabolomics and Molecular Networking	<u>L. Chiodo</u>

P-FOR/TOS-05	CdS quantum dots in the skin: the smaller they are, the deeper they go	<u>G. Marussi</u>
P-FOR/TOS-06	Multiparametric analytical approach for the characterization and quality assessment of novel tobacco and nicotine products	<u>E. Papa</u>
P-FOR/TOS-07	Integrated UHPLC-MS/MS air monitoring and in vitro toxicological assessment of occupational exposure to 1,4-butanediol diglycidyl ether (BDDE)	<u>E. Porru</u>
P-FOR/TOS-08	Are fluorine-free textiles really fluorine-free? Results of their volatile PFAS screening by HS-SPME-GC-MS/MS	<u>M. Quinto</u>
P-FOR/TOS-09	Non-Destructive MicroNIR Chemometric Profiling of Bloodstains for Field-Deployable BPA: From Substrate Effects to Species Discrimination and Aging	<u>G. Rizzo</u>
P-FOR/TOS-10	An LC-MS/MS method for the determination of PFOA, ADV and cC6O4 in human plasma	<u>E. Roggia</u>
P-FOR/TOS-11	An innovative online SPE-HPLC-MS/MS method for the simultaneous analysis of 21 phthalate and alternative plasticizer metabolites in human biological samples	<u>G. Rossetti</u>
P-FOR/TOS-12	From many tools to one: an all-in-one R pipeline for untargeted NPS screening by LC-HRMS/MS	<u>D. Serafini</u>

Green Analytical Chemistry (GREEN)

SESSIONE POSTER 2 Martedì 8 Settembre 14.00 - 15.00

P-GREEN-01	3D-Printed Wooden stir bars as tunable sorptive phases for the extraction of emerging contaminants	<u>E. Ceccardi</u>
P-GREEN-02	Electrochemical Quantification of Polyphenols in NADES: A Green Analytical Approach	<u>E. Frignani</u>
P-GREEN-03	Innovative 3D-printed device for FPSE of complex matrices	<u>M. Locatelli</u>
P-GREEN-04	Giving horse hoof waste a second life as dye sorbent from wastewaters	<u>L.R. Magnaghi</u>
P-GREEN-05	A Sustainable Analytical Method for Detecting Olive Oil Adulteration Using Subcritical Fluid Chromatography	<u>A. Satira</u>

Sensori e Biosensori (SENS)

SESSIONE POSTER 3 Mercoledì 9 Settembre 14.00 - 15.00

P-SENS-01	In-situ electrochemical generation of initiator for ionic polymerization	<u>E. Ausili</u>
P-SENS-02	Flower-inspired paper-based microfluidic platform for in situ electrochemical monitoring of nitrate and pH in soil	<u>L. Belcastro</u>
P-SENS-03	Dual-Purpose Ni-Sensitive Bioplastic Films: A Smart Jewellery Coating for Allergen Detection and Skin Protection	<u>R. Biesuz</u>
P-SENS-04	Silicon Nanowires platforms via electrodeposition and Metal-Assisted Chemical Etching	<u>M. Bonechi</u>
P-SENS-05	Impedance Spectroscopy for Detection of Polystyrene Micro- and Nanoplastics in Water	<u>A. Carvani</u>
P-SENS-06	pH-Activated Self-Propagating Protein Aggregation Enables Plasmonic Single-Molecule Affinity Detection at 10-20 M	<u>M. Catacchio</u>
P-SENS-07	Electrochemical Sensor as Smart Device for White Blood Cell Measurement in Synovial Fluid	<u>B. Comegna</u>
P-SENS-08	Green electrosynthesized polydopamine-based MIPs for the electrochemical detection of non-electroactive Glyphosate and Melamine	<u>A. Cutaia</u>
P-SENS-09	From dopamine sensing to electrochromic actuation: an analog logic OECT-based platform	<u>G. D'Altri</u>
P-SENS-10	New Approaches to Produce 3D-Printed Electroanalytical Devices Integrating Laser-Nanostructured Sensing Films	<u>F. Della Pelle</u>
P-SENS-11	Norepinephrine-Derived MIPs on Porous Silica Interferometers for Label-Free Optical Sensing	<u>T. Di Giulio</u>
P-SENS-12	Design of an rGO-AuNP Biosensor for Protein Detection Leveraging Proximity-Induced DNA Strand Displacement	<u>D. Di Lena</u>
P-SENS-13	Water-Processable 2D Metal-COF Inks for Versatile Electrochemical Sensing in Clinical and Environmental Analysis	<u>A. Dron</u>
P-SENS-14	Development of a Lateral Flow assay based on CRISPR/Cas-technology for the detection of Trastuzumab as a HER2-positive breast and gastric cancers biomarker	<u>A. Emamiamin</u>
P-SENS-15	Peptide-based gel to improve stability of electrochemical biosensors	<u>G. Iula</u>

