

XXVII Congress of the Analytical Chemistry Division

Bologna, September 16-20, 2018

DAMSLab, Piazzetta P. P. Pasolini 5/b

Sunday, September 16th

18:00-21:00 **Registration**

Hall

19:00-21:00 **Welcome cocktail**

Hall and Courtyard

Monday, September 17th

8:00-9:00 **Registration**

Hall

9:00-9:30 **Opening ceremony**

Auditorium and (by streaming) Theater

Aldo Roda (President of the Local organizing and scientific committee of the XXVII Congress of the Analytical Chemistry Division)

Antonino Rotolo (Vice-Rector for Research, Alma Mater Studiorum - University of Bologna)

Angela Agostiano (President of the Italian Chemical Society)

Aldo Laganà (President of the Division of Analytical Chemistry, Italian Chemical Society)

Francesco Paolucci (Head of the Department of Chemistry "Giacomo Ciamician", Alma Mater Studiorum - University of Bologna)

Fabrizio Cavani (Head of the Department of Industrial Chemistry "Toso Montanari", Alma Mater Studiorum - University of Bologna)

Plenary session

Auditorium and (by streaming) Theater

Chairman: Giuseppe Palleschi

9:30-10:10 **PL1 Aziz Amine** (Université Hassan II de Casablanca, Morocco): Analytical aspects of biosensing systems based on enzyme inhibition.

10:10-10:30 **Prize Giovane Ricercatore GR Monica Mattarozzi** (University of Parma) Innovative analytical approaches based on mass spectrometry techniques and immunosensing devices for food safety control and clinical diagnosis

<p>10:30-11:00 Coffee break <i>Hall</i></p>	
<p>Plenary session <i>Auditorium and (by streaming) Theater</i> Sensors and biosensors, Lab-on-a-chip, POCT (SB) Separation sciences (SS) Chairmen: Giovanna Marrazza, Luigi Mondello</p>	
<p>11:00-11:20 KN1 Alessandra Maria Bossi (University of Verona) Molecularly imprinted nanogel particles: tailor-made protein and peptide receptors for sensing and assays</p> <p>11:20-11:35 O1 SB Luisa Torsi (University of Bari) Single molecule detection of markers in real bio-fluids with a label-free electronic sensor</p> <p>11:35-11:50 O2 SB Raffaella Biesuz (University of Pavia) Chameleon probes for chromogenic sensing of volatile spoilage products of chicken meat</p> <p>11:50-12:05 O3 SB Maria Maddalena Calabretta (Alma Mater Studiorum - University of Bologna) A new cell-based bioluminescent assay for real-time detection of androgenic activity in living cells</p> <p>12:05-12:25 KN2 Barbara Roda (Alma Mater Studiorum - University of Bologna) Field-Flow Fractionation for nanoanalytics: from genesis to revelation</p> <p>12:25-12:40 O1 SS Claudio Baggiani (University of Turin) An efficient strategy for molecularly imprinted solid phase extraction of aianthone from leaves of <i>Ailanthus altissima</i></p> <p>12:40-12:55 O2 SS Martina Catani (University of Ferrara) Unmatched kinetic performance in enantioselective supercritical fluid chromatography by combining latest generation Whelk-O1 chiral stationary phases with a low dispersion in-house modified equipment</p> <p>12:55-13:00 F1 MS Emanuele Porru (Alma Mater Studiorum - University of Bologna) HPLC-ES MS/MS method for the identification and quantification in human feces of gut microbiota products: oxo-bile acids</p>	
<p>13:00-14:40 Lunch <i>Hall</i></p>	<p>13:00-14:40 Poster session I <i>Theater</i></p>
<p>Parallel session <i>Auditorium</i> Sensors and biosensors, Lab-on-a-chip, POCT (SB) Chairmen: Domenica Tonelli, Luisa Torsi</p>	<p>Parallel session <i>Theater</i> Separation sciences (SS) Food and nutraceuticals (FN) Chairmen: Alberto Cavazzini, Pierluigi Reschiglian</p>

