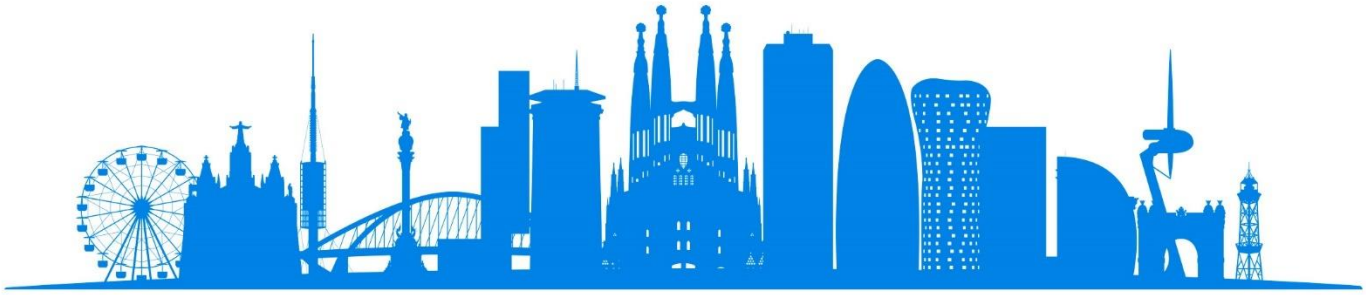
XXII European Conference on

ANALYTICAL CHEMISTRY

EUROANALYSIS



Barcelona 2025

31 AUGUST - 4 SEPTEMBER

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DETAILED PROGRAM

31 AUGUST, 2025

Room 112	17:00	**Opening ceremony**	
Room 112		**History lecture**	
	17:30	PL-HL	Analytical chemistry in Spain: an overview of the last 50 years **Miquel Esteban**
Room 112		**Robert Kellner lecture**	
	18:15	PL-RKL	The transformative journey from green sample preparation to sustainable analytical chemistry **Elia Psillakis**
	19:00	**Welcome reception**	

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Room 112		**Plenary lecture**	
	09:00	PL-01	Temperature responsive and per-aqueous liquid chromatography: new solutions for more sustainable multidimensional high performance liquid chromatography **Frederic Lynen**
	10:00	**Coffee break in the exhibition area**	
Room 112		**Keynote lecture**	
	10:30	KL-01	Mass spectrometry: a game changer in analytical chemistry **Encarnación Moyano**
Room 112		**Session 1: Separation techniques: environmental appl. I**	
	11:00	O-001	What's rotting here?– VOC profiling for the detection of quarantine pathogens in agricultural commodities using TD-GC-MS **Markus Witzler**
	11:15	O-002	Rapid measurement of 237Np and Pu isotopes in seawater and freshwater samples by pseudo-isotope dilution method and SF-ICP-MS analysis **Jian Zheng**

	11:30	O-003	Functionalized membranes for in situ extraction and untargeted detection of heavy metal pollution in surface waters **Clàudia Fontàs**
	11:45	O-004	Comparison of methods for the preparation of scintillating resins for radionuclide analysis **Alex Tarancón Sanz**
	12:00	O-005	Analytical methods for the evaluation of photocatalytic degradation of PFAS **Ida Kraševec**
	12:15	O-006	Packed ionic resins to perform solid phase extraction (SPE) and solid phase spectrophotometry (SPS) for metal ions determination and speciation in a smart sampling approach **Raquel Mesquita**
	12:30	O-007	Analytical challenges and workflows to study transformation products of water contaminants **Aleksander Kravos**

Room 133+134		**Keynote lecture**	
	10:30	KL-02	Mass spec imaging: a comprehensive view of molecular insights **Martina Marchetti-Deschmann**

Room 133+134		**Session 2: Task group Imaging**	
	11:00	O-008	Temporal profiling of stress-related depression symptoms from a single hair by nano-PALDI imaging mass spectrometry **Shu Taira**
	11:15	O-009	Elemental mapping to study the interaction of MRI contrast agents with extracellular matrix components **Heike Traub**
	11:30	O-010	Multiscale spectroscopic characterization of microplastics in soil: from rapid screening by handheld near-infrared spectroscopy to submicron analysis by optical photothermal infrared and raman micro-spectroscopy **Miriam Unger**
	11:45	O-011	Visualize invisible with hyperspectral imaging for real-time, in-line and non-destructive inspection in food, pharma & recycling **Léa Butruille**
	12:00	O-012	Exploring factors influencing the reflectance spectra in mouldy core apples and validation of LC-MS/MS for mycotoxin detection **María Agustina Pavicich**
	12:15	O-013	Connecting past and presence: novel strategies to study localized proteome and lipidome changes in parchment via multimodal raman, FTIR and MALDI MS Imaging **Antonia Malissa**

Room 133+134	**12:30**	**Shimadzu sponsored seminar**	

Room 131+132		**Keynote lecture**	
	10:30	KL-03	Bioanalytical strategies for antibody-based therapeutics in drug discovery and development **Peter Eichhorn**

Room 131+132		Session 3: Biosensors	
	11:00	O-014	An original method of functionalizing mesoporous carbon with lawsone as a new sensor for highly sensitive hormone determination **Joanna Smajdor**
	11:15	O-015	Advancing point-of-care diagnostics: microfluidic electrochemical biosensor for detecting immune responses caused by multidrug-resistant pathogens **Beatriz Rebollo Calderón**
	11:30	O-016	Highly efficient coreactant-free electrochemiluminescence sensing platform with multiplexed interdigitated spiral microelectrodes **Somayyeh Bozorgzadeh**
	11:45	O-017	Electrochemical detection of isothermally amplified long non-coding RNAs: a promising approach for clinical cancer management. **Rebeca Miranda-Castro**
	12:00	O-018	Preclinical validation of an electrochemical sensor for chronic alcohol abuse **Roberto Maria-Hormigos**
	12:15	O-019	Brain derived exosomes in plasma as novel biomarkers for early Alzheimer's detection and risk stratification of patients: a novel point-of-care diagnostic approach **Rosanna Rossi**
	12:30	O-080	Can electroanalysis enhance lateral flow immunoassay? Prostate - specific antigen as the case of study **Antonella Miglione**

Room 118+119		Keynote lecture	
	10:30	KL-04	From mass spectrum to structure: accelerating metabolite identification with AI and cloud computing **Oscar Yanes**

Room 118+119		Session 4: Omics	
	11:00	O-020	NanoUHPLC-HRMS with a Q-LIT-Orbitrap Tribrid MS for characterizing astaxanthin-loaded nanoparticles in ocular applications **Jessica Brandi**
	11:15	O-021	FLEXiGUT: unraveling the impact of environmental and dietary contaminants on gut microbiome composition and inflammation. **Roger Pero-Gascon**
	11:30	O-022	Comparative assessment of HILIC-HRMS vs. CE-HRMS in metabolomics for Biomarker discovery of PCB and BPA Exposure **Maykel Hernández-Mesa**
	11:45	O-023	Non-target metabolomic approach of the toxic effects of glyphosate in zebrafish (D. rerio) **Marc Marín-García**
	12:00	O-024	Investigating olive natural resistance to Verticillium wilt using LC-IMS-MS-based non-targeted metabolomics **Lucía Olmo-García**
	12:15	O-025	Valorization of a variety of historical wheat (San Pastore) along the bread production chain using omics and multivariate methods **Elisa Robotti**

12:45		Lunch & poster session I in the exhibition area

Room 112		Keynote lecture	
	14:00	KL-05	Mass spectometry approaches to the analysis of nano- and microplastics **Joanna Szpunar**

Room 112		Young Oral Environment	
	14:30	YO-01	Optimized fast gas chromatography coupled with proton-transfer-reaction time-of-flight mass spectrometry for the selective near real-time analysis of herbivore- and pathogen-induced plant volatiles **Jennifer Braun**
	14:40	YO-02	Extractions and analysis of 8 classes of halogenated disinfection by-products in soil and lettuce **Mathieu Dumas**
	14:50	YO-03	Tools for assessing the impact of petrochemical industries on the population **Laura Solé-Domènech**
	15:00	YO-04	Determination of High Production Volume Chemicals (HPVCs) in prepackaged fish-based meals sold in Tarragona **Laura Borrell**
	15:10	YO-05	Distinct ciguatoxin profiles in fish involved in poisoning events from the Indian Ocean: the importance of UPLC-MS/MS analysis **Joan Josep Cervera Piñana**
	15:20	YO-06	A new high-performance chromatography/tandem mass spectrometry (HPLC-MS/MS) method for the determination of hydroxylated PAHs metabolites in animal organs **Luca Sorarù**

Room 133+134		Young Oral Sensors	
	14:00	YO-07	Development of MK-008: a selective and reversible guaiazulene-based chemosensor for on-site Cu2+ superindex detection: spectrophotometric, colorimetric, and smartphone-based analysis **Mehmet Kaplan**
	14:10	YO-08	Innovative 3D microPAD for dual detection of paracetamol and aspirin in saliva and urine **Alberto Abalde-Pujales**
	14:20	YO-09	Metal and metal oxide thin film electroanalytical sensor production by Print-Light-Synthesis **Stefano Gianvittorio**
	14:30	YO-10	Microfluidic biosensor for simultaneous detection of glucose and sucrose **Kamil Gryckiewicz**
	14:40	YO-11	Multiplexed electrochemical immunosensor for the dual detection of tetrodotoxin and saxitoxin in seafood samples **Jaume Reverté**
	14:50	YO-12	Highly sensitive printed pH sensor using CB/PANI nanocomposite for POC diagnosis of orthopedic infections **Christian Gosti**

	15:00	YO-13	Towards eco-friendly and AI-powered biosensing: A biochar-based platform for emotional and physiological monitoring **Antonio Licheri**
	15:10	YO-14	Biochar to produce plastic electrodes. Electrochemical approach to environmental monitoring **Monica Mosquera**
	15:20	YO-15	Wearable µTPAD device for pH monitoring in chronic wounds **Laura Belcastro**

Room 131+132	**Young Oral Separation and sample treatment**		
	14:00	YO-16	Are actually deep eutectic solvents needed in liquid-liquid extraction?: Determination of bisphenols in edible oil samples **Cristina Zapater**
	14:10	YO-17	Comparison of novel extraction techniques for the determination of 12 bisphenols in e-cigarette refill liquids. **Dominika Osiecka**
	14:20	YO-18	Development of selective aptamer-based sorbent for trace analysis of cadmium **Alice Taxil-Paloc**
	14:30	YO-19	Analytical tools for the screening of persistent and mobile contaminants in urine **Sandra Méndez**
	14:40	YO-20	Chiral analysis of mirabegron in pharmaceutical and biological matrices by cyclodextrin-electrokinetic chromatography with deep eutectic solvents as additives **José Agustín Martínez-Olivares**
	14:50	YO-21	Design of a stationary phase for hydrodynamic chromatography and its uses for the separation and detection of inorganic nanoparticles **Iván Lozano-González**
	15:00	YO-22	Characterization of lipid profiles in bee pollen and honey by MALDI-TOF MS **Ana Jano**
	15:10	YO-23	Comparison of NADES removal strategies for hydrophilic and hydrophobic extracts: obtention of purified extracts with enhanced bioactivity **Victor M. Amador-Luna**
	15:20	YO-24	Optimizing radiochemical separation for accurate measurement of 93Zr in radioactive waste using TK400, ZR and TBP resins. **Flora Mbouyom Tchudjeu**

