

## Plenary Lectures

**PL1: Michele Parrinello**, *Istituto Italiano di Tecnologia, Atomistic Simulations, Center for Convergent Technologies, Genova, Italy*

**EuChemS Gold Medal 2020**

**“Ammonia Decomposition on Lithium Imide Surfaces: a new paradigm in heterogeneous catalysis”**

**PL2: Carol V. Robinson**, Kavli Institute of Nanoscience Discovery, New Biochemistry Building, South Parks Road, UK

**EuChemS Gold Medal 2022**

**“A new phase for structural biology”**

**PL3: Lutz Ackermann**, Institute for Organic and Biomolecular Chemistry, Georg-August-University Göttingen, Germany

**“Metallaelectro-Catalyzed Bond Activations”**

**PL4: Cristina Nevado**, University of Zurich, Zurich, Switzerland

**“Activating  $\sigma$  and  $\pi$  bonds with transition metals: mechanistic insights and asymmetric variants”**

**PL5: Clément Sanchez**, Collège de France and Institute of Advanced Studies of Strasbourg, France

**“Nature-inspired integrative materials chemistry”**

**PL6: João Rocha**, University of Aveiro, CICECO-Aveiro Institute of Materials, Department of Chemistry, Aveiro, Portugal

**“The importance of being porous: silicates and organic-inorganic hybrid materials”**

**PL7: Hanadi Sleiman**, Department of Chemistry, McGill University, Montreal, Canada

**“DNA Nanostructures: design and biological properties”**

**PL8: Nicola Armaroli**, National Research Council – Institute for Organic Synthesis and Photoreactivity (CNR-ISOF), Bologna, Italy

**“A complex energy transition. The big picture from a chemical perspective”**

**PL9: Nazario Martín**, Dpto de Química Orgánica, Facultad de Química, Universidad Complutense, Madrid, Spain; IMDEA-Nanociencia, Madrid, Spain

**“Synthetic Chiral Molecular Nanographenes”**

**PL10: Victor Mougel**, Department of Chemistry and Applied Biosciences

**EuChemS Lecture Award 2020**

**“Bio-inspired strategies across multiple scales: application to overall CO<sub>2</sub> reduction”**

**PL11: Silvia Osuna**, Institut de Química Computacional i Catàlisi, Facultat de Ciències, Univ de Girona, Girona, Spain

**EuChemS Lecture Award 2021**

**“Can we rationally design efficient enzymes?”**

**PL12 e PL13: John C. Warner<sup>1</sup> and Paul Anastas<sup>2</sup>**

**August Wilhelm von Hofmann Denkmünze 2022**

<sup>1</sup>Zymergen Research, Cambridge, MA, USA; <sup>2</sup>Center for Green Chemistry and Green Engineering, Yale University, New Heaven, CT, USA

**“Green Chemistry: The Molecular Mechanisms of Sustainability”**

## ERC

**ERC1: Sophie Beeren**, *Department of Chemistry, Technical University of Denmark, Kongens Lyngby, Denmark*  
Technical University of Denmark, Kongens Lyngby, Denmark

**“Enzyme-mediated dynamic combinatorial chemistry with cyclodextrins”**

**ERC2: Ardemis Boghossian**, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*

**“Synthetic Biology-inspired Approaches for Engineering Optical Nanosensors”**

**ERC3: Larisa Florea**, *Trinity College Dublin, Ireland*

**“Bioinspired 3D Micro-Structures and Micro-vehicles – Design, Fabrication and Function”**

**ERC4: Hennie Valkenier**, *Université libre de Bruxelles, Engineering of Molecular NanoSystems, Bruxelles, Belgium*

**“Dynamic Covalent Chemistry with Azines”**

**ERC5: Frank Biedermann**, *Karlsruhe Institute of Technology: Karlsruhe, Germany*

**“Towards Supramolecular Systems for Small-Molecule Diagnostics in Biofluids.”**

**ERC6: Luca Dell’Amico**, *Department of Chemical Sciences, University of Padova, Padova, Italy*

**“Mechanistic investigations in light-driven synthetic chemistry - Making predictable the unpredictable”**

**ERC7: Roxanne Kieltyka**, *Department of Supramolecular and Biomaterials Chemistry, Leiden Institute of Chemistry, Leiden University, The Netherlands*