<p>14:40-14:55 O4 SB Maria Pesavento (University of Pavia) Surface plasmon resonance transduction on optical fiber as a low cost alternative to the Kretschmann configuration</p>	<p>14:40-14:55 O3 SS Vincenzo Ferrone (University of Chieti) Dispersive magnetic solid-phase extraction using grafene@Fe₃O₄ nanocomposite for the UHPLC-PDA analysis of the new oral anticoagulant drugs (NAOCs) in human plasma</p>
<p>14:55-15:10 O5 SB Erica Del Grosso (University of Rome Tor Vergata) Dissipative DNA-based nanomachines</p>	<p>14:55-15:10 O4 SS Federica Ianni (University of Perugia) The “racemic approach” in pharmaceutical analysis: a selection of laboratory studies</p>
<p>15:10-15:25 O6 SB Martina Zangheri (Alma Mater Studiorum - University of Bologna) A smartphone-based thermochemiluminescent immunosensor for valproic acid detection</p>	<p>15:10-15:25 O5 SS Francesca Merlo (University of Pavia) Thermally condensed humic acids onto silica as spe for multi-class preconcentration of steroid hormones from environmental waters followed by HPLC-ESI-MS/MS</p>
<p>15:25-15:40 O7 SB Noemi Bellassai (University of Catania) New antifouling platform for DNA detection in human plasma based on modified poly-L-lysine polymers with anionic peptide</p>	<p>15:25-15:40 O6 SS Rosangela Elliani (University of Calabria) Development of a fast and simple method for the assay of urinary phthalate monoesters by solid-phase microextraction-gas chromatography-triple quadrupole mass spectrometry</p>
<p>15:40-15:55 O8 SB Stefano Cinti (University of Rome Tor Vergata) All-in-paper (blue): synthesis, matrix purification, reagent-free detection. Blood glucose as case of study</p>	<p>15:40-15:55 O7 SS Cristina Scordo (University of Florence) QuEChERS extraction followed by liquid chromatography coupled with tandem mass spectrometry for perfluoroalkyl acid determination in strawberries irrigated with treated wastewater</p>
<p>15:55-16:00 F1 SB Elisa Marchegiani (Alma Mater Studiorum - University of Bologna) Life marker detection in planetary exploration: a novel biosensor for atp detection based on chemiluminescent dna switch integrated with amorphous silicon photodiodes</p>	<p>15:55-16:00 F1 SS Valentina Marassi (Alma Mater Studiorum - University of Bologna) Investigation, isolation and characterisation of new prionoid protein aggregates through hollow fiber flow field flow fractionation and multi angle light scattering: a tool to facilitate the comprehension of infectious processes</p>
<p>16:00-16:05 F2 SB Rossella Sveglij (University of Udine) A competitive aptamer assay for gluten detection in deep eutectic solvent</p>	<p>16:00-16:05 F1 FN Chiara Fanali (Campus Bio-Medico University of Rome) Extraction, analysis and antioxidant activity evaluation of phenolic compounds in different italian extra-virgin olive oils</p>

<p>16:05-16:10 F3 SB Simona Ranallo (University of Rome Tor Vergata) Rational control of the activity of a Cu²⁺-dependent DNAzyme by re-engineering purely entropic disordered domains</p> <p>16:10-16:15 F4 SB Sara Gaggiotti (University of Teramo) DNA-based quartz crystal microbalance array for the identification of aroma patterns in foods</p> <p>16:15-16:30 O9 SB Chiara Zanardi (University of Modena and Reggio Emilia) Simultaneous determination of glucose and fructose in synthetic musts by sonogel-carbon amperometric sensors</p> <p>16:30-16:45 O10 SB Donatella Coviello (University of Basilicata) Development and characterization of a new betaine / Pt electrochemical sensor for detection of B group vitamins</p>	<p>16:05-16:10 F2 FN Barbara Benedetti (University of Genoa) Multivariate optimization of a QuEChERS procedure for the LC-MS/MS analysis of phytoestrogens in soy burgers</p> <p>16:10-16:25 O1 FN Cristiana Caliceti (Alma Mater Studiorum - University of Bologna) Development of a reflectance smartphone paper-based chemosensor for the quantification of total polyphenol content in extra virgin olive oil</p> <p>16:25-16:40 O2 FN Peter Quinto Tranchida (University of Messina) Detailed profiling of extra-virgin olive oils by using comprehensive two-dimensional gas chromatography with dual quadrupole mass spectrometry and flame ionization detection</p>
<p>16:45-17:10 Coffee break <i>Hall</i></p>	
<p>Parallel session <i>Auditorium</i> Environment and cultural heritage (EC) Chairmen: Luigia Sabbatini, Carlo Barbante, Cosimino Malitesta</p>	<p>Parallel session <i>Theater</i> Analytical spectroscopy (AS) Forensic analytical chemistry (FO) Chairmen: Marco Vincenti, Maria Pesavento</p>
<p>17:10-17:30 KN3 Silvia Prati (Alma Mater Studiorum - University of Bologna) Advanced diagnostic investigations for the study of altered gildings: new insights into Cimabue's painting technique</p> <p>17:30-17:45 O1 EC Jacopo La Nasa (University</p>	<p>17:10-17:25 O1 AS Massimo Innocenti (University of Florence) Morphological and compositional analyzes of surfaces</p> <p>17:25-17:30 F1 AS Nicola Cioffi (University of Bari) Insights into the inhibition of <i>P. fluorescens</i> biofilm formation via AFM and ATR-IR characterizations</p> <p>17:30-17:45 O2 AS Angelo Mullaliu (Alma</p>