Room 118+119	**Keynote lecture**		
	14:00	KL-06	Why do we need a Theory of Sampling (TOS) for analysis? **Kim Esbensen**

Room 118+119	**Young Oral Chemometrics**		
	14:30	YO-25	Advancing the predictive performance of generalised retention models: serially coupled columns under HPLC gradient elution **Pau Peiró Vila**
	14:40	YO-26	Parametric modelling of polonium solid-liquid distribution coefficient in soils **Dídac Serraïma**

	14:50	YO-27	intelligent recommendation system for structure–enantioresolution relationships in HPLC using cellulose-based chiral stationary phases **Carlos Pardo-Cortina**
	15:00	YO-28	Discrimination between natural honey and “honey” produced by sugar-supplemented bees **Danica Mostoles**
	15:10	YO-29	Validation of spectrophotometric methods for the determination of antioxidant activity and total polyphenols in fruit juices. **María Pólit**
	15:20	YO-30	Using the automated peak group analysis to determine pure component decompositions for FT-IR and Raman spectra **Lukas Prestin**
	15:30	YO-31	Fast cocaine purity determination in complex seized samples using NIR spectroscopy and chemometric tools **Sara Soriano-Hernández**
	15:30	**Coffee break & poster session I in the exhibition area**	
Room 112		**Session 5: Sample treatment**	
	16:30	O-026	Development and characterization of a monolithic aptamer-based sorbent for selective extraction of Aβ amyloid peptides from cerebrospinal fluid coupled on-line with LC-MSMS analysis **Audrey Combès**
	16:45	O-027	Microwave and SPE: a recipe for faster and greener lipid analysis **Donatella Ferrara**
	17:00	O-028	Green preconcentration methods based on dispersive liquid-liquid microextraction using hydrophobic natural deep eutectic solvents for the determination of emerging contaminants in water samples **Beatriz Gómez-Nieto**
	17:15	O-029	Innovative all-in-one sample treatment platforms based on supramolecular solvents with liquid chromatography–mass spectrometry **Noelia Caballero-Casero**
	17:30	O-030	Exploring the potential and challenges of microwave-assisted pretreatments coupled with Py-GC-MS for the quantification of MPs and associated contaminants **Greta Biale**
	17:45	O-031	Sustainable cellulose based modified sorbents for bioanalysis **Ángela Inmaculada López-Lorente**
Room 133+134		**Session 6: Electroanalysis**	
	16:30	O-035	Spectroelectrochemistry as a tool for iron speciation **José Manuel Díaz-Cruz**
	16:45	O-036	Quo Vadis Electroanalytical Measurements in Flowing System **Jiri Barek**
	17:00	O-037	Determination of free metal ion concentrations with AGNES (Absence of Gradients and Nernstian Equilibrium Stripping) **Encarna Companys**

	17:15	O-038	Insights into the evaluation of affinity capillary electrophoresis and microscale thermophoresis for characterizing molecular and biomolecular interactions **Mufarreh Asmari**
	17:30	O-039	Exploring the fundamental limits and opportunities of reference electrodes based on organic electrolytes **Nikolai Tiuftiakov**
	17:45	O-040	Evaluating the unified pH scale for accurate and SI-traceable monitoring of ocean acidification monitoring **Raquel Quendera**

Room 131+132		**Keynote lecture**	
	16:45	KL-07	Excellence in analytical chemistry: a joint master's programme **Ivo Leito**

Room 131+132		**Session 7: Task group Education**	
	17:00	O-032	Empowering learners: student-centered strategies in analytical chemistry for undergraduate and graduate education **Susana Amézqueta**
	17:15	O-033	Embracing error: a transformative approach to skill acquisition in analytical chemistry education **Xavier Subirats**
	17:30	O-034	Integrating computational thinking and machine learning into analytical chemistry education: a hands-on strategy using visual and script-based tools **Ángel Sánchez-Illana**

Room 118+119		**Session 8: Chemometrics**	
	16:30	O-041	Chemometrics applied to the study of non-canonical DNA structures **Raimundo Gargallo**
	16:45	O-042	Comparison of spectral deconvolution methods for rapid determination of beta emitters by liquid scintillation counting **Mireia Pérez-Baeza**
	17:00	O-043	A novel thermal analysis method coupled with sampling theory for analyzing sample size and cross-contamination in plastic recycling **Mahsa Akbari Lakeh**
	17:15	O-044	Comprehensive ata analysis using regions of interest multivariate curve resolution for ion mobility mass spectrometry: analysis of plastic additives **Ana Torres-Agullo**
	17:30	O-045	Fast and non-invasive coffee classification, characterization and authentication using Near-Infrared Hyperspectral Imaging (NIR-HSI) and chemometrics. Application to the detection and quantitation of adulterated coffee samples **Nerea Núñez**
	17:45	O-046	Optimizazion of an LC-MS analytical method for the determination of multi-class polar emerging contaminants in reclaimed water **Caterina Durante**

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Room 112	Plenary lecture	
09:00	PL-02	Ultrasensitive and multiplexed nanophotonic sensors for next-generation point-of-care analytical applications **Laura M. Lechuga**
	10:00	**Coffee break in the exhibition area**
Room 112	**Keynote lecture**	
10:30	KL-08	Adding colour to ion-selective sensors **Agata Michalska**
Room 112	**Session 9: Sensors**	
11:00	O-047	Towards an epidermal biosensing platform for non-invasive diabetes management **Federica Mariani**
11:15	O-048	Investigating Microplastics through electrochemical impedance spectroscopy: an analytical method for their label-free analysis **Giuseppe Arrabito**
11:30	O-049	Smart functionalization for paper microfluidics by SI-PET-RAFT polymerization **Canan Aksoy**
11:45	O-050	Curcominoid-based responsive substrates for the development of sensors **Arántzazu González-Campo**
12:00	O-051	Molten salt activated sewage sludge biochar: characterization and modified electrodes for the analysis of sunscreen UV-filters **Elahe Ahmadi**
12:15	O-052	Potentiometric multisensor as an inexpensive and reliable tool for electrolyte level analysis in body fluids **Nikola Lenar**
Room 133+134	**Keynote Lecture**	
10:30	KL-09	Effect of alkyl length in polyamide nanofibers on sample preparation using SPE **Frantisek Svec**
Room 133+134	**Session 10: Task group Sample treatment**	
11:00	O-053	Development of an analytical method to study volatile organic compounds in spanish tree leaves using HS-SPME-GC-QTOF-MS combined with multivariate analysis **Adrián Fuente-Ballesteros**
11:15	O-054	Bridging the Gap Between HPLC and Direct MS: A Novel 2DµCFs System for High-Throughput and Solvent-Saving Complex Samples Fractionation **Maurizio Quinto**
11:30	O-055	Sorbent preparation using eco-friendly and waste-based supports: A step forward in sample preparation **Héctor Martínez-Pérez-Cejuela**

11:45	O-056	Cutting edge advances toward greener analytical X-ray fluorescence spectrometry methods: A focus on sample treatment **Eva Marguí**
12:00	O-057	Lab-In-syringe automated dispersive micro solid-phase extraction method based on in situ formed LDHs for determination of angiotensin receptor blockers in environmental waters **Sercan Yıldırım**
12:15	O-058	Supercritical fluid extraction of bioactive compounds from olive pruning waste and their characterization by means of hyphenated liquid chromatographic techniques **Giovanna Cafeo**

Room 131+132	**Keynote lecture**	
10:30	KL-10	Non-target chemometric analysis of mass spectrometry data **Romà Tauler**

Room 131+132	**Session 11: Task group Chemometrics**	
11:00	O-059	Combining passive sampling, LC-HRMS/MS and regions of interest multivariate curve resolution: potentialities and challenges **Barbara Benedetti**
11:15	O-060	Class modeling tools in analytical chemistry **Federico Marini**
11:30	O-061	Blind unmixing of photochromic fluorescent proteins leveraging their photoswitching properties **Adrián Gómez-Sánchez**
11:45	O-062	From measurement error to historical insights: a new approach for classifying zoological specimens using portable NIR sensors and chemometrics **Barbara Giussani**
12:00	O-063	Chemometric data fusion of metabolomic and lipidomic profiles for CHD prediction: analysis in pregnant and non-pregnant women studies **Vicky Caponigro**
12:15	O-064	Assessing grape quality and environmental interactions in the bairrada region using LiMM-PCA and ComDim. **Alisa Rudnitskaya**

Room 118+119	**Keynote lecture**	
10:30	KL-11	Digging into the multifaceted variability of (auto)antibody molecules using novel MS-based approaches **Elena Domínguez**

Room 118+119	**Session 12: Task group Bioanalysis**	
11:00	O-065	Mass spectrometry-based faecal proteomics and electrochemical magneto-immunoassay integrated strategy to advance non-invasive diagnosis of colorectal cancer **Lorenzo Toma**
11:15	O-066	Dual-template molecularly imprinted polymer stochastic sensor for the simultaneous assay of TNF-α and CRP in whole blood samples from cardiovascular disease patients **Damaris-Cristina Gheorghe**

11:30	O-067	An investigation into mass spectrometry compatible eluents for oligonucleotide impurity profiling **Quang Dong Bui**
11:45	O-068	Paper-based biosensors for detecting bacteria and antibiotics in water **Zhugen Yang**
12:00	O-069	Stochastic sensors – new tools in the prognosis of cardiovascular diseases in obese youngsters **Raluca-Ioana Stefan-Van Staden**
12:15	O-070	From cannabinoids to new psychoactive substances: advanced analytical strategies for dual challenges in drug detection **Constantina Kapnissi-Christodoulou**

12:30	**Lunch & poster Session II in the exhibition area**

Room 112	**Keynote lecture**	
14:00	KL-12	Advancing food metabolomics: analytical strategies, main areas of interest and examples of innovative applications **Alegría Carrasco-Pancorbo**

Room 112	**Young Oral Food chemistry**	
14:30	YO-32	Localization analysis of toxic components in higher plants by imaging mass spectrometry **Soichiro Yamada**
14:40	YO-33	A fast-screening chocolate authentication based on smartphone digital imaging and chemometrics **Laura Morales Erazo**
14:50	YO-34	Efficient multi-class determination of mycotoxins and pesticide residues in fish feed and beekeeping products using UAE-quechers-based extraction and LC-MS **María Álvarez-Romero**
15:00	YO-35	Evaluation of the dietary exposure to perchlorate via high-performance liquid chromatography **Paula Ponz-Perelló**
15:10	YO-36	Leveraging volatile organic compound profiles for rapid differentiation of stingless bee and honeybee honeys using HS-GC-IMS and ultra-fast GC-FID coupled with chemometrics **Kingsley Enoch Adukpoh**
15:20	YO-37	Dry assays for the discrimination of irradiated food samples using a reaction-based optical fingerprinting strategy **Anna Shik**

Room 133+134	**Young Oral Bioanalysis**	
14:00	YO-38	Sustainable production of graphene-based electrochemical sensors using inkjet printing and their reversible thermal tunability **Fabian Weyand**
14:10	YO-39	A Multiplex method for high-throughput quantification of conjugated saccharide in glycoconjugate vaccines: MenACWY as key study **Giovanni Santostefano**
14:20	YO-40	Exploring stress granules in exosomes as novel biomarkers for early Alzheimer's disease detection **Jiayi Shi**