**“Squaramide-based supramolecular biomaterials”**

**ERC8: José J. Baldoví**, *Instituto de Ciencia Molecular (ICMol), University of Valencia, Paterna, Spain*

**“Tailoring spin waves in single-layer CrSBr by strain engineering”**

**ERC9: Giulio Ragazzon**, *Institut de Science et d’Ingénierie Supramoléculaires, Université de Strasbourg, CNRS, Strasbourg, France*

**“From molecular machines to chemical engines”**

**ERC10: Tomáš Slanina**, *Institute of Organic Chemistry and Biochemistry, AS CR, Prague, Czech Republic*

**From Reversible Photoinduced Electron Transfer to Energy Storage**

**ERC11: Valentina Cauda**, *Department of Applied Science and Technology, Politecnico di Torino, Italy*

**A TrojaNanoHorse to fight cancer with stimuli-responsive, biomimetic and theranostic nanoparticles**

**ERC12: Luís Mafra**, *Department of Chemistry, University of Aveiro, Portugal*

**“Understanding CO<sub>2</sub> capture mechanisms in porous adsorbents via solid state NMR spectroscopy”**

## Theme A - Advances in Synthetic Organic Methodologies

### Subtheme A1 - Synthetic Methodology

**IL.A1.1: Marcos G. Suero**, *Institute of Chemical Research of Catalonia ICIQ Barcelona Institute of Science and Technology; Tarragona, Spain*

**“Catalytic Carbyne Transfer in Organic Synthesis”**

**IL.A1.2: Keinan Ehud**, *The Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel*

**“Bio-inspired synthesis of spherical containers and bambusuril anion transporters”**

**IL.A1.3: Carlos Afonso**, *Faculty of Pharmacy, University of Lisbon, Portugal*

**“Synthetic transformations under flow conditions”**

**OC.A1.1: Dorian Didier**, *Ludwig-Maximilians Universität, München*

**“Divergent functionalization of four-membered heterocycles”**

**OC.A1.2: Samuel Suárez-Pantiga**, *Universidad de Burgos, Pza. Misael Bañuelos s/n, Burgos, Spain*

**“Dioxomolybdenum catalyzed C-N bond-forming reactions in reductive amination reactions with nitrocompounds”**

**OC.A1.3: Gianluigi Albano**, *Dipartimento di Chimica, Università degli Studi di Bari “Aldo Moro”, Bari, Italy*

**“Infrared irradiation-assisted Pd-catalyzed dehydrogenative coupling of fluoroarenes with heteroarenes: a new frontier in double C–H activation”**

**OC.A1.4: Filipa Siopa**, *Sorbonne Université, Faculté des Sciences et Ingénierie, CNRS, Institut Parisien de Chimie Moléculaire, Paris, France; Research Institute for Medicines (iMed.Ulisboa), Faculty of Pharmacy, Universidade de Lisboa, Portugal*

**“Combining photoflow of pyridinium salts with Pd-catalysis to access new aminocyclopentene”**

**OC.A1.5: Andrea Olmos**, *Organic Chemistry Department, University of Valencia, Spain*

**“New polypyrazolylborates complexes with increased electrophilicity and small catalytic pocket”**

**OC.A1.6: Joshua D Tibbetts**, *Department of Chemistry, University of Bath, UK*

**“Photocatalytic  $\alpha$ -C–H Heteroarylation of Unprotected Primary Alkylamines”**

**OC.A1.7: G. Pupo**, *Chemistry Research Laboratory, University of Oxford, UK*

**“Asymmetric Nucleophilic Fluorination under Hydrogen Bonding Phase-Transfer Catalysis and beyond”**

**OC.A1.8: Ming-Ming Wang**, *Institute of Chemical Sciences and Engineering (ISIC), EPFL, Lausanne, Switzerland*

**“Ring-opening reactions of aminocyclopropanes and aminocyclobutanes”**

**OC.A1.9: João Macara**, *LAQV@REQUIMTE, Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal*

**“Synthesis of sulfonyl hydrazides mediated by hypervalent iodine reagents”**

**OC.A1.10: Vani Verma**, *Department of Chemistry, University of British Columbia, Vancouver, Canada*

**“Toward the synthesis of Julandine and Cryptopleurine. One-pot sequential hydroamination to selectively access tri-, tetra-, and penta-substituted pyridines”**