<p>of Pisa) Investigating synthetic polymers in heritage objects: a multi-analytical approach for the study of polyurethane foams in 1960s sculptures</p> <p>17:45-18:00 O11 SB Maria Sole Zalaffi (University of Venezia) Hierarchical nanostructures composed by Ag nanostars on Au/Cu nanowires as SERS sensors for painting materials</p> <p>18:00-18:05 F1 EC Francesca Modugno (University of Pisa) Investigating paint materials in street art mural paintings by analytical pyrolysis based techniques</p> <p>18:05-18:10 F2 EC Elena Pavoni (University of Trieste) Potentially Harmful Element (PHE) occurrence and phase partitioning in the river mouths of the Gulf of Trieste (Northern Adriatic Sea)</p> <p>18:10-18:15 F3 EC Giulia Costamagna (University of Turin) Use of nano-structural materials for abatement of nitrates in natural and waste water</p> <p>18:15-18:30 O2 EC Paola Fermo (University of Milan) Emissions from pellets combustion: a study on stoves to evaluate the impact on atmospheric aerosol</p>	<p>Mater Studiorum - University of Bologna) The uncommon electrochemistry of copper nitroprusside disclosed by spectroscopic and diffraction techniques</p> <p>17:45-18:00 O3 AS Nicoletta Ditaranto (University of Milan) Surface characterization of non-noble metals embedded in n-doped carbon catalysts: the importance of hydrophilicity on oxygen reduction reaction activity</p> <p>18:00-18:15 O1 FO Eugenio Alladio (University of Turin) Multivariate data analysis strategies for fire debris investigation</p> <p>18:15-18:20 F1 FO Flaminia Vincenti (La Sapienza University of Rome) Determination of ethyl-glucuronide in hair by means PLE-SPE extraction and HPLC-MS/MS analysis</p>
<p>18:30-20:00 Divisional Assembly, Awards and Medals of the Analytical Chemistry Division Auditorium</p>	

Tuesday, September 18th

Plenary session

Auditorium and (by streaming) Theater

Bioanalytics and "-omics" (BO)

Chairmen: Maria Careri, Dario Compagnone

9:00-9:40 **PL2 Börje Sellergren** (Malmö University, Sweden) Imprinted polymers in bioanalysis, biomarker discovery and imaging

9:40-10:00 **KN4 Susy Piovesana** (La Sapienza University of Rome) Separation and enrichment of peptides and amino acids: a piece in the puzzle of the bioactivity of protein derivatives

10:00-10:15 **O1 BO Giovanni Ventura** (University of Bari) Identification of autism spectrum disorder biomarkers by liquid chromatography coupled with mass spectrometry

10:15-10:30 **O2 BO Domenico Taverna** (University of Catanzaro) Hydrogel Extraction Surface Analysis (HESA): an option for shotgun quantitative proteomics from cardiac myxoma FFPE biopsy

10:30-10:45 **O3 BO Eleonora Amante** (University of Turin) Urinary steroidal profile as innovative tool for the screening of prostate diseases

10:45-11:15 **Coffee break**

Hall

Plenary session

Auditorium and (by streaming) Theater

Analytical spectroscopy (AS)

Mass spectrometry (MS)

Chairmen: Gianpiero Adami, Achille Cappiello

11:15-11:30 **O4 AS Elisabetta Mazzotta** (University of Salento) XPS characterization of polydopamine layers for improving surface biomolecule immobilization

11:30-11:45 **O5 AS Roberta D'Agata** (University of Catania) Streptavidin-coated gold nanoparticles: critical role of oligonucleotides on stability and linear aggregation

11:45-12:00 **O1 MS Maurizio Piergiovanni** (University of Urbino) Fast dilute-and-shoot applications using an LEI LC-MS interface