14:30	YO-41	An extensive targeted metabolomics assay for clinical metabolite profiling in serum and plasma samples **Meryl Cruz**
14:40	YO-42	Development of new selective extraction and HILIC separation methods for the analysis of hCG glycoforms at the intact level **Sophia Smirès**
14:50	YO-43	A novel individualized cell trapping design for NP determination in exposed Caco-2 cells by LA-ICP-MS **Ana Justo-Vega**
15:00	YO-44	Analytical strategies to evaluate Critical Quality Attributes (CQAs) of modified mRNA in biotherapeutic development **Mar Losada-Baranera**
15:10	YO-45	3D human skin equivalent wound models for studying medical-generated nano-microplastics penetration, internalization and cytotoxicity **Ying Kong**
15:20	YO-46	Preserving biological integrity of airborne microorganisms by a charged droplets-assisted bioaerosol sampler **Yaxing Li**
Room 131+132	**Young Oral Environmental**	
14:00	YO-47	Analysis of PBDD/Fs in air emission samples: method development, validation and first applications **Albert Sales-Alba**
14:10	YO-48	Are antarctic marine species contaminated? An optimised QuEChERS extraction followed by LC-MS/MS analysis for emerging pollutants **Julia Gambetta Vianna**
14:20	YO-49	Risk assessment of pharmaceutical residues in catalan rivers **Maria Olivella-Martí**
14:30	YO-50	Assessing neurotoxic and cardiovascular risks of pharmaceutical pollution in surface waters using Daphnia magna and zebrafish models **Irene Romero-Alfano**
14:40	YO-51	Assessing the toxicological impacts of pharmaceutical residues in wastewaters: an integrated chemical and biological study using Daphnia magna model **Emma Moragrega-Knol**
14:50	YO-52	Secrets in the snow: nontargeted analysis of CECs in mountain using UHPLC-HRMS **Mónika Adányi**
15:00	YO-53	Assessing the efficiency of biochar for the removal of lanthanides in contaminated waters **Joan Serra-Ventura**
15:10	YO-54	Assessing the influence of different formaldehyde-based resins on VOC emission from wood-based panels using a simplified gas-diffusion microextraction approach **Fátima Daniela Gonçalves**
15:20	YO-55	Development of a new coating based on metal-organic framework material for stir-bar sorptive extraction of acidic pharmaceuticals from environmental water samples **Abril Trullàs**
Room 118+119	**Young Oral Spectroscopy and instrumental innovation**	
14:00	YO-56	Advanced scintillating imprinted polymers for radiochemical iron detection **Isaac Giménez Guerra**
14:10	YO-57	Development of rapid analytical protocols for plutonium and americium determination in environmental samples for radiological emergency response **Yeray Pallás-Tamarit**

14:20	YO-58	Label-free chemical spectroscopy of cancer cells: a comparative study of O-PTIR and FTIR spectroscopy **Nikolaus Hondl**
14:30	YO-59	In silico modelling of the infrared spectrum of urine for optimized disease diagnosis. **Víctor Navarro-Esteve**
14:40	YO-60	Detection of pesticides in light cannabis inflorescence using rapid extraction methods and an extractive-liquid sampling electron ionization-mass spectrometry system **Giovanna Nevola**
14:50	YO-61	Enhanced arsenic determination in tire pyrolysis oils using a high-temperature torch integrated sample introduction system (hTISIS) coupled with an ICP-MS/MS **Mar Todolí Carbonell**
15:00	YO-62	Heritage glass analysis: Novel multivariate approaches and uncertainty estimation for elemental determination by portable X-ray fluorescence **Diego Ahumada-Forigua**
15:10	YO-63	Benchtop LED-NMR a promising tool for the monitoring of photochemical reactions. **Camille Pujol**
15:20	YO-64	UV-Vis and NIR spectroscopy for the detection and quantification of adulteration in extra virgin olive oil **Daniela Victoria Casas**

15:30	**Lunch & poster session II in the exhibition area**	

Room 112	**Session 13: Environment I**	
16:30	O-071	Electrochemical detection of polystyrene in soft and sea water samples **Ozge Surucu**
16:45	O-072	Assessing the presence of persistent and mobile chemicals in spanish aquatic environment: insights from the NEPMTUNE project **Rosa Montes**
17:00	O-073	PFAS screening in agricultural formulations used in rice cultivation **Bernat Oró-Nolla**
17:15	O-074	Microplastic-zinc interactions and their impact on Daphnia magna's metal removal efficiency **Laura Torrent**
17:30	O-075	Spatial variation of per and poly-fluoroalkyl substances and organochlorine pesticides in great tit eggs across different areas in Padova, Italy **Pere Colomer-Vidal**
17:45	O-076	Analysis of organic toxic compounds in synthetic/recycled rubber and artificial turf used in public facilities: Assessment of dermal bioaccessibility **Joel Sánchez-Piñero**

	16:30	**General assembly of SECyTA**

Room 131+132	**Session 14: Sensors: bioanalytical appl. I**	
16:30	O-077	Label-free haptoglobin quantification using a QCM immunosensor: a novel tool for early neurodegenerative disease screening **Mariagrazia Lettieri**
16:45	O-078	Design and validation of textile electrochemical sensors for wearable applications **Federica Mariani**

17:00	O-079	A Multi-epitope nanoswitch platform for rapid and selective detection of bioavailable therapeutic monoclonal antibodies **Denise Di Lena**
17:15	O-081	High-throughput screening for (Bio-)sensor design **Magdalena T. Kuom**
17:30	O-082	Folding paper-based analytical device for simultaneous quantification of cancer biomarkers exploiting quantum dots as ultrasensitive electrochemical labels **Electra Mermiga**

Room 118+119	Session 15: Spectroscopy and spectrometry	
16:30	O-083	Rapid and accurate ethanol determination using microplasma emission spectrometry **Krzysztof Gręda**
16:45	O-084	A spectroscopic study of ternary gas diffusion **Valerio Loianno**
17:00	O-085	How we can gain structural information about individual compounds in complex energy mixtures: Theoretical calculations support analytical data and lead to fascinating results **Wolfgang Schrader**
17:15	O-086	Spectral signatures and degradation: a multivariate approach to microplastic analysis by micro-FTIR spectroscopy **Eleonora Conterosito**
17:30	O-087	Identification and quantification of microplastics – a new approach for interlaboratory comparison tests and analysis in food samples by FTIR, O-PTIR and Raman microspectroscopy **Fischer Dieter**
17:45	O-088	Assessment of metal variability in seaweed exposed to silver and titanium dioxide nanoparticles **Juan José López Mayán**

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Room 112	**Plenary lecture**	
09:00	PL-03	Greenness metrics and assessments **Marek Tobiszewski**
	10:00	**Coffee break in the exhibition area**
Room 112	**Keynote lecture**	
10:30	KL-13	Advances in chromatography, mass spectrometry and data processing: their influence on food analysis **Hans-Gerd Janssen**
Room 112	**Session 16: Separation techniques: food applications**	
11:00	O-089	Bottom-up proteomics identifies and quantifies allergenic proteins in the novel food spirulina **Mariachiara Bianco**
11:15	O-090	Simultaneous quantification of multifamily plant growth regulators in grapes and avocados by QuEChERS-LC-MS/MS **Ariel Fontana**
11:30	O-091	Semi-untargeted UHPLC-MS/MS alkaloid fingerprinting for raw lupin traceability **Fabiola Eugelio**
11:45	O-092	Advanced analytical assessment of phenolic compounds from Tannat grape pomace: bioaccessibility and metabolite profiling after simulated digestion **Lidia Montero**
12:00	O-093	Evaluation of matrix issues in the applicability of LC-MS on the detection of ciguatoxins in fish samples **Andres Sanchez-Henao**
12:15	O-094	Mini-SPME/GC-MS for the quantification of pesticide residues in grapes: Greenness assessment via GAPI and AGREEprep **Yerkanat Syrgabek**
12:30	O-160	Toward unrivaled chromatographic resolving power: Design and development of comprehensive spatial three-dimensional liquid-phase separation technology **Sebastiaan Eeltink**
Room 133+134	**Keynote lecture**	
10:30	KL-14	Sustainable sample preparation: from planar substrates to affordable ambient mass spectrometry **Soledad Cardenas**
Room 133+134	**Session 17: Green chemistry**	
11:00	O-095	Ambient mass spectrometry for food allergen swabbing tests: an extended framework for swab touch spray-mass spectrometry technique **Monica Mattarozzi**

11:15	O-096	Liquid scintillation spectra deconvolution: An approach for development of rapid and low-waste methods **Jordi Fons-Castells**
11:30	O-097	Using life cycle analysis to enhance analytical sustainability **Natali Stojiljkovic**
11:45	O-098	Suspect screening of microplastic-associated emerging contaminants in mediterranean fish using SUPRAS-LC-HRMS **Ayman Saber**
12:00	O-099	Semi-targeted strategies integrating green analytical chemistry principles into food lipid analysis **Paola Donato**
12:15	O-100	The spectrum of your analytical method: is it green, blue, red, or violet? **José Bernal**

Room 131+132	Keynote lecture	
10:30	KL-15	Innovation & collaboration for process analytical technology & advanced pharmaceutical manufacturing **Rodolfo Romañach**

Room 131+132	Session 18: PAT and pharmaceuticals	
11:00	O-101	Where did all the sulfur go? - A detailed examination of crude oil hydrodesulfurization by FTMS and quantitative LEC-ICP-MS/MS **Alessandro Vetere**
11:15	O-102	Continuous protein sensing for cell death monitoring in bioprocessing **Ekaterina Belina**
11:30	O-103	Scalable, non-invasive, in-line, nanoparticle size monitoring for pharmaceutical development and manufacturing **Carl Schuurmans**
11:45	O-104	Solvent substitution for USP compendial HPLC applications **Weidong Zhao**
12:00	O-105	An automated microflow multi-reactor screening platform for biocatalyst optimization **Sanjay Lama**
12:15	O-106	Development of extraction chromatography methods for purification of emerging medical radionuclide standards at the UK National Physical Laboratory **Peter Ivanov**

Room 118+119	Keynote lecture	
10:30	KL-16	From influent to effluent: understanding microplastic distribution in wastewater treatment **Javier Hernández-Borges**

Room 118+119	Session 19: Environment II	
11:00	O-107	Dermal absorption of polycyclic aromatic hydrocarbons and metal allergens **Alexander Roloff**
11:15	O-108	Seasonable and longitudinal variations in disinfection by-products from source to tap and to swimming pool water: Multi-parameters analysis of DPB and their precursors **Florence Vélia**

11:30	O-109	Investigating the occurrence of chemicals of emerging concern and safety of soil-grown tomatoes irrigated with treated wastewater **Ester Heath**
11:45	O-110	Fragmentation or depolymerization? New approach for identifying plastic biodegradation products **Adèle Luthi-Maire**
12:00	O-111	Non-targeted screening of emerging contaminants in groundwater for advancing drinking water quality management **Marco Roverso**
12:15	O-112	Integrated experimental and modeling assessment of ozone precursors and aged air masses in the central andes mountains **Francisco Cereceda-Balic**

12:30	**Lunch & poster session III in the exhibition area**

Room 112	**Keynote lecture**	
14:00	KL-17	Reflectance hyperspectral imaging for artworks and archaeological assets: state of the art and perspectives **Costanza Cucci**