**OC.A1.11: Volochnyuk D.M.**, *Enamine Ltd, Kyiv, Ukraine; Institute of Organic Chemistry, National Academy of Sciences of Ukraine, Kyiv, Ukraine; National Taras Shevchenko University of Kyiv, Kyiv, Ukraine*

**“Amino acids derived diazoketones – shelf stable reagents for organic synthesis”**

## **Subtheme A2 - Green Chemistry**

**IL.A2.1: Berit Olofsson**, *Department of Organic Chemistry, Stockholm University, Sweden*

**“Atom-efficient diarylations through metal-free cascade reactions”**

**IL.A2.2: Jiwoong Lee**, *Department of Chemistry, University of Copenhagen, Denmark*

**“CO<sub>2</sub>-Mediated Processes”**

**OC.A2.1: Juliana G. Pereira**, *Research Institute for Medicines (iMed.Ulisboa), Faculty of Pharmacy, Universidade de Lisboa, Portugal*

**“Preparation of amins (and thioamins) under mild conditions and their remarkable applications”**

**OC.A2.2: Lucía Álvarez-Miguel**, *Department of Organic and Inorganic Chemistry and Research Institute in Chemistry "Andrés M. del Río" (IQAR), Universidad de Alcalá, Madrid, Spain*

**"Upcycling of Abundant Fatty Acids to Form Cyclic Carbonates and their Use as Monomers in NIPU Synthesis"**

**OC.A2.3: Gianfranco Decandia**, *Dipartimento di Chimica, Università degli Studi di Bari "Aldo Moro", Bari, Italy; Istituto per i Processi Chimico-Fisici CNR-IPCF, Dipartimento di Chimica, Bari, Italy*

**"Palladium-Catalyzed Direct (Hetero)Arylation in solvent free condition assisted by Infrared Irradiation"**

**OC.A2.4: Alessio Dessì**, *Institute of Chemistry of Organometallic Compounds (CNR-ICCOM), Sesto Fiorentino, Italy*

**"Deep-Eutectic Solvents as sustainable media for the Pd-catalyzed direct arylation of thienyl-derivatives with (hetero)aromatic bromides under air"**

**OC.A2.5: M. Manuel B. Marques**, *LAQV-REQUIMTE, Department of Chemistry, School of Science and Technology, New University of Lisbon, Portugal*

**"On the Green road towards the synthesis of challenging N-heterocycles"**

**OC.A2.6: Yung-Sing WONG**, *Univ. Grenoble Alpes, CNRS UMR 5063, DPM, Grenoble, France*

**"Greener Pharmaceuticals: Short and Modular Enantioselective Organocatalyzed Synthesis of new BET Bromodomain Inhibitors with Anti-inflammatory Action"**

## Subtheme A3 - Reaction Mechanisms

**IL.A3.1: Svetlana B. Tsogoeva**, *Organic Chemistry Chair I and Interdisciplinary Center for Molecular Materials (ICMM), Friedrich-Alexander-University of Erlangen-Nürnberg, Germany*

**"Multi-Step Domino Reactions: Access to Versatile Compounds for Material and Life Sciences"**

**IL.A3.2: Joost Reek**, *Homogeneous and Supramolecular Catalysis, Van t Hoff Institute for Molecular Sciences, Amsterdam*

**"Rational approaches to design selective transition metal catalysts using supramolecular chemistry"**

**OC.A3.1: Polyssena Renzia**, *University of Turin, Via P. Giuria 7, Torino, Italy*

**"Turning on Blue Light on Carbopalladation: a Practical Access to Saturated Heterocycles at Room Temperature"**

**OC.A3.2: Marta Marin-Luna**, *Departamento de Química Orgánica, Facultad de Química, Regional Campus of International Excellence "Campus Mare Nostrum", Universidad de Murcia, Spain*