12:00-12:15 **O2 MS Federica Dal Bello** (University of Turin) Lipidomic analysis of tissue from high fat and high fructose diet treated mice

12:15-12:30 **O1 SP Roberto Santoliquido** (Alfatest) Bio/nano technologies: how to characterize size and number concentration in liquid matrices

12:30-12:45 **O2 SP Emanuele Pirovano** (Merck) High purity water for advanced analytical techniques

12:45-13:45 **Lunch**

Hall

13:45-14:45 Assembly IG Sensors <i>Auditorium</i>	13:45-14:45 Assembly IG Separation Sciences <i>Theater</i>	13:45-14:45 Assembly DG Chemometry <i>Seminar room</i>
14:45-15:45 Assembly DG Analytical Spectroscopy <i>Auditorium</i>		14:45-15:45 Assembly DG Forensic Analytical Chemistry <i>Seminar room</i>
16:00 Departure for social events (FICO, Ducati Museum, Bologna experience)		

Wednesday, September 19th

<p>Plenary session <i>Auditorium and (by streaming) Theater</i> Chemometrics, "big data", data quality (CB) Green chemistry (GC) Chairmen: Federico Marini, Marina Cocchi</p>
<p>9:00-9:40 PL3 Romà Tauler (Spanish Council of Scientific Research). Environmental chemometrics</p> <p>9:40-9:55 O1 CB Alessandra Biancolillo (La Sapienza University of Rome) So-CovSel: a novel method for variable selection in multiblock data</p> <p>9:55-10:10 O2 CB Cristina Malegori (University of Genoa) Chemical modifications of rice germ during storage: focusing on water by the aquaphotomics approach</p> <p>10:10-10:25 O3 CB Davide Ballabio (University of Milan - Bicocca) Multivariate classification of Chianti red wines based on massive sampling and icp-ms element composition</p> <p>10:25-10:40 O1 GC Andrea Speltini (University of Pavia) Photocatalytic hydrogen evolution from (waste) aqueous biomass under simulated solar light: titanium dioxide vs. graphitic carbon nitride</p> <p>10:40-10:45 F1 GC Tatiana Chenet (University of Ferrara) Cadmium uptake and diffusion in bivalve mollusk shells from aqueous matrices – An LA-ICP-MS line scan and element imaging study</p>
10:45-11:15 Coffee break

<i>Hall</i>	
<p>Plenary session <i>Auditorium and (by streaming) Theater</i> Solution equilibria and speciation (EQ) Environment and cultural heritage (EC) Chairmen: Giuseppe Arena, Concetta De Stefano, Piergiuseppe Daniele</p>	
<p>11:15-11:35 KN5 Francesco Crea (University of Messina) Use of GANTREZ™ copolymers as potential chelating agents for the selective sequestration of metal ions</p> <p>11:35-11:50 O1 EQ Emilia Furia (University of Calabria) Curcumin as potential chelating agent towards Al(III) and Fe(III)</p> <p>11:50-12:05 O2 EQ Sandro Recchia (University of Insubria) Inorganic arsenic speciation in water samples: an ultrafast method based on frontal chromatography/ICP-MS</p> <p>12:05-12:20 O3 EQ Gabriele Lando (University of Messina) Exploring various ligand classes for the efficient sequestration of stannous cations in the environment</p> <p>12:20-12:25 F1 EQ Rossella Migliore (University of Catania) Calixarene-based supramphiphiles in neutral buffered solution: determination of CMC and ΔH_{mic} by a single experiment</p> <p>12:25-12:30 F2 EQ Anna Irto (University of Messina) Speciation study of a bis-(3-hydroxy-4-pyridinone) towards M^{2+}</p> <p>12:30-12:50 KN6 Rita Traversi (University of Florence) Chemical composition of atmospheric aerosol and surface snow at Dome C (East Antarctic Ice Sheet): an overview from 10-yr long records</p> <p>12:50-13:05 O3 EC Carlo Crescenzi (University of Salerno) Unveiling risks concealed in textiles</p> <p>13:05-13:20 O4 EC Gabriele Favero (La Sapienza University of Rome) Selective extraction of water-soluble thallium fraction from contaminated drinking-water distribution networks: optimization of the procedure and extracts speciation</p> <p>13:20-13:35 O3 SP Michael Soll (Frontier Lab) Pyrolysis GC-MS for identification and characterization of unknown polymeric material used for biodegradable packaging and membrane (diaphragm) pumps</p>	
13:35-15:00 Lunch <i>Hall</i>	13:35-15:00 Poster session II <i>Theater</i>
Parallel session	Parallel session