Room 112	**Young Oral Imaging**	
14:30	YO-65	Visualization of space stress under low gravity using hair samples **Yuya Kuwaba**
14:40	YO-66	Effects of vitamins on Catecholamines in a Parkinson's Disease model mouse **Ayano Miyabayashi**
14:50	YO-67	Multiscale and multimodal image fusion. Joining chemical and morphological information of Raman/fluorescence images of labelled samples **Albert Sicre-Conesa**
15:00	YO-68	Biomarker from a single hair to predict prenatal and postpartum depressive symptoms in pregnant females and their partners **Satomi Hara**
15:10	YO-69	Hyperspectral imaging combined with chemometric analysis for characterization and visualization of ischemic intestinal necrosis **chenxi peng**
15:20	YO-70	Design of a Microfluidic Paper-Based Device (μPAD) for the determination of total phenolic content by FBBB method **Maider Zugazua Ganado**

Room 133+134	**Young Oral Green + Circular Economy**	
14:00	YO-71	Development and application of an automated methodology for the determination of tetracyclines in environmental samples **Joanna Antos**
14:10	YO-72	Arduino Board for the determination of Copper in waters. **Pepe Llopis-Devesa**
14:20	YO-73	Enhancing lignin recovery from coconut husk: innovations with deep eutectic solvents for sustainable biomass processing **Mar Todolí Carbonell**
14:30	YO-74	Hydrogel-based stochastic sensor for simultaneous determination of VCAM-1, IL-6, and NPPC - an innovative approach in the early diagnosis of cardiovascular diseases **Andrada-Ioana Stefan**

14:40	YO-75	Sustainable valorization of bioactive compounds from chestnut hedgehogs biowaste: a biorefinery approach **Sandra Rodríguez-Blázquez**
14:50	YO-76	Development of DLLME-based method using nades in combination with LC-MS/MS for the determination of illicit drugs in urine samples **Pol Clivillé-Cabré**
15:00	YO-77	Microwave-assisted extraction of proteins form citrus peels: A comparative study of different proteases to obtain bioactive hydrolsylates **Rosa María Palma-Manrique**
15:10	YO-78	A Novel Sorbent Strip Microextraction (SSµE) technique for opioids and local anaesthetics determination in urine **Marisa Maria**
15:20	YO-79	Validation of an analytical method for residual pesticide quantification in HDPE agrochemical containers using UPLC-MS/MS **Mohammad Amin Piltan**

Room 131+132	Young Oral	
14:00	YO-89	Enhancing detection sensitivity in gas chromatography by cooling a nano-gravimetric detector down to -100°C **Ambroisine Michel**
14:10	YO-90	Sustainable recovery of antimicrobial compounds from ginger and turmeric wastes using subcritical water extraction and high intensity focused ultrasounds: Identification by RP-UPLC-ESI-QTOF **Carlos Rubio Marín**
14:20	YO-91	Analysis of complex metabolomic abnormalities of patients suffering from genitourinary cancer using untargeted HPLC-MS-based metabolomics **Anastasiia Frolova**
14:30	YO-92	An insight into European tea (Camellia sinensis) infusions: polyphenols profile, antioxidant activity, and sensory analysis **Benedetta Fanesi**
14:40	YO-93	Ion mobility spectrometry and machine learning for rapid detection and quantification of adulteration in cocoa powder **Stephen Adusei**
14:50	YO-94	Syringe residue analysis as indicator for tracking intravenous drug use in Spain **Carlos Pernas Fraguela**
15:00	YO-95	Integration of omics and spectroscopic approaches for novel potential biomarker discovery of HCC **Antonio Malinconico**
15:10	YO-96	Optimization of a QuEChERS-based LC-HRMS analytical method to determine CECs in organic lettuce irrigated with reclaimed water and its potential risk **Dana Pierina Orlando Véliz**
15:20	YO-97	Novel approach of estimating airborne microplastics concentration in plastic processing workplaces **Leonardo Barlucchi**

Room 118+119	Young Oral Electroanalysis	
14:00	YO-80	Comparative electrochemical study of graphene-based nanomaterials toward dopamine **Albina Mikhraliieva**

14:10	YO-81	HPLC-PAD: A useful amperometric detection approach for the determination of organic molecules with complex electrochemical behaviour **Josep Pages-Rebull**
14:20	YO-82	Integration of paper-based electrodes into lateral flow assay for electrochemical detection **Elif Çalık Kayiş**
14:30	YO-83	Comparative fabrication and electrochemical characterization of NiHITP MOFs via solvothermal synthesis and anodic deposition **Suvi Lamminmäki**
14:40	YO-84	Voltammetric studies of alkaloid atropine on boron-doped diamond electrodes for forensic applications **Olha Dushna**
14:50	YO-85	Membrane-extraction assisted electrochemical aptasensor for antibiotic residue determination in raw milk samples **Kristóf Jakab**
15:00	YO-86	A non-invasive sensing platform for creatinine, cystatin C, and urea detection in human sweat for kidney disease monitoring Elena De Gregorio
15:10	YO-87	A green approach in dactyloscopy: Curcumin deposition on metal surfaces with fingerprints and their characterization **Kristýna Havelková**
15:20	YO-88	Customized gold-silica nanoconjugates for sensitive electrochemical immunosensing of chemokine Ligand-12 in colorectal cancer scenarios **Andrea Cabrero-Martín**

15:30	**Coffee break & poster session III in the exhibition area**

Room 112	**Session 20: Sensors: bioanalytical appl. II**	
16:30	O-113	Novel approach in identification a panel of biomarkers in cardiovascular diseases **Ruxandra-Maria Ilie-Mihai**
16:45	O-114	Digital dipstick: next-generation green point-of-care solution **Loïc Burr**
17:00	O-115	Next-gen diagnostics: CRISPR-chip for monoclonal antibodies quantification at the point-of-care **Stefano Del Giovane**
17:15	O-116	Electrochemical determination of Vitamin K2 and the role of its homologs in colorectal cancer research **Katarzyna Jedlińska**
17:30	O-117	Following the permeation of diclofenac in real time through a model membrane or skin **Maria Teresa S. R. Gomes**
17:45	O-118	CRISPR-Powered monitoring of DNA repair activities using synthetic DNA transducers **Neda Bagheri**

Room 133+134	**Session 21: Forensics/ Separation techniques**	
16:30	O-125	Similarity of human scent among blood relatives **Ulrika Malá**

16:45	O-126	Simultaneous characterization of volatile and low-volatile fractions of banned carbofuran formulations for source tracing using a Liquid-Electron Ionization (LEI) Interface **Genny Grasselli**
17:00	O-127	Smart and green fire debris characterization using headspace sorptive extraction and machine learning **Marta Ferreiro González**
17:15	O-128	Estimation of beta-blocker consumption in the urban population using the wastewater-based epidemiology approach **Mihail Simion Beldean-Galea**
17:30	O-129	Evaluation of Eco-friendly solvents for HPLC **Frank Michel**
17:45	O-130	Improving exhaled breath sampling for advancing volatilome Research **Carlo Crescenzi**

Room 131+132	Session 22: TG-3D printing	
16:30	O-131	Development of electrochemical sensors with 3D printing technology for the analysis of drugs of abuse **Manel del Valle**
16:45	O-132	3D Printing in analytical chemistry: revolutionizing sample preparation and sensors **Enrique Javier Carrasco-Correa**
17:00	O-133	Fully 3D-printed electrochemical devices: a game-changer for (bio)sensing applications **Panagiota Kalligosfyri**
17:15	O-134	3D-Printed MIL-100(Fe)-SO_3H Column for the Preconcentration and Extraction of Nonsteroidal Anti-Inflammatory Drugs (NSAIDs) from Water **Neus Crespí Sánchez**
17:30	O-135	A low-cost 3D-printed autosampler and auxiliaries for Lab-In-Syringe automated liquid phase microextraction approaches **Burkhard Horstkotte**
17:45	O-136	3D-Printing in analytical chemistry: challenges and opportunities **Marcela A. Segundo**

Room 118+119	Session 23: Circular economy	
16:30	O-119	Comprehensive characterization of sheep wool from dominant Croatian breeds: A renewable resource for agroecosystems **Sanja Stipičević**
16:45	O-120	Enabling sustainable protein production: NMR as a process monitoring tool in cultured meat (CM) production and enzymatic protein hydrolysis of byproducts Sileshi Wubshet
17:00	O-121	Pressurized liquid extraction for the sustainable recovery of proteins from lemon peels. Characterization of protein hydrolysates by UHPLC-MS/MS **Esther Gómez-Mejía**
17:15	O-122	Sustainable valorization of orange peel waste: optimized pressurized liquid extraction of phenolic compounds and high-purity limonene **Merichel Plaza**
17:30	O-123	Lipid profiling of insect flour oils for biomass valorization and enhanced nutritional value using LC-MS/MS **M. João Nunes**

17:45	O-124	Advances in analytical chemistry and mass spectrometry to support a sustainable and circular economy **Engelhard Carsten**

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Room 112	Keynote lecture	
09:00	KL-18	Suspect and non-target analysis for determination of pesticides and emerging contaminants in water and food samples **Dimitra Lambropoulou**

Room 133+134	Session 24: Separation techniques: environmental appl. II	
09:30	O-143	Facile detection of hydrogen sulfide through digital image using photo-generated citrate-capped silver nanoprisms **Apichat Imyim**
09:45	O-144	Surfactant quantification in agrochemicals - overcoming analytical challenges **Jonathan Falchetto-Bruckner**
10:00	O-145	Understanding phthalic acid esters contamination in manta ray and stranded dolphin tissues **Javier González-Sálamo**
10:15	O-146	Using functionalized polymeric membranes to predict metal bioavailability in aquatic organisms and plants **Enriqueta Anticó**
10:30	O-147	Recent developments in sample preparation for the analysis of VOC in the wood-based panels industry **Rui Miguel Ramos**
10:45	O-148	Rapid and automatized extraction protocols for the monitoring of pesticides in Cannabis Sativa L. inflorescence by means of chromatography techniques coupled to mass spectrometry. **Giuseppe Micalizzi**

Room 133+134	Keynote lecture	
09:00	KL-19	Where scent meets diagnosis: Data-driven volatolomics and chemometrics **Agnieszka Smolinska**

Room 112	Session 25: Bioanalysis	
09:30	O-137	In-capillary enzymatic digestion for the targeted bottom-up analysis of protein biomarkers by capillary electrophoresis-mass spectrometry **Estela Giménez**
09:45	O-138	Ambient Droplet Reactor: An Analytical Platform for Single-molecule Manipulations and Characterizations **Peng Zhang**
10:00	O-139	Fit-for-purpose development of Lateral Flow Immunoassays detecting infectious diseases: unravelling the impact of the bioanalytical chemistry on the epidemic outbreaks control. **Simone Cavalera**
10:15	O-140	Direct Injection ESI-MS analysis of proteins with high matrix content: utilizing taylor–aris dispersion **Attila Gaspar**

10:30	O-141	Electrochemical immunosensors: a valuable strategy for microbiome screening **Esther Sánchez-Tirado**
10:45	O-142	Gas-phase electrophoresis (nES GEMMA instrumentation) of exhaled breath condensate (EBC) **Victor Weiss**

Room 131+132	Keynote lecture	
09:00	KL-20	The new frontiers in food and feed risk assessment **Claudia Paoletti**

Room 131+132	Session 26: Food chemistry	
09:30	O-149	Determination and imaging of volatile flavor compounds by girard's reagent t derivatization technique **Hitomi Shikano**
09:45	O-150	Integrating omics strategies to differentiate paprika from key geographical producers: UHPLC-Q-Orbitrap-HRMS-based untargeted metabolomics and lipidomics **Araceli Rivera-Pérez**
10:00	O-151	New perspectives beyond traditional approaches in wine authentication based on targeted and untargeted metabolomics **Javier Saurina**
10:15	O-152	Using electric pulses as a pre-treatment for enhancing the sonotrode extraction of phenolic compounds with antioxidant and antidiabetic activity from mango leaves **Vito Verardo**
10:30	O-153	Benzene in mechanically recycled PET: analytical aspects and new methodologies to reduce non-intentionally added substances in food packaging. **Cedric Guignard**