**"Homodimerization of isocyanides towards the elusive 1,4-diazabutatrienes"**

**OC.A3.3: Emanuele Azzi**, *University of Turin – Chemistry Department, Turin, Italy*

**"Visible Light Triggered Cascade Processes for the Synthesis of Saturated N-heterocycles"**

**OC.A3.4: Juan V. Alegre-Requena**, *Department of Chemistry, Colorado State University, Fort Collins, USA*

**"Phosphorus(V)-promoted Py-Py and CF<sub>3</sub>-Py ligand couplings and Hal-Py SNAr from phosphonium salts: emerging metal-free functionalization of nitrogen heterocycles"**

**OC.A3.5: Thomas Hansen**, *Department of Theoretical Chemistry, Vrije Universiteit Amsterdam, The Netherlands*

**"Origin of the  $\alpha$ -Effect in S<sub>N</sub>2 Reactions"**

**OC.A3.6: Bo Chen**, *Donostia International Physics Center, Donostia-San Sebastián, Spain; IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*

**"High-pressure reaction profiles and activation volumes of 1,3-cyclohexadiene dimerizations computed by the extreme pressure-polarizable continuum model (XP-PCM)"**

**OC.A3.7: Pablo CHOURREU**, *Chimie ParisTech, PSL University, CNRS, Institute of Chemistry for Life and Health Sciences, Paris, France; M2i Development, Lacq, France.*

**"New eco-friendly pathways for the synthesis of insect pheromones by iron-catalyzed cross-coupling: development, industrial applications, and mechanistic aspects"**

**OC.A3.8: Christian Silvio Pomelli**, *Università di Pisa, Dipartimento di Farmacia, Italy*

**"Reactive Deep Eutectic Solvents (ReDESs): an underexploited option for organic chemistry"**

## Subtheme A4 - Supramolecular Chemistry

**IL.A4.1: Werner Nau**, *Jacobs University Bremen, Germany*

**“The Chaotropic Effect as an Assembly Motif in Supramolecular Chemistry”**

**IL.A4.2: Christopher A. Hunter**, *Department of Chemistry, University of Cambridge, UK*

**“Synthetic Information Molecules”**

**OC.A4.1: Federico Begato**, *Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Italy*

**“Straight from the bottle! Wine and juice dicarboxylic acids as templates for supramolecular cage self-assembly”**

**OC.A4.2: Tanja Huber**, *Institut für Anorganische Chemie, Universität Regensburg, Germany*

**“Hydrogen-bonding patterns of amidophosphine sulfides in solution and in the solid-state”**

**OC.A4.3: Vítor A. S. Almodôvar**, *LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Portugal*

**“Synthesis and characterization of new cationic diketopyrrolopyrroles with biological activity”**

**OC.A4.4: Martin Kotora**, *Department of Organic Chemistry, Faculty of Science, Charles University, Praha, Czech Republic*

**“[7]Helical Indenofluorenes: Their Enantioselective Synthesis and Applications”**

**OC.A4.5: A. Martínez-Cuezva**, *Dpto Química Orgánica, Facultad de Química, Universidad de Murcia, Spain*

**“Modulating the catalytic performance of prolinamide-based organocatalysts with the mechanical bond”**

**OC.A4.6: Giorgio Rizzo**, *Dipartimento di Chimica, Università degli Studi di Bari Aldo Moro, Bari, Italy*

**“Synthesis, characterization and polymerization of fluorinated dopamine: evaluation of structural features in bioinspired polydopamine”**

**OC.A4.7: Valentina Iannace**, *Institut de Química Computacional i Catàlisi, Facultat de Ciències, Universitat de Girona, Spain*

**“Regioselective bis-functionalization of fullerene C70 via supramolecular masks”**

**OC.A4.8: Wolter F. Jager**, *Department of Chemical Engineering ChemE Delft University of Technology, The Netherlands*

**“Flexible synthesis of functional perylene 3,4,9,10-tetracarboxylic acid derivatives using ester functionalities as solubilizing, protective and functional groups”**

## Subtheme A5 - Asymmetric Synthesis and Natural Products

**IL.A5.1: Olivier Baudoin**, *University of Basel, Department of Chemistry, Basel, Switzerland*

**“Ring Construction via Palladium(0)-Catalyzed C–H Activation”**

**IL.A5.2: José Alemán**, *Organic Chemistry Department & Institute for Advanced Research in Chemical Sciences, Universidad Autónoma de Madrid, Spain*