P-SENS-16	Measuring the state-of-charge (SoC) and equivalent series resistance (ESR) of exhausted alkaline and zinc-carbon batteries for possible recharging using a self-built, open-source Arduino-based tool	<u>F. Marini</u>
P-SENS-17	Electrochemical Biosensing of Human E-Cadherin through Internalin A-Mediated Molecular Recognition	<u>L. Martina</u>
P-SENS-18	Electrochemical sensor for quantifying Gremlin-1-expressing exosomes in breast cancer liquid biopsy	<u>G. Nota</u>
P-SENS-19	Comprehensive investigation for the simultaneous detection of ferric and ferrous ions in hydrochloric acid media by microelectrode voltammetry	<u>M.D. Peçanha de Souza</u>
P-SENS-20	Analytical Optimization of Molecularly Imprinted Electrochemical Sensors for PFOS Determination in Water Samples	<u>M.D. Peçanha de Souza</u>
P-SENS-21	How changing printer and manufacturing parameters affect the electrochemical performance of 3D-printed devices	<u>G. Persico</u>
P-SENS-22	Electrochemical Approaches for Fast Cannabinoid Analysis in Hashish	<u>L. Pigani</u>
P-SENS-23	An ML-assisted inkjet-printed electrochemical sensor for the detection of glyphosate in surface water	<u>A. Silvestri</u>
P-SENS-24	Liquid Crystal-Templated Silver Electrodeposits as Electrocatalytic Platforms for Haloacetic Acid Detection	<u>A.M. Stortini</u>
P-SENS-25	Polydopamine MIP-Based Biosensor for Trace-Level Detection of Benzo[a]pyrene	<u>A. Tricase</u>
P-SENS-26	Development of an Electrochemical Biosensor for the Detection of Bisphenol A	<u>F. Zanette</u>

Scienza delle Separazioni (SEP)

SESSIONE POSTER 3 Mercoledì 9 Settembre 14.00 - 15.00

P-SEP-01	Development and Optimization of a QuEChERS MOF-based d-SPE Method for Multi-Residue Analysis in Cereal-based Foods: Exploring Clean-up and Pre-concentration Strategies	<u>A. Aguilone</u>
P-SEP-02	Identification and quantification of microplastics in complex samples through hydrogen peroxide digestion followed by pyrolysis-gas chromatography-mass spectrometry	<u>G. Bonaccorso</u>

P-SEP-03	Tracking Polymer Migration: Optimized Extraction and Validation for Dry Food Packaging	<u>E. Conterposito</u>
P-SEP-04	Orthogonal RP-UPLC and SEC-UPLC Approaches for Quantitative Analysis and Integrity Assessment of Cetuximab-Based Antibody-Drug Conjugates	<u>D. Cuffaro</u>
P-SEP-05	Towards greener chiral separations using supercritical fluid chromatography	<u>S. Felletti</u>
P-SEP-06	Efficient Valorization of Waste Surgical Masks for the Production of Activated Carbon-like Sorbent and Its Application in Solid-Phase Extraction and UHPLC-PDA Analysis of Phthalates in Water	<u>V. Ferrone</u>
P-SEP-07	Exhaled breath volatolomics for the diagnosis of cancer and respiratory diseases	<u>M. Galletta</u>
P-SEP-08	Hydroponic micropollutant adsorption via sewage sludge biochar	<u>F. Gosetti</u>
P-SEP-09	True Quantitation of Terpenes in Cannabis sativa L. Essential Oil Using Relative Response Factors in GC-FID analysis	<u>G. Micalizzi</u>
P-SEP-10	Kendrick Mass Defect Filtering Enables High-Throughput Untargeted Annotation of Minor Phytocannabinoids: Toward Streamlined Phytocannabinomics	<u>E. Taglioni</u>

Spettroscopia Analitica (SPA)
SESSIONE POSTER 3 Mercoledì 9 Settembre 14.00 - 15.00

P-SPA-01	Mimicking Atmospheric Deposition: Controlled Resuspension vs Filtration Approaches for generation of PM10 reference materials	<u>F. Bilo</u>
P-SPA-02	Metabolomic analysis by 1H-NMR of porcine plasma for physiological status monitoring	<u>L. Cicero</u>
P-SPA-03	The contribution of XPS to the investigation of unregulated fibrous minerals: the case of antigorite.	<u>M. Fantauzzi</u>
P-SPA-04	Selective Palladium recovery by EPS-based biosorbents and valorisation into ORR electrocatalysts	<u>C. Giovani</u>
P-SPA-05	Development of a Multi-Bounce UV-Vis Spectrophotometer with Extended Optical Pathlength for Sub-ppm Metal Detection in Water	<u>W. Giurlani</u>

P-SPA-06	Statistically Controlled Synthesis and Physicochemical Characterization of green fluorescent PolyT-Templated Copper Nanoclusters	<u>M. Minunni</u>
P-SPA-07	Analytical characterization of antimicrobial Zn/Ag hybrid phosphates	<u>R.A. Picca</u>
P-SPA-08	Development of a Stability-Indicating HPLC-DAD Method for Related Substances Analysis in a Drug Product Containing Two Active Pharmaceutical Ingredients using an ICH Q14-Compliant Full Factorial Design Approach	<u>A. Rossi</u>
P-SPA-09	Recovery of Rare Earth Elements by chitosan: Influence of Molecular Weight on Nd ³⁺ and Gd ³⁺ Removal	<u>M. Siddi</u>

Alimenti e Nutraceutici (ALI)

SESSIONE POSTER 3 Mercoledì 9 Settembre 14.00 - 15.00

P-ALI-01	Study of the effects of non-thermal technologies on the chemical composition of food through different analytical methods.	<u>L. Acquaticci</u>
P-ALI-02	Extended automation of olive oil analysis according to CE Regulation 2022/2104 and 2022/2105	<u>A. Carretta</u>
P-ALI-03	Rare Earth Elements in wine as a geographical fingerprint of provenance: signal masking effect and multivariate interpretation	<u>M. Consumi</u>
P-ALI-04	Evaluation of the stability of two new probiotic CA activators	<u>M. Locatelli</u>
P-ALI-05	Fast and reliable TD-GC-MS method for coffee volatilome characterization and species/origin classification	<u>V. Maurino</u>