Room 118+119	Keynote lecture	
09:00	KL-21	Looking at works of art with X-ray eyes: non-destructive spectroscopic imaging and analysis **Koen Janssens**

Room 118+119	Session 27: Instrumental innovation	
09:30	O-154	Pharmaceutical and forensic real-time analysis using extractive-liquid sampling electron ionization-mass spectrometry (E-LEI-MS) **Adriana Arigò**
09:45	O-155	Recent update on the sensor event-driven column chromatography system **Jong Kwang Lee**
10:00	O-156	An IR-transparent chip for infrared spectroscopic reaction monitoring in digital microfluidics **Sebastian Fehse**
10:15	O-157	Direct ambient plasma mass spectrometry analysis enhanced by molecularly imprinted PEI: Sensitive detection of herbicides in environmental waters **Tomasz Nazim**
10:30	O-158	An adjustable and flexible laboratory sample divider **Claudia Beleites**

10:45	O-159	Multidimensional preparative gas chromatography: a sustainable approach for isolating target analytes for downstream biological assays **Danilo Sciarrone**

Room 112	DAC Award	
11:30	PL-DAC	Sensors, tools for biointelligence? **Gauglitz Günter**

POSTER SESSION 1

Environmental chemistry	
P1-001	Black carbon impacts on snowpack: a coupled modeling framework of optical albedo, snow metamorphism, and deposition of black carbon obtained from satellite data **Marcelo Marambio**
P1-002	Electrochemical sensors based on phenyl isothiocyanate diazonium salts for toxic compounds detection in complex samples **Bogdan Bucur**
P1-003	First approach to the consumption of psychoactive substances in Santiago de Chile based on wastewater analysis **Wendy Calzadilla**
P1-005	A selective electrochemical approach to defluorinated active pharmaceutical compounds in aquatic environments **Olha Dushna**
P1-006	Determination of per- and polyfluoroalkyl substances in household dust of breastfeeding mothers by UHPLC-HRMS **Esther Fuentes-Ferragud**
P1-007	The interaction of perfluorinated contaminants with peptides and proteins **Andrei Jarashneli**
P1-008	Urban Sandboxes: A microplastic menace? **Karina Krzciuk**
P1-009	Trace analysis of amisulpride, citalopram, metoprolol, candesartan and irbesartan in wastewater samples by liquid chromatography-tandem mass spectrometry **Lixy Olinda León-Morán**
P1-010	Green leaching approach for the recovery of metals from spent LCO cathode materials **Jasmina Mušović**
P1-011	Environmentally friendly extraction of lithium and iron via ionic liquid-based aqueous biphasic systems **Jasmina Mušović**
P1-012	Spectrofluorimetric determination of trifluralin with carbon nanomaterial synthesized from olive pits **Nurhayat Özbek**
P1-013	Assessing toxicity and chemical profile of artificial and natural salt marsh sediments to evaluate the impact of restoration activities in the Venice Lagoon (Italy) **Silvia Pettenuzzo**
P1-014	Fast determination of haloacetic acids in drinking water by Online SPE-LC-MS/MS **Massimo Picardo**
P1-015	Comparison of three different total oxidizable precursor (TOP) assay approaches for the determination of PFAS in soil **Christian Piechotta**
P1-016	Quantification and suspect screening of plant protection products in surface and ground waters from intensive viticulture areas by liquid chromatography accurate mass spectrometry **Isaac Rodríguez-Pereiro**
P1-017	Tracking pharmaceutical contaminants in Tagus River Basin (Spain): a suspect screening approach with UHPLC-HRMS. **Silvia Royano**

P1-018	Analytical method development for the detection of Tire Rubber-Derived Additives in Wastewater. **Silvia Royano**
P1-019	Preparation and evaluation of activity for immobilized nicotinamidase based on cedar **Murata Ryoya**
P1-020	Elemental composition and isotope ratio analysis of honeys from US East Coast **Zsófi Sajtos**
P1-021	Evaluation of benzophenone-3 and octocrylene adsorption on polyethylene using HPLC-MS/MS and voltammetry with screen-printed electrodes **Núria Serrano**
P1-022	The role of carbon fractions in the accumulation of trace elements in forest soil (sub)horizons **Agnieszka Sołtys**
P1-023	Sustainable regeneration of activated carbon saturated with organic pollutants using ionic liquid systems **Danijela Tekić**
P1-024	Influence of pH and temperature on ionic liquid-based aqueous biphasic systems with potassium phosphate: potential for targeted molecule separation **Danijela Tekić**

Food chemistry	
P1-025	Fatty acid-based deep eutectic solvent-induced coacervation in micellar solution of alkyl polyglycoside surfactant: supramolecular solvent formation and application in food analysis. **Christina Vakh**
P1-026	Effect of UV-LED Irradiation on bacterial disinfection and viability, chemical composition, and sensory evaluation of black pepper **Víctor Arcos-Limiñana**
P1-027	Chemical fingerprint and sensory analysis of UVC-irradiated black, white, green and pink peppercorns using a scalable reactor **Víctor Arcos-Limiñana**
P1-028	Applications of chromatography for analyzing bee products **José Bernal**
P1-029	Comparison of plant-based meat alternatives and meat **Adem Cakar**
P1-030	Development of an electrochemical sensor based on Ce-MOF@MIP composite for sulfamethoxazole detection **Slađana Đurđić**
P1-031	Optimized saponification for MOSH and MOAH analysis in food matrices: addressing internal standard variability **Donatella Ferrara**
P1-032	Development and validation of a green and practical method for studying pesticides and related chemical compounds in bee pollen samples by UAE-LC-QTOF-MS **Adrián Fuente-Ballesteros**
P1-033	Comprehensive analysis of pesticide residues in edible wild greens using GC-MS/MS and LC-MS/MS techniques **Ah-Yong Jeong**
P1-034	Exploring the phenolic composition of matcha tea **Joanna Kika**

P1-035	Determination of aldehydes in edible oil samples employing 1-naphthalenyl hydrazine as derivatizing agent followed by HPLC-FLD **Jorge Lopez-Tellez**
P1-036	Microwave mineralisation and atomic absorption spectrometry (AAS) as analytical methods in the fight against hidden hunger. **Roksana Łosak**
P1-037	Analysis of anthropogenic particles and microplastics in packaged drinks from Spain **Pablo Miralles**
P1-038	Characterization and classification of honey through HPLC-UV fingerprinting **Danica Mostoles**
P1-039	Meat authentication (protected geographical indication, organic production, and Halal and Kosher products) by HPLC-UV fingerprinting and chemometrics **Oscar Núñez**
P1-040	Characterization, classification, and authentication of coffee using HS-SPME-GC-MS and chemometrics: a comprehensive approach for detecting adulteration **Nerea Núñez**
P1-041	Authenticity assessment and fraud detection of true cinnammon by targeted HPLC-UV and chemometrics **Josep Pages-Rebull**
P1-042	Complex analytical investigation of natural and artificial sweeteners **Ágota Ragyák**
P1-043	Occurrence and distribution of pesticides in wines from two major production regions in the North of Spain **Isaac Rodríguez Pereiro**
P1-044	Multi-element analyses of yerba mate - an unique sample matrix from chemical and consumer point of view **Anna Różewska**
P1-045	Onsite testing for Brettanomyces Bruxellensis contaminations during winemaking **Jean-Manuel Segura**

Bioanalysis	
P1-046	A versatile, self-powdered and sustainable platform for wireless electrochemical measurements **Guillaume Bouilly**
P1-047	Peroxidase-like activity of a supramolecular network including copper and WS2 nanodots and their application for hydrogen peroxide determination **Elena Casero**
P1-048	Eco-friendly two-dimensional stochastic enantioselective sensor for the early identification of brain cancer **Catalina Cioates Negut**
P1-049	UPLC-MS/MS analysis of oxysterols profile: a possible marker for embryo development monitoring **Federico Fanti**
P1-050	Determination of polyphenols in food employing UPLC-ESI-QQQ-LIT-MS Strategies for the identification of polyphenols **Federico Fanti**
P1-051	First Application of QuEChERS extraction and GC-MS for PAHs detection in human adipose tissue **Alice Franchin**

P1-052	Methodologies based on the formation of duplex and triplex DNA structures and fluorescent silver nanoclusters for the detection of pyrimidine-rich DNA sequences **Raimundo Gargallo**
P1-053	Advancing neuroprotection through avocado peel extracts: integrating bioanalytical techniques and circular economy principles **Esther Gómez-Mejía**
P1-054	Gelatin photonic crystals as wearable biosensors for biomarkers monitoring in sweat **Roberto Maria-Hormigos**
P1-055	Improving the performance of electrochemical immunosensing by exploiting a novel electrode modifier that imparts antifouling properties and enables efficient immobilization of biomolecules **Verónica Serafín**
P1-056	Innovating therapeutic drug monitoring: aptamer-based biosensor for rapid and efficient irinotecan analysis **Elena Sossich**
P1-057	Study of the operating conditions for Taylor-Aris dispersion assisted mass spectrometry **Ruben Szabo**
P1-058	A Dual Colorimetric and Fluorescent Sensor for Non-enzymatic Glucose Detection via Catalytic Reaction with o-Phenylenediamine Mediated by C-Dot-Decorated Fe3O4 Nanoparticles **Wei-Lung Tseng**
P1-059	Derivation of human toxicokinetic parameters and chemical-specific adjustment factor of citrinin through a human intervention trial and hierarchical Bayesian population modeling **Lia Visintin**
P1-060	Application of GC-MS/MS method for detection of methandienone and its metabolites in human urine to anti-doping control: Analysis of trends over time and potential origines of methandienone **Marzena Wojtowicz-Zawadka**
P1-061	quantification of labeled and unlabeled ketone bodies in serum by deuterated β-hydroxybutirate and AcAc stable isotopes as internal standards **Sandra Adámez-Rodríguez**
P1-062	Evaluation of the digestibility and bioaccessibility of free vs. encapsulated neuroprotective extracts using the InfoGEST Protocol **Victor M. Amador-Luna**

Green methodologies	
P1-063	Development and optimization of green colorimetric method for chlorate determination in aqueous medium using indigo carmine **Ainara Cirion**
P1-064	Microwave-assisted extraction of proteins from Acheta domesticus. **Miriam Guzmán Lorite**
P1-065	Elemental contamination during the manufacture of semi-solid dermocosmetic formulations **Jasna Jablan**
P1-066	Dispersive miniaturized solid-phase extraction using metal-organic frameworks and high-performance liquid chromatography with diode array detection to determine phytochemical compounds in aloe vera samples **Sara Lara-Torres**