**“Development of New Photocatalytic Reactions”**

**IL.A5.3: Janine COSSY**, *Molecular Chemistry and Catalysis, ESPCI Paris, CNRS, PSL University, France*

**“Power of Transition Metals Functionalization and Construction Heterocycles”**

**OC.A5.1: Bojana Srećo Zelenović**, *Faculty of Sciences, Trg Dositeja Obradovića 3, Novi Sad, Serbia*

**“Synthesis, cytotoxicity and SAR analysis of novel dephenylated (–)-goniofufurone analogues”**

**OC.A5.2: Kristína Plevová**, *University Côte d'Azur, Institut de Chimie de Nice, UMR 7272 CNRS, Faculty of Sciences, Nice, France*

**“Unusual enantioselectivity in silver-catalyzed intramolecular [4+2] cycloaddition reaction of amide-1,6-enynes”**

**OC.A5.3: George Kwesiga**, *University of Potsdam, Institut für Chemie, Potsdam, Germany*

**“Scope and Applications of 2,3-Oxidative Aryl Rearrangements for the Synthesis of Isoflavone Natural Products”**

**OC.A5.4: Sándor B. Ötvös**, *Institute of Chemistry, University of Graz, Austria; Center for Continuous Flow Synthesis and Processing (CC FLOW), Research Center Pharmaceutical Engineering GmbH (RCPE), Graz, Austria*

**“Multistep enantioselective flow synthesis of chiral active pharmaceutical ingredients: A journey towards scalability and sustainability”**

**OC.A5.5: Pep Rojo**, *Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, Spain*

**“P-stereogenic ligands in the iridium-catalyzed asymmetric hydrogenation of 2,3-diaryl allyl amines. Preparation of tetrahydroquinoline and tetrahydroisoquinoline scaffolds”**

## **Theme B - Metal Containing Compounds and Solids: Properties and Applications**

### **Subtheme B1 - Organometallic Chemistry**

**IL.B1.1: Emma Gallo**, *University of Milan, Italy and Istituto di Chimica dei Composti OrganoMetallici, ICCOM-CNR, Fiorentino, Italy*

**“Synthesis of heterocyclic compounds promoted by porphyrin-based catalytic systems”**

**IL.B1.2: Reiner Anwander**, *Institut für Anorganische Chemie, Eberhard Karls Universität Tübingen, Germany*

**“New Horizons in Metal-Methyl Chemistry”**

**IL.B1.3: Alexander M. Kirillov**, *Centro de Química Estrutural, Institute of Molecular Sciences, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Bioactive Metal-Organic Networks for Antimicrobial Applications”**

**OC.B1.1: Savvas N. Georgiades**, *Dept. of Chemistry, University of Cyprus, Nicosia, Cyprus*

**“Pd-Catalyzed Photoactivated Late-Stage C-H Functionalization of Biginelli/Suzuki-Derived Substrates for Generating Medicinally-Relevant Compound Libraries”**

**OC.B1.2: Tanja Hirschhausen**, *Paderborn University, Paderborn, Germany*

**“Capability of cyclometalated iron(III)-complexes for photocatalytic water splitting”**

**OC.B1.3: V. Wowk**, *Chimie ParisTech, PSL University, CNRS, Institute of Chemistry for Life and Health Sciences, Paris France*

**“Importance of two-electron processes in Fe-catalyzed aryl-(hetero)aryl cross-couplings”**

**OC.B1.4: Jessica Rodriguez**, *Laboratoire Hétérochimie Fondamentale et Appliquée, Université Paul Sabatier/CNRS UMR 5069, Toulouse, France*

**“Au(III) Complexes: From Structure Analysis to Reactivity Studies”**

**OC.B1.5: Alessandro Aliprandi**, *Università di Padova, Padova, Italia*

**“Understanding self-assembly of luminescent Pt(II) complexes: synthesis and properties”**

### **Subtheme B2 - Multimetallic systems**

**IL.B2.1: Carlos Salgueiro**, *FCT-NOVA, New University of Lisbon*

**“Modulation of the iron properties in multiheme cytochromes for sustainable green-energy alternatives”**

**IL.B2.2: Thomas Fässler**, *Department Chemistry, Technical University of Munich, Germany*

**“Search Strategy for Novel Superionic Solid-State Lithium-Ion Conductors – Lithium-Phosphido Trielates and Tetrelates”**