<p><i>Auditorium</i> Chemometrics, "big data", data quality (CB) Environment and cultural heritage (EC) Chairmen: Patrizia Romana Mussini, Paolo Ugo</p>	<p><i>Theater</i> Sensors and biosensors, Lab-on-a-chip, POCT (SB) Chairmen: Maria Minunni, Francesco Ricci</p>
<p>15:00-15:15 O4 CB Rosalba Calvini (University of Modena and Reggio Emilia) Smartphone-based determination of grape phenolic maturity</p> <p>15:15-15:20 F1 CB Patrizia Firmani (La Sapienza University of Rome) Near-Infrared based detection of insects infestation in rice samples</p> <p>15:20-15:35 O5 CB Sabina Licen (University of Trieste) Prediction of odour concentration by use of supervised Kohonen networks on electronic nose signal records of odorant samples and real environment air samples</p> <p>15:35-15:50 O5 EC Costanza Scopetani (University of Florence) Microplastic pollution in ice, snow and sediments from Vesijärvi and Pikku Vesijärvi lakes, Finland</p> <p>15:50-16:05 O6 EC Francesco Ardini (University of Genoa) Isotopic analysis of Antarctic snow by quadrupole inductively coupled plasma mass spectrometry using a total-consumption sample introduction system</p> <p>16:05-16:20 O7 EC Silvia Illuminati (Marche Polytechnic University) Chemical composition of atmospheric aerosol in Antarctica</p>	<p>15:00-15:20 KN7 Andrea Idili (University of California Santa Barbara) Continuous, real-time measurement of a cancer chemotherapeutic in a living body using electrochemical aptamer-based sensors and a novel drift correction approach</p> <p>15:20-15:35 O12 SB Riccarda Antiochia (La Sapienza University of Rome) Microneedle-based biosensor for minimally-invasive lactate detection</p> <p>15:35-15:50 O13 SB Fabio Di Francesco (University of Pisa) Disposable pH biosensor for urea measurement</p> <p>15:50-16:05 O14 SB Alessandro Porchetta (University of Rome Tor Vergata) Proximity-based optical and electrochemical platforms for the rapid, single-step detection of antibodies in bodily fluids</p> <p>16:05-16:10 F5 SB Donato Calabria (Alma Mater Studiorum - University of Bologna) Development of a reflectance smartphone paper-based chemosensor for the evaluation of antioxidant activity by in situ gold-nanoparticles synthesis</p> <p>16:10-16:15 F6 SB Rosaria Anna Picca (University of Bari) Environmental and operational stability of organic field effect</p>

<p>16:20-16:35 O8 EC Eleonora Conca (University of Turin) Characterization and temporal evolution of the elemental composition of PM10 collected at Ny-Ålesund (the Arctic)</p>	<p>transistors for biosensing applications</p> <p>16:15-16:20 F7 SB Pasquale Palladino (University of Florence) Polydopamine: molecular imprinting, plasmons and catalysis</p> <p>16:20-16:35 O15 SB Marco Giannetto (University of Parma) An integrated IOT-WIFI board connected with an innovative immunosensor for remote data acquisition. Case of study: diagnosis of celiac disease</p>
<p>16:35-17:05 Coffee break <i>Hall</i></p>	
<p>Parallel session <i>Auditorium</i> Environment and cultural heritage (EC) Electroanalytics, electrophotoanalytics (EL) Chairmen: Claudio Minero, Carlo Dossi</p>	<p>Parallel session <i>Theater</i> Analytical biotechnology (AB) Bioanalytics and "-omics" (BO) Chairmen: Paolo Pastore, Mara Mirasoli</p>
<p>17:05-17:20 O9 EC Gaetano De Tommaso (University of Naples "Federico II") Removal of heavy metals from contaminated zeolitic tuff</p> <p>17:20-17:35 O10 EC Andrea Lentola (Laimburg Research Centre) Identification and quantification of systemic insecticides and their metabolites by UHPLC-HRMS</p> <p>17:35-17:50 O1 EL Francesca Sanvito (University of Insubria) Determination of ultratrace iron in seawater: new developments of a catalytic adsorptive stripping voltammetry method</p> <p>17:50-18:05 O2 EL Patrizia Romana Mussini (University of Milan) Wide-scope enantioselective voltammetry: testing inherently chiral selectors with chiral probes representative of different stereogenic elements</p>	<p>17:05-17:20 O1 AB Alessandro Bertucci (University of Rome Tor Vergata) Dynamic DNA and RNA nanotechnology for binding-responsive biomolecular sensing</p> <p>17:20-17:35 O2 AB Maria Michela Salvatore (University of Naples "Federico II") A GC/MS approach for the screening of bioactive secondary metabolites produced by fungal strains</p> <p>17:35-17:40 F1 AB Lisa Elviri (University of Parma) An analytical study of the influence of chitosan features on the chemical, physical and mechanical and in-vitro properties of 3D printed scaffolds</p> <p>17:40-17:55 O4 BO Denise Biagini (University of Pisa) Micro extraction by packed sorbent coupled to liquid chromatography-tandem mass spectrometry for the analysis of prostanoids and isoprostanoids in dried blood spots</p>