P1-067	Analysis of triclosan and their photolytic transformation products in water using in situ ionic liquid microextraction and liquid chromatography with mass spectrometry **Lixy Olinda León-Morán**
P1-068	Greenness Assessment of Official Analytical Methods and equivalent Methods utilizing SPME for Sample Preparation **Maria Lopez Garcia**
P1-069	The use of eutectogel as a green polymeric sorbent for efficient heavy metal extraction from food samples using electrochemically controlled solid-phase microextraction **Andrea Marco Córdoba**
P1-070	Biodegradable active films with olive Leaf NaDES extracts for sustainable food packaging **Aina Mir-Cerdà**
P1-071	High-resolution mass spectrometry for polyphenol profiling in olive leaf NaDES extracts **Aina Mir-Cerdà**
P1-072	Environmentally friendly and high-throughput multi-mycotoxin determination in human urine by UHPLC-MS/MS **Borja Peris-Camarasa**
P1-073	Greening the derivatization process: aryl amines as study case **Lourdes Ramos**
P1-074	Advanced extraction techniques in combination with natural deep eutectic solvents for the improved extraction of saffron (Crocus sativus) bioactives. **Marta Rivas Piña**
P1-075	Polyoxyethylene(10)tridecyl ether: Expanding the potential of micellar liquid chromatography without organic solvents **Maria Jose Ruiz Angel**
P1-076	Determination of lithium battery electrolyte composition with polyarc microreactor **Waldemar Weber**
P1-077	Shrimp shell-based biosorbent for Thin-Film Microextraction of Rhodamine B and Rhodamine 6G from aqueous samples **Daniel Arismendi**
P1-078	Biodegradable film-based extraction of emerging contaminants: A sustainable strategy within the white analytical chemistry framework **Erica Ceccardi**
P1-079	Screening of Natural Deep Eutectic Solvents to extract bioactive compounds from a wheat-based pharmaceutical waste **Lidia Ciriaco**
P1-080	Eco-friendly extraction and separation of organic contaminants in complex food samples using Natural Deep Eutectic Solvents and nano-LC **Álvaro Santana Mayor**
P1-081	Added-value of agronomic wastes: Green extraction and UHPLC-MS/MS analysis of phthalic acid esters in banana leaves using Natural Deep Eutectic Solvents **Adrián Conde-Díaz**

Separation techniques	
P1-082	Simultaneous enantiomeric determination of tryptophan-related metabolites by electrokinetic chromatography. application to the analysis of urine samples **Sandra Adámez-Rodríguez**

P1-083	A combination of vortex-assisted liquid–liquid microextraction with fluorescence detection (VALLME-FLD): An innovative approach for a green and highly sensitive analysis **Yaroslav Bazel**
P1-084	Development and validation of an analytical method by micellar liquid chromatography for degradation studies of chemotherapeutic drug irinotecan **Samuel Carda Broch**
P1-085	Validation studies for determination of lamivudine and its derivatives by direct injection - micellar liquid chromatography **Samuel Carda Broch**
P1-086	Performance comparison of different GC-HRMS analytical methods for quantitation of fragrance allergens in perfume concentrates **Aurélien Cuchet**
P1-087	Accurate and robust method for plant volatilome analysis by GC-MS **Marysol Ferretti**
P1-088	Enantiomeric separation of duvelisib by electrokinetic chromatogaphy. application to the quality control of pharmaceutical formulations and to the analysis of serum and wastewater samples **Laura García-Cansino**
P1-089	Comparison of degradation kinetics and products of novel drugs: etrasimod and ritlecitinib **Jelena Kovačić**
P1-090	Chromatographic retention and enantioresolution of chiral compounds using Cellulose-1 and Cellulose-5 chiral stationary phases and aqueous acetonitrile mobile phases **Yolanda Martín-Biosca**
P1-091	Exploring chromatographic retention and enantioresolution of chiral compounds using Cellulose-2 and Cellulose-4 stationary phases in liquid chromatography **Yolanda Martín-Biosca**
P1-092	Exploration of retention mechanisms of porous graphitic carbon as a stationary Phase in HPLC **Frank Michel**
P1-093	HPLC performance of wide-bore monolithic columns based on pentaerythritol tetraacrylate and polyhedral oligomeric silsesquioxane-methacrylate **Dana Moravcová**
P1-094	Fast reaction yield monitoring by CE analysis of dicarboxylic acids in kerogen valorisation process **Kati Muldma**
P1-095	From RPLC to surfactant-modified liquid chromatography: A unified model for retention across separation modes **Maria Jose Ruiz Angel**
P1-096	Versatile application of a novel supramolecular deep eutectic solvent as a chiral selector in capillary electrophoresis for the enantioseparation of psychoactive substances **Ioannis J. Stavrou**
P1-097	Modelling retention in liquid chromatography: evaluating solute-solvent interactions in reversed-phase and HILIC by means of Abraham's solvation parameter model **Xavier Subirats**
P1-098	An enhanced high-sensitivity and large-scale metabolomics platform for characterization of human exposome **Ana Lucía Valdéz Micheo**

P1-099	In-trap headspace liquid-phase microextraction for highly sensitive spectrophotometric determination of bromide in water samples **Andriy Vishnikin**
P1-100	Intact protein analysis of snake venoms with CZE-MS **Gayatri Vishwakarma**
P1-101	Coupling supercritical fluid chromatography with ion mobility spectrometry: a miniaturized chip-based platform for rapid analysis **Klaus Welters**
P1-102	Recent advances in the adsorptive recovery of Rare Earth elements **Volodymyr Zaitsev**
P1-103	Analysis and characterization of algal peptides: a chromatography- and mass spectrometry-based approach **Jessy Pavon**
P1-104	Extreme pressure colloidal NanoLC-MS/MS for ultra-fast in-depth proteomics and low-input sample **Hanrong Wen**
P1-105	Quantifying colibactin: An online solid-phase extraction-LC-MS/MS method for assessing genotoxin production in diverse microbial species **Lucas Ortmann**
P1-106	Unraveling human lymphoma cell phospholipid compositions by means of LC-MS/MS utilizing mobility resolved fragmentation **Dominik Wieland**
P1-107	Analytical method based on UHPLC-MS/MS for the targeted analysis of multi-class PFASs in atmospheric particulate matter **Joel Sánchez-Piñero**
P1-108	Development of a UHPLC-QTOF-MS method for the comprehensive analysis of bioactive compounds in Aloe vera leaves **Álvaro Santana-Mayor**

Spectroscopy	
P1-109	Accurate simulation of benchtop NMR Spectra with HQSpectrum **Sonia Álvarez-Barcia**
P1-110	Spermine as a stabilizer of HEPES-based gold nanoparticles: UV/Vis and SERS study **Adriana Kenđel**
P1-111	Development of a simultaneous analytical method for pesticide residues in herbal medicines using modified QuEChERS and UPLC-MS/MS **Jinchul Kim**
P1-112	A multi-technique approach based on micro-Raman spectroscopy and environmental scanning electron microscopy for the determination of small microplastics in milk powder: a focus on analytical challenges and metrological issues **Monica Mattarozzi**
P1-113	A comparative study of robustness to noise and interpretability in raman spectral denoising with U-Net Architectures **Azadeh Mokari**
P1-114	Comparative study on the influence of sample introduction system on the size uncertainty in the case of Ag and Pt nanoparticle characterization by single particle ICP-MS (spICP-MS) **Veneta Pandeva**

P1-115	Machine learning-assisted SERS analysis of nanoplastic particles **Saijie Wang**
P1-116	GC/QqQ Method for qualitative analysis of androst-3,5-diene-7β-ol-17-one in human urine: validation and application to anti-doping control **Marzena Wojtowicz-Zawadka**
P1-117	Identification of microplastic particles exposed to environmental and biological media based on their nanosecond and femtosecond LIBS spectra **Fernando Alexander Casian Plaza**
P1-118	Polarization Modulation Infrared Reflection Absorption Spectroscopy (PM-IRRAS) as a tool for investigating low-dimensional materials **Sebastian Wöhrer**
P1-119	SERS analysis of naringenin using gold and silver nanoparticles **Snežana Miljanić**
P1-120	Metals and metalloids in different size fractions of printed circuit boards by inductively coupled plasma optical emission spectrometry (ICP-OES) **Diana Amorello**
P1-121	Nanoscale imaging and identification of constituent phases within Ca-based non-metallic inclusions in ultra-high strength steels **Mourad Kharbach**

Instrumental innovation	
P1-122	Preparation of standardized plastic microparticles by vat photopolymerization 3D printing for studies aiming at their detection by laser spectroscopy **Ádám Bélteki**
P1-123	The performance of CCD spectrometer-based UV-VIS detector for portable microcolumn liquid chromatography device **Zuzana Gogaľová**
P1-124	Comparison of various methods for determining nsaids in equine blood and urine samples **Anna Jarek**
P1-125	Comparison among incandescent, supercontinuum laser, and super luminescent diode excitation sources in portable NIR-SWIR hyperspectral scan imaging **Lorenzo Marzini**
P1-126	100-fold reduction in the quantification limit of natural gas odorant by GC by cooling a nano-gravimetric detector **Ambroisine Michel**
P1-127	Molecular characterization of Abelmoschus manihot flower and its metabolites in plasma by 2D-Carbon Microfiber Fractionation and QTOF-HRMS **Maurizio Quinto**
P1-128	The potential of X-Ray Fluorescence spectroscopy as a universal, elemental detector for HPLC: the analysis of organobromines. **Gaëlle Spileers**
P1-129	Analytical application of EDTA-stabilised silver nanoparticles **Oliwia Świerczyna**
P1-131	Simple analytical device for photometric determination of ethanol in alcoholic beverages **Bartłomiej Trojanowski**

P1-132	Electrospray vs. UniSpray - comparison for the analysis in terms of compounds prohibited in sport **Mariola Wicka**
P1-133	Development of the compact and lightweight liquid handling robot **Jong Kwang Lee**
P1-134	Full comprehensive two-dimensional liquid chromatography for achiral–chiral separation of proteinogenic amino acids **José Meneses**
P1-135	Oxygen attachment dissociation-enhanced MALDI imaging for spatially resolved isomer identification **Stephane Moreau**
P1-136	An integrated approach based on high resolution mass spectrometry for the determination of leachable substances from cosmetics packaging **Erika Ribezzi**
P1-155	A multifunctional microfluidic chip for sensitive absorption and refraction measurement **Jiukai Tang**

Cultural heritage	
P1-137	A semi-quantitative method to analyze wall paintings coupling spectroscopy and imaging with Machine Learning **Manel Alcalà-Bernàrdez**
P1-138	Characterization and quantification of free amino acids in ancient dental enamel **Zohreh Chahardoli**
P1-139	Characterisation and provenance of rhyolite from Corsica by smartphone imaging colorimetry **Pepe Llopis-Devesa**
P1-140	Standard addition quantification of arsenic in poisoned books using portable x-ray fluorescence **Diego Ahumada-Forigua**