**OC.B2.1: Jacopo Tassarolo**, *Dept. of Chemistry, TU Dortmund University, Germany*

**“Self-Assembly of Multifunctional Coordination Cages”**

**OC.B2.2: Simon Tricard**, *Laboratoire de Physique et Chimie des Nano-Objets, INSA, CNRS, Université de Toulouse, Toulouse, France*

**“Spin crossover in Fe(triazole)-Pt nanoparticle self-assembly structured at the sub-5 nm scale”**

## Subtheme B3 - Molecular Magnets

**IL.B3.1: Richard Winpenny**, *Department of Chemistry, The University of Manchester, Oxford Road, United Kingdom*  
“From Rings to Nanostructures”

**OC.B3.1: Piotr Świder**, *Department of Analytical Chemistry, Faculty of Chemistry, University of Gdansk, Gdansk, Poland*  
“Amino – functionalized Supermagnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles. Synthesis and interaction with the silver ion”

**OC.B3.2: Ilyes Mahti**, *CEA, DES, ISEC, DMRC, Univ Montpellier, Marcoule, France*  
“Effect of metal complexation on the DOTA radiolysis”

**OC.B3.3: Roberta Puglisi**, *Institute for Polymers Composites and Biomaterials - National Research Council (IPCB-CNR), Catania, Italy*  
“Hybrid magnetic nanoparticles coated with Molecularly Imprinted Polymers for hazardous pollutants sequestration from water”

## Subtheme B4 - Inorganic Interfaces

**IL.B4.1: Steven De Feyter**, *KU Leuven, Department of Chemistry, Belgium*  
“Controlling self-assembly and reactivity on surfaces”

**IL.B4.2: Henrik Birkedal**, *Department of Chemistry and iNANO, Aarhus University, Denmark;*  
“Bone biomineralization studies by X-ray diffraction based 2D and 3D imaging”

**IL.B4.3: Maria del Carmen Gimenez Lopez**, *Center for Research in Biological Chemistry and Molecular Materials (CiQUS), University of Santiago de Compostela, Spain*  
“Advanced Energy Materials for Sustainable Future”

**OC.B4.1: J.C. García-Mesa**, *Department of Analytical Chemistry, Faculty of Sciences, University of Málaga, Spain*  
“New methodologies to characterize ZnO nanoparticles in cosmetic samples”

**OC.B4.2: Tobias Götz**, *Institut für Anorganische Chemie, Universität Regensburg, Germany*

“Tailor-Made Modification of Siloxanes and Investigation of the Reactivity of Cyclic Five-Membered Diaminosilanes”

**OC.B4.3: Ivan Kodrin**, *Department of Chemistry, Faculty of Science, University of Zagreb, Croatia*

“Rational design of porous organic materials based on azo, azoxy and azodioxy linkages for the selective adsorption of CO<sub>2</sub> over N<sub>2</sub>”

**OC.B4.4: Bilal Javed**, *School of Food Science and Environmental Health, College of Sciences and Health, Technological University Dublin, Dublin, Ireland; Nanolab, FOCAS Research Institute, Technological University Dublin, Dublin, Ireland*

“Size and Shape Controllable Synthesis of Seedless Gold Nanoparticles for the Development of Immunochromatographic Assay”

**OC.B4.5: Eric Pasquinet**, *CEA-DAM Le Ripault, Monts, France*

“Detection of hydrogen peroxide vapours with a fluorescent dioxazaborocane: molecular insight into the mechanism”

## Subtheme B5 - Porous Materials

**IL.B5.1: Christian Serre**, *Institut des Matériaux Poreux de Paris (IMAP), ESPCI Paris, Ecole Normale Supérieure de Paris, CNRS, PSL University, France*

“Towards green synthesis and applications of robust MOFs”

**IL.B5.2: Katharina M. Fromm**, *University of Fribourg, Department of Chemistry, Fribourg, Switzerland*

**“Coordination polymers as toolbox for a panoply of applications: from antimicrobial properties via clay-like behavior to detection, sensing and separation”**

**IL.B5.3: Michael Zaworotko**, *Depart. of Chemical Sciences and Bernal Institute, University of Limerick, Limerick, Ireland*  
**“The “Chemistree” of porous solids”**