18:05-18:10 F1 EL Giovanni Valenti (Alma Mater Studiorum - University of Bologna) Single cell electrochemiluminescence imaging: from the proof-of-concept to disposable device-based analysis	17:55-18:10 O5 BO Giuliana Grasso (University of Salerno) Improving LC-MS detection of phospholipids by molecularly designed class selective SPE sorbents
18:10-18:15 F2 EL Serena Arnaboldi (University of Milan) Optimizing the electrodeposition protocol of enantioselective inherently chiral electrode surfaces: a multi-technique investigation	
20:00 Social Dinner and Awarding of the Best Posters and Best Flash Communications <i>Palazzo Isolani – Piazza delle Sette Chiese</i>	

Thursday, September 20th

<p>Plenary session <i>Auditorium and (by streaming) Theater</i></p> <p>Mass spectrometry (MS) Electroanalytics, electrophotoanalytics (EL) Chairmen: Danila Moscone, Tommaso Cataldi</p>
<p>9:30-10:10 PL4 Maria Rosaria Tiné (University of Pisa) Un nuovo modello per l'aggiornamento e la razionalizzazione della classificazione dei saperi accademici e del sistema delle classi di corso di studio</p> <p>10:10-10:30 KN8 Cosima Damiana Calvano (University of Bari) Structural characterization of glycosphingolipids by multiple-stage linear ion trap mass spectrometry</p> <p>10:30-10:45 O3 MS Carmela Dell'Aversano (University of Naples "Federico II") LC-MS based strategies for the comprehensive analysis of marine toxins in environmental and food matrices</p> <p>10:45-11:00 O4 MS Antonella Cavazza (University of Parma) Hidden sources of bisphenol A from food contact materials</p> <p>11:00-11:15 O3 EL Fabiana Arduini (University of Rome Tor Vergata) Multiple paper-based electrochemical biosensors for pesticide detection</p> <p>11:15-11:30 O4 EL Ilaria Palchetti (University of Florence) Nanostructured TiO₂ electrodes for photoelectrochemical biosensing of nucleic acids</p> <p>11:30-11:45 O5 EL Laura Pigani (University of Modena and Reggio Emilia) Preparation and</p>

characterization of novel sonogel-carbon electrodes containing carbon black: application as amperometric sensors for determination of polyphenolic compounds

11:45-12:00 **O6 EL Domenica Tonelli** (Alma Mater Studiorum - University of Bologna) Layered double hydroxides as electrode modifiers for (bio)sensing applications

12:00 – 13:00 **Lunch**

Hall

Plenary session

Auditorium and (by streaming) Theater

Environment and cultural heritage (EC)

Sensors and biosensors, Lab-on-a-chip, POCT (SB)

Chairmen: Aldo Roda

13:00-13:15 **O11 EC Marco Minella** (University of Turin) Experimental methodology to measure the reaction rate constants of processes sensitized by the triplet state of 4-carboxybenzophenone as proxy of the triplet states of chromophoric dissolved organic matter

13:15-13:30 **O12 EC Marco Vecchiato** (University of Venice) Fragrances as new environmental contaminants

13:30-13:45 **O13 EC Giorgia Sciutto** (Alma Mater Studiorum - University of Bologna) Miniaturized biosensors to preserve and monitor cultural heritage: from medical to conservation diagnosis

13:45-14:00 **O16 SB Laura Anfossi** (University of Turin) Non-spherical gold nanoparticles: a versatile colorimetric probe for aggregation-based assay and point-of-need test

14:00-14:15 **O17 SB Daniel Rojas** (University of Teramo) Carbon Black -MoS₂ nanocomposite as novel screen-printed electrodes modifier

14:15 **Closing remarks**

Auditorium and (by streaming) Theater