POSTER SESSION 2

Environmental chemistry	
P2-001	Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in waste-derived pyrolysis oils using GC-MS/MS **Andrea Vernerová**
P2-002	Visible-light-driven biochar based CoFe2O4/nZVI heterojunction activating peroxymonosulfate for simultaneous ibuprofen, tetracycline oxidation and Cr(VI) reduction **Ye Yang**
P2-003	Preparation of a New Magnetic Bio-Nanoparticle Adsorbent and its Application for Separation and Preconcentration of Cd(II) Ions in Environmental Samples: Optimization through Response Surface Methodology **Aslıhan Yilmaz Çamoğlu**
P2-004	Preparation of Co(II) phthalocyanine coatings and investigation of their antibacterial and surface properties **Çağla Akkol**
P2-005	Lipidomic analysis and neurotoxic effects of DINP and DEHP Phthalates in SH-SY5Y Cells and Brain Organoids **Esmeralda Ayala**
P2-006	Analysis of antibiotic residues in sewage sludge: optimization of extraction techniques and occurrence in WWTPs. **Andrés Barros**
P2-007	Pharmaceutical residues in sludge from wastewater treatment plants **Andrés Barros Soto-Quiroga**
P2-008	Development and optimization of green colorimetric methods for chlorate determination in aqueous medium **Ainara Cirion**
P2-009	Cu, Fe and Zn isotopic analysis of parasitised edible fish: a step forward in understanding host-pathogen metallomics **Ainhoa Collazo Abalo**
P2-010	Enhancing sensitivity and accuracy in PFAS analysis: method development and optimization for reliable monitoring of environmental and biological matrices **Alessia Fabbris**
P2-011	Exploring the detection limits of a thermo-analytical method based on image analysis of microplastics **Federico Figueredo**
P2-012	Formaldehyde determination in particleboards: the potential of the GDME-HPLC-DAD methodology as an alternative to current standards **Fátima Daniela Gonçalves**
P2-013	ICP-MS recording of rare earth element sorption onto alginate-encapsulated iron nanoparticles **Nikolina Ilić**
P2-014	Development of analytical methods for the multiresidual determination of food and lifestyle biomarkers in wastewater using UHPLC-MS/MS **Karlo Jambrošić**
P2-015	Investigating microplastic-contaminant sorption using SPME coupled to LEI-QqQ **Achu Kuriakose**

P2-016	Analytical potential of X-ray fluorescence spectrometry based techniques in studies dealing with the presence and adsorption of metals in microplastics **Eva Marguí**
P2-017	Novel techniques for ultra-sensitive detection of PFAS in LC-MS/MS **Stephane Moreau**
P2-018	Mineral composition of peloids in southwestern serbian spas **Tijana Mutić**
P2-019	Radiological assessment of therapeutic peloids from serbian spas **Tijana Mutić**
P2-020	Determination of impacts of metal pollutants on water from Vransko lake Croatia by ICP-MS **Ivan Nemet**
P2-021	Elemental composition and Bio-based content of polymers using ICP-OES and 14C techniques **Klaudia Nikoletta Pap**
P2-022	Occurrence and assessment of Per- and Polyfluoroalkyl Substances in air and water samples. **Massimo Picardo**
P2-023	Enhancing micropollutant removal efficacy through the microlog concept: novel ozonation approaches in wastewater treatment systems **Ana Piera Santacruz**
P2-025	Presence and characterisation of microplastic residues in all hydrographic basins of Catalonia **Natalia Rodríguez Murillo**
P2-026	Unveiling contaminants of emerging concern: a study on water quality in the Mapocho River Basin (Chile) **Ricardo Salazar-González**
P2-028	Determination of pharmaceuticals and personal care products in biofilms and Lemna by a modified QuEChERS-based UPLC-MS/MS method and its application to natural waters and nature-based water treatment systems **Anna Cristina Suñer**

Food chemistry	
P2-029	Detection of potato diseases via volatile organic compound analysis **Sarah Vermeeren**
P2-030	Strategies for the isolation of arsenosugars extracted from algae **Dolores Barrón**
P2-031	Extraction and characterization of bioactive compounds from cocoa bean shell using green approaches **Sk Fahim Tahmid Boni**
P2-032	Generic SUPRAS-Based microextraction method for the determination of mycotoxins in solid and liquid food products **Noelia Caballero-Casero**
P2-033	Analysis of pesticide residues and mycotoxins in freeze-dried fruit: potential risk for children **Eva Czmorik Ludvickova**
P2-034	Determination of the improvement of phenolic compounds recovery from mango by-products by HPLC-ESI-TOF-MS after lactic acid fermentation **Ana María Gómez Caravaca**

P2-035	Novel microwave-assisted cloud point extraction prior to gas chromatography-mass spectrometry for determination of organochlorine and organophosphorus pesticides in fruit juices **Asya Hristozova**
P2-036	Determination of trace arsanilic acid in fishery and livestock products by high-performance liquid chromatography tandem mass spectrometry **Jinhong Kim**
P2-037	NIAS and IAS migration from dry food: systematic optimization and validation of contact, extraction and determination steps. **Mariachiara Lo Scalzo**
P2-038	Challenges and strategies in analyzing PFAS in food products **Maria Lopez Garcia**
P2-039	Assessment of volatile aromatic compounds in dealcoholized wines using SBSE-GC-MS and machine learning modelling. **José Oliva Ortiz**
P2-040	On-going method performance verification in food pesticide analysis through a single control chart. **José Oliva Ortiz**
P2-041	Determination of Acrylamide content in key food sources within the Mediterranean framework **Borja Peris-Camarasa**
P2-042	Green extraction of carotenoids from orange peel using CO2-Expanded Ethanol: A sustainable approach **Merichel Plaza**
P2-043	Advanced analytical strategy for monitoring pyrrolizidine and tropane alkaloids in honey **Paula Ponz-Perelló**
P2-044	Orange juice fortification with phenolic compounds from food by-products: sensorial and chemical evaluation **María Del Carmen Razola Díaz**
P2-045	Pressurized liquids extraction of proteins from cricket (Acheta domesticus) flour. characterization of protein extracts and their hydrolysates **Carlos Rubio Marín**
P2-046	Development of a rapid UHPLC-UV method for red wine classification and authentication based on phenolic compound profiling **Javier Saurina**
P2-047	TF-SPME: A powerful technique for analyzing odorants in alcoholic beverages **Martyna Wieczorek**
P2-139	Assessment of between-bottle homogeneity, particle size and element content of candidate reference materials of black cricket (Gryllus assimilis) in natura employing wavelength dispersive X-ray fuorescence spectrometry **Maria José Gomes**

Bioanalysis	
P2-048	Microbeads from recycled polystyrene polymer waste: a sustainable sorbent for in-syringe micro solid-phase extraction. **Ángela Inmaculada López-Lorente**
P2-049	Electrochemical biosensing platforms based on non-covalently functionalized multi-walled carbon nanotubes with biotin-binding proteins **Soledad Bollo**

P2-050	Development of $NiMoO_4$ and $CoMoO_4$-Based Hybrid Materials for Electrochemical Detection of Hydrogen Peroxide **Soledad Bollo**
P2-051	Analytical strategies for the study of bacterial volatilome: A comparison of HS-GC-IMS and HS/SPME-GC-MS **María José Cardador**
P2-052	Concurrent evaluation of a panel of biomarkers pertinent to cardiovascular diseases **Catalina Cioates Negut**
P2-053	Miniaturized graphene field-effect transistor for label-free detection of SARS-CoV-2 spike protein **Fausto Comba**
P2-054	Exosome-based electrochemical genosensing for sensitive detection of IFNγ in immune monitoring applications **Anaixis Del Valle**
P2-055	Holistically uncovering the chemical exposome in pregnant women: contributions of LC-HRMS for an environmental justice perspective **Ruben Gil-Solsona**
P2-056	Antitumoral properties of pomegranate seed protein and peptide isolates. In vitro and in vivo studies in prostate and breast cancer models **Miriam Guzmán Lorite**
P2-057	Analytical support for the toxicological study of atractyloside and analogues **Antoine Lévêques**
P2-058	Rapid stratification of fever syndromes using a Traffic Light-based biosensor for sTREM-1 **Melania Mesas**
P2-059	Mycobacterium detection method combining filtration, immunomagnetic separation, and electrochemical readout in a portable biosensing device **Melania Mesas**
P2-060	Rapid diagnostic test for celiac disease based on deamidated magnetic peptide as a novel biomarker . **Juan Carlos Porras Marichal**
P2-061	Advances in bioanalytical techniques for monitoring inflammation biomarkers **Nikola Přívratská**
P2-136	Microfluidic blisters filled with nanozyme-antibody conjugates **Wiktoria Furmanek**

Analytics for circular economy	
P2-062	LC-Q-Orbitrap-HRMS Untargeted Screening of Migrant Substances from Post-Consumer and Recycled Polyolefins - Evaluation of Decontamination for Food-Contact Applications **Javier Blázquez-Martín**
P2-063	Recycling of HDPE Using bio-based solvents - cleaning efficiency comparison and residual content analysis **Javier Blázquez-Martín**
P2-064	The footprint of pesticide use in agricultural polyethylene **Gabriela Castro**
P2-065	Sustainable extraction and stability assessment of antioxidant and anticholinergic pressurized natural deep eutectic solvent extracts from citrus reticulata leaves **Gloria Domínguez-Rodríguez**

P2-066	Innovative sustainable extraction of blood-brain barrier-permeable non-polar and polar compounds from salvia officinalis l. and eucalyptus globulus labill. for neuroprotective applications **Gloria Domínguez-Rodríguez**
P2-067	Win-Win situation: Storage stable, CO2-neutral synthetic heating fuels – Relief for the climate and reduced cleaning requirements in storage tanks **Laurin Domenic Grabler**
P2-068	PFAS in food contact material: How far can GC-MS take us? **Charlotte Hauschildt**
P2-069	From waste to resource: Sustainable bioactive recovery from hop leaves **Oscar Núñez**
P2-070	From by-products to bioactives: innovative valorization of agri-food waste **Juan José Rodríguez-Bencomo**
P2-071	Levels of biogenic amines in byproducts of soy-based foods: coagulant for tofu production and whey composition. **Juan José Rodríguez-Bencomo**
P2-072	Green and sustainable recovery of bioactive anthocyanins from sloe (Prunus spinosa L.) liqueur residues **Sandra Rodríguez-Blázquez**
P2-073	Innovative approaches for sugar determination in polyphenolrich extracts from agri-food waste **Rubén Titos**
P2-074	Capillary electrophoretic analysis of calcium and magnesium acetate samples produced from oil shale industry waste **Violetta Umerenkova**
P2-075	Evaluation of different electrochemical advanced oxidation processes for the removal of PMT compounds from wastewater at pre pilot scale **Dana Pierina Orlando**
P2-076	Synthesis, characterization and biological activity of copper, titanium and iron nanoparticles by green method using industrial fruit waste **Nuran Gokdere**
P2-077	Green synthesis, characterization, and anticancer evaluation of cerium and copper oxide nanoparticles synthesized from corylus avellana L. Husk extracts **Batuhan Ozturk**
P2-078	Tannic acid-based polymer as a sustainable sorbent for the dispersive solid-phase extraction of persistent contaminants in water samples **Javier González-Sálamo**
P2-079	Hyperspectral imaging coupled with machine learning for precise identification of blended textile fibers in circular economy applications **Mourad Kharbach**
P2-080	Quali- and quantitative determination of the energy potential of biomethane from agricultural products **Debora Mignogna**
P2-081	Exploring the bioactive properties of the Canary Islands banana and Aloe vera by-products: Preliminary results **Adrián Conde-Díaz**
P2-137	Structural and performance analysis of biomass-based PSA enhanced by oligomeric tackifiers **Seunghan Shin**

P2-145	Towards greener workflows with clever method development **Sandra Ruiz Pérez**

Chemometrics	
P2-082	Raman spectral similarity metrics: key challenges and considerations **Sara Mostafapour**
P2-083	Artificial intelligence for modeling structure–enantioresolution relationships in hplc using cellulose-based chiral stationary phases **Carlos Pardo-Cortina**
P2-084	Automating peak tracking in liquid chromatography using global retention models **Pau Peiró Vila**
P2-085	Application of deep machine learning for the classification of 10 types of plastics based on Raman spectra **Szymon Wójcik**
P2-086	Handheld spectroscopy for quality assessment in chemical industry **Sanwouly Marlene Yao**
P2-087	Chemometric Resolution of IM-MS Data: ROIMCR workflow **Ana Torres-Agullo**
P2-088	Improving Benchtop NMR performance through chemometric or AI-based approaches **Camille Pujol**
P2-089	Study of zebrafish early embryonic development using Raman and fluorescence imaging and chemometrics **Rodrigo Rocha De Oliveira**
P2-156	PoliBrush: A didactic software for illustrating the multivariate processing of special images **Paolo Oliveri**