**OC.B5.1: Moisés L. Pinto**, *CERENA, Dep. Engenharia Química, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Tuning Cellular Biological Functions Through the Controlled Release of NO from new MOF structures”**

**OC.B5.2: Franck Oswald**, *University of Fribourg, Department of Chemistry, Fribourg, Switzerland*

**“The development of new luminescent MOFs for molecular detection”**

**OC.B5.3: Fatemeh Keshavarz**, *Department of Physics, School of Engineering Science, LUT University, Lappeenranta, Finland*

**“Metal-organic framework formation from [Fe<sub>4</sub>S<sub>4</sub>] clusters and its prospects for gas adsorption”**

**OC.B5.4: Alexander Elliott**, *WestCHEM, School of Chemistry, The University of Glasgow, UK*

**“Engineering porosity in molecular nanocontainers: From molecular sieving to catalysis”**

**OC.B5.5: Abeer Al Mohtara**, *Instituto Superior Técnico, Departamento de Engenharia Química, CERENA, Universidade de Lisboa, Portugal*

**“Robust MOFs for the Selective VOCs Capture Under Ambient Conditions”**

**OC.B5.6: Maksym Karamash**, *Department of Chemistry, University of Fribourg, Switzerland*

**“Rates of Extracellular Electron Transfer in *Geobacter sulfurreducens* Wild Type and Mutants. Experiments in the Resting and the Growth Phase”**

## **Theme C - Chemistry Meets Biology**

### **Subtheme C1 - Chemical Biology**

**IL.C1.1: Oliver Seitz**, *Department of Chemistry, Humboldt-Universität zu Berlin, Germany*

**“Live cell labelling of proteins and carbohydrates by templated chemistry”**

**IL.C1.2: Matthew Baker**, *CTR, MERLN, Fac. Health, Medicine and Life Sciences, Maastricht University, Netherlands*

**“Macromolecular design for 3D hydrogel biomaterials”**

**IL.C1.3: Edward W. Tate**, *Imperial College London, Depart. of Chemistry, Molecular Sciences Research Hub, London, UK*

**“Chemical Probes enabling Drug Discovery”**

**IL.C1.4: Christian A. Olsen**, *Center for Biopharmaceuticals and Department for Drug Design and Pharmacology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark*

**“Chemical Tools for Investigating Histone Deacetylase (HDAC) Enzymes”**

**IL.C1.5: Marina Rubini**, *O'Brien Centre for Science, Belfield, University College Dublin, Ireland*

**“The use of proline analogues in protein engineering and design”**

**OC.C1.1: Justine V. Schwarte**, *Department of Chemistry, University of Fribourg, Switzerland*

**“Blue, photo-stable and non-cytotoxic dyes, with antimicrobial properties”**

**OC.C1.2: Moser, P.**, *University of Grenoble Alpes, CNRS, DPM, UMR 5063, Grenoble, France*

**“A disulfide-based self-immolative linker as prodrug approach for the release of carboxylic acids in cells”**

**OC.C1.3: P. Klahn**, *Technische Universität Braunschweig, Institute of Organic Chemistry, Braunschweig, Germany; University of Gothenburg, Department of Chemistry and Molecular Biology, Göteborg, Sweden*

**“Inspired by nature’s design: Biomimetic enterobactin analogues for antimicrobial drug conjugates”**

**OC.C1.4: Hannes Mikula**, *Institute of Applied Synthetic Chemistry, TU Wien, Vienna, Austria*

**“Exit the Cube’: Next-Level Chemical Tools for Ultrafast Bioorthogonal Bond-Cleavage”**



**OC.C1.5: Gustavo P. Maia**, *Centro de Química Estrutural – Institute of Molecular Sciences, Universidade de Lisboa, Lisbon, Portugal*

**“Why nucleosides in meteorites? An approach based on mechanochemical studies”**

**OC.C1.6: Thacilla I. Menezes**, *Research Center in Chemistry (CIQ-UP), Faculty of Sciences of the University of Porto, Portugal*

**“Dithiocarbazate-Loaded Nanostructured Lipid Carriers: Preparation, physicochemical characterization and environmental safety assessments”**

**OC.C1.7: Claudia Bonfio**, *Institut de Science et d'Ingénierie Supramoléculaires (ISIS), Strasbourg, France*

**“Towards the emergence of modern cells”**

**OC.C1.8: Alejandro Gutiérrez-González**, *Centro Singular de Investigación en Química Biológica y Materiales Moleculares (CiQUS), Santiago de Compostela, Spain*

**“Unconventional bioorthogonal strategies based on transition metal catalysis”**

**OC.C1.9: Edit Brodzkij**, *Aarhus University, Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Aarhus Denmark*

**“Polymer – lipid hybrid vesicles made of poly(cholesteryl methacrylate) containing amphiphilic block copolymers”**

**OC.C1.10: Jens Frackenhohl**, *Research & Development, Weed Control - Bayer AG, Crop Science Division, Industriepark Höchst, Frankfurt am Main, Germany*

**“A quantum of solace for crops - New lead structures against drought stress interacting with ABA receptor proteins via bioisosterism concepts”**

**OC.C1.11: Irene Boya del Teso**, *Organic Chemistry Department, University of Salamanca, Spain*

**“Hypoxia-activated cancer pro-drugs: a new molecular trigger”**

**OC.C1.12: Sonsoles Martín-Santamaría**, *Center for Biological Research “Margarita Salas”, CSIC, Madrid, Spain.*

**“Exploring immunity and bacterial resistance from the computational side”**

**OC.C1.13: Wiktor Szymanski**, *Medical Imaging Center, UMCG, University of Groningen, The Netherlands*

**“Photopharmacology: tools, applications, and structures”**

## **Subtheme C2 - Sensors and Diagnostic**

**IL.C2.1: Donal O’Shea**, *Royal College of Surgeons in Ireland (RCSI), University of Medicine and Health Sciences, Chemistry Department, Dublin, Ireland*

**“REAL-TIME NEAR INFRARED FLUORESCENCE IMAGING: RESEARCH TOOLS WITH THE POTENTIAL FOR CLINICAL USE”**

**IL.C2.2: Pedro M. P. Gois**, *Research Institute for Medicines (iMed.Ulisboa) Pharmacy Faculty, Universidade de Lisboa, Portugal*

**“New Chemistries for Stimuli-Responsive Targeting Drug Conjugates”**

**OC.C2.1: Laura Buccoli**, *School of Chemical Engineering, University of Birmingham, Birmingham, UK*

**“Surface-confined pyrene-based fluorescence sensors for highly sensitive saccharide detection”**

**OC.C2.2: A. M. G. Silva**, *LAQV/REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade do Porto, Portugal*

**“Rosamine dyes: from synthesis to the preparation of functional materials for optical sensing applications”**

## **Subtheme C3 - Biomolecules: Synthesis and Applications**

**IL.C3.1: Jalila Simaan**, *BiosCiencas, iSm2, CNRS, Aix Marseille Université, Marseille, France*

**“Copper-containing monooxygenases: from enzymatic systems to bioinspired models”**

**IL.C3.2: Christelle Hureau**, *CNRS Toulouse, Université Toulouse III – Paul Sabatier, France*

**“Polyanions to counteract the detrimental interaction between Cu(II)/Zn(II) and the Alzheimer's-related amyloid- $\beta$  peptide”**

**IL.C3.3: Manuel Aureliano**, *FCT and CCMAR Universidade do Algarve, Faro, Portugal*

**“Polyoxovanadates with biological and biomedical activities”**

**OC.C3.1: Á. L. Fuentes de Arriba**, *Organic Chemistry Department, University of Salamanca, Spain*

**“New biomimetic receptors for biomolecules”**

**OC.C3.2: Alexandra Borges**, *LAQV – REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Portugal*

**“Improvement of the physicochemical properties of flavylum dyes using cyclodextrins for Photodynamic Therapy”**

**OC.C3.3: Cristina M. Cordas**, *LAQV, REQUIMTE, Department of Chemistry, NOVA School of Science and Technology, FCT NOVA, Universidade NOVA de Lisboa, Portugal*

**“A newly discovered Dyp-type peroxidase from a marine actinobacterium immobilization and electrochemical characterization”**

**OC.C3.4: Gianluca Maria Farinola**, *Dipartimento di Chimica, Università degli Studi di Bari “Aldo Moro”, Bari, Italy*

**“Functional biohybrid