Imaging	
P2-090	Application of digital imaging in nephelometric detection **Justyna Paluch**
P2-091	Methods validation app: a freeware graphical user interface for method validation **Giovanni Solarino**
P2-129	The relationship between maternal hair oleamide and postnatal mental health: Analysis using Nano-PALDI imaging mass spectrometry **Hitomi Kanekasu**

Process analytical technology (PAT)	
P2-092	Field-ready approach for simultaneous quantification of siloxanes and condensable sulfur species in biogas **Ayush Agarwal**
P2-093	New revolutionary process GC with capillary chromatography **Jochen Geiger**
P2-094	Biosensor to continuously monitor nucleic acids in biomanufacturing processes **Selina Janssen**
P2-095	Comparative spectral imaging for identification and classification of air-liquid interface biofilms on food processing surfaces **Vicky Caponigro**

P2-096	Near-infrared hyperspectral and color-RGB image-based approaches for heterogeneity assessment in cocoa powder blending processes **Rodrigo Rocha De Oliveira**
P2-097	Keep it simple and smart– why less is often more in PAT **Dusko Kadijevic**

Sensors	
P2-098	Paper-based (bio)sensors for multianalyte detection in a novel origami organ-on-a-chip device: PHOENIX-OoC **Laura Belcastro**
P2-099	Influence of electropolymerization conditions on the chemiresistive response of poly(3,4-ethylenedioxythiophene) towards ammonia **Johan Bobacka**
P2-100	Study of the ZnO@NiCo-Glycerolate composite in the development of a non-enzymatic electrochemical sensor for the quantification of glucose **Astrid Choquehuanca-Azaña**
P2-101	Smart caffeine sensing: an e-MIP-based screen-printed voltammetric cell for beverage quality control **Alessandra Cutaia**
P2-102	Different synthesis routes in ytterbium oxide (Yb2O3): Structural, morphological, and electrochemical characterization **Slađana Đurđić**
P2-103	Development of an electrochemical sensor based on molecularly imprinted polymer using functionalized gold nanoparticles for caffeine quantification **Sergio Espinoza-Torres**
P2-104	2D Disposable stochastic sensor for the enantioanalysis of lysine in lung cancer **Damaris-Cristina Gheorghe**
P2-105	Carbon black and PEDOT:PSS in a new synergistic solid contact for reliable printed potentiometric sensors **Christian Gosti**
P2-106	A disposable screen-printed electrode for glutamine enantioanalysis in biological samples **Ruxandra-Maria Ilie-Mihai**
P2-107	Reversed amperometric setup for enhanced sensitivity in ion-selective electrode measurements **Justyna Kalisz**
P2-108	Scalable development of flexible amperometric biosensors by inkjet printing and intense pulsed light **Petar Kassal**
P2-109	Detection of Receptor Binding Domain (RBD) of SARS-CoV-2 spike protein by mini graphene field-effect transistors (mGFET-4D) **Rene Pfeifer**
P2-110	Enhanced electrochemical sensing platform based on 2D-MXenes and Diamond Nanoparticles. Application for tanshinol determination. **Carmen Quintana**
P2-111	Electrochemical devices utilizing chitosan and gold nanoparticles films for signal amplification **Concepción Rodríguez-Oñate**

P2-112	Electrochemical Detection of codeine in complex matrices using carbon nanodot-modified screen-printed electrodes **M. Laura Soriano**
P2-113	MOF-modified glassy carbon electrode with molecularly imprinted polymer coating - electrochemical sensor design for glyphosate detection **Vesna Stankovic**
P2-114	Ionogel barriers and hydrogel repositories for microfluidic flow control **M. Angustias Torres-Molina**
P2-115	Development of a microfluidic-based colorimetric sensor for smartphone detection of nitrites in fresh water **M. Angustias Torres-Molina**
P2-116	Fabrication of Eu_2O_3@rGO-based electrochemical sensor for detection of estradiol together with theoretical illumination of redox events **Filip Vlahović**
P2-117	A Zero-Gap Electrochemical Sensor with 3D-conductive GDEs and Hydrogel Electrolyte for High-Performance Breath Gas Analysis **Jie Zhang**
P2-118	Development of an electrochemical biosensor for glutathione reductase activity using screen-printed electrodes modified with 3,5-dinitrobenzoic acid-functionalized carbon nanotubes **Irene Ojeda**
P2-119	Enzyme-free amperometric aptasensor for carcinoembryonic antigen based on Janus colloids **Irene Ojeda**
P2-120	Formulation of conductive filament for 3D printed electrochemical sensors **Xavier Cetó**
P2-121	Flow analysis monitor of microbial population for the needs of microbiology and biotechnology **Bartłomiej Trojanowski**
P2-122	Detection of indoor VOCs: A cyclodextrin–dye sensing approach **Valentina Oliveri**
P2-123	Integrated microfluidic cell lysis and plasmonic assay for detecting circulating tumor genetic biomarkers in liquid biopsy **Giuseppa Ida Grasso**

Education in analytical chemistry	
P2-124	In-syringe-automated matrix precipitation and solvent evaporation for HPLC analysis of vitamins in vegan milk **Tar Tar Moe Htet**
P2-125	Analytical evaluation of micellar and microemulsion electrokinetic chromatographic systems using a fast Abraham solvation parameter approach **Rabia Idrees**
P2-126	Collaborative peer evaluation applied to the preparation of laboratory reports **Rebeca Miranda-Castro**
P2-127	SpectrApp: A user-friendly open-source tool for chemometric analysis in learning and research contexts **Alberto Mazzoleni**
P2-128	Colorimetric analysis: Integration of digital and spectral color measurements in analytical chemistry education **Eduardo Méndez**

P2-153	Estimation of the theoretical maximum daily intake of pesticide residues and chronic dietary risk assessment in Fruit **Sarah Alotaibi**

Forensics	
P2-130	Prostate cancer diagnosis based on chemical analysis of human scent **Lenka Jánošíková**
P2-131	Analytical profiling of human volatilome for individual discrimination using HS-SPME-GC-MS and HS-GC-IMS coupled to Machine Learning **Andrés Reynals Marcangeli**
P2-132	Analysis of cutting agents in seized cocaine samples and their influence on their nir profiles **Sara Soriano-Hernández**
P2-133	Forensic analysis of packaging materials: libs examination of paper substrate and covering materials **Malgorzata Iwona Szynkowska-Jozwik**
P2-134	Individual and class identification of persons by computer using digital human scent Evidence **Štěpán Urban**
P2-135	Canine training aids substrate optimization: adsorption and non-targeted contamination **Fernando Zaldivar Eyre**
P2-155	Investigation of microstructural change and corrosion of steel drums for forensic evidence incineration **Phuritpach Nantasitangkool**

Electroanalytical techniques	
P2-154	Development of a sensor for lead detection in gunshot residual for forensic science applications **Khunnaphat Lertborworn**

POSTER SESSION 3

Environmental chemistry	
P3-001	Assessing Daphnia magna capacity for removing silver nanoparticles from waters in presence of microplastics. Laboratory studies. **Laura Torrent**
P3-002	Application of a ZVI-functionalized biochar from orange peel for the adsorption and dehalogenation of picloram **Jorge Vidal**
P3-003	Evaluation of the impact of crop irrigation with nature-based reclaimed waters: Laboratory studies **Mary Isabel Villacís**
P3-004	Development of an LC-MS/MS method for the determination of frequently (ab)used pharmaceuticals and their metabolites in wastewater **Tin Županović**
P3-005	Chemical characterization and biological impact of PM_{10} air pollutants: linking analytical methods to neurotoxic outcomes **Esmeralda Ayala**
P3-006	Development and validation of a new semi-empirical depositional model to estimate the concentration of black carbon deposited on snow **Francisco Cereceda-Balic**
P3-007	Calibration of ceramic passive samplers for the measurement of contaminants of concern in wells and river waters **Giacomo Moro**
P3-008	Analytical applications based on inorganic As(V) and As(III) adsorption by Fe-based MOFs and EDXRF **Victòria Salvadó**
P3-009	Assessment of the impact of road traffic and industry on the content and spatial distribution of mercury in soil samples from the Lodz region **Malgorzata Iwona Szynkowska-Jozwik**
P3-010	The effect of ageing on the quali-quantitative determination of microplastics by analytical pyrolysis **Hira Zulfiqar**
P3-011	Quantification and characterization of UV Filters in coastal seawaters of Adriatic Beach Environments **Hira Zulfiqar**
P3-012	Express determination of aviation fuel in soil by GC-MS coupled with SPME: Greenness assessment via GAPI **Mereke Alimzhanova**
P3-013	Express determination of aviation fuel in soil by GC-MS coupled with SPME: Greenness assessment via GAPI **Mereke Alimzhanova**
P3-014	Method development for the determination of GBCA'S (Gadolinium-Based Contrast Agent, Dotarem) in vegetable samples **Francisco Soria Prieto**

P3-015	Determination of pharmaceuticals in sediment samples by molecularly imprinted matrix-solid phase dispersion extraction technique coupled with high-performance liquid chromatography **Kristina Tolić Čop**
P3-016	Multi-template molecularly imprinted polymer for sorption of sulfamethoxazole, torasemide and procaine **Kristina Tolić Čop**
P3-017	Determination of contaminants of emerging concern in reclaimed wastewater from the Canary Islands **Cristina Socas-Hernández**
P3-018	Presence of pharmaceuticals, PFASs, and metals in surface and groundwater of the Palancia River basin: a hydrogeochemical and environmental risk approach **Jhesibel Chavez Ortiz**
P3-019	Innovative water sampling strategy for the simultaneous sampling and sample preparation for cadmium quantification **António Rangel**
P3-020	Combination of SPE and pH adjustment for the simultaneous spectrophotometric determination of copper, zinc and manganese in water **António Rangel**
P3-021	Methodologies for ultrashort-chain and comprehensive PFAS analysis in water samples **Fernando Rodríguez**
P3-022	Monitoring and predicting heavy metal contents of urban road dusts: Methodology and analytical insights in support of geospatial models **Dielie Gwenaël**
P3-023	Using a polymer inclusion membrane for the analysis of mercury and methylmercury in natural waters **Claudia Fontas**
P3-024	Evaluation of a sarcosine-based core–shell sorbent for solid-phase extraction of acidic and basic pharmaceuticals from environmental water samples **Abril Trullàs**
P3-025	Beneath the surface: Emerging contaminants in groundwaters of Anaga and El Teide parks (Tenerife, Canary Islands) **Cecilia Ortega-Zamora**
P3-026	Development of MK-015: A selective and sensitive guaiazulene-based chemosensor for on-Site N2H4 detection: spectrophotometric, colorimetric, and smartphone-based analysis **Mehmet Kaplan**
P3-027	Emerging contaminants in surface water: targeted and suspect analysis by UHPLC-HRMS/MS and IMS-HRMS/MS **Francisco Javier Santos**
P3-028	From ULTRASONIC TO MOKA-LIKE DEVICES: A critical comparison of extraction strategies for emerging pollutants in antarctic marine sediments **Julia Gambetta Vianna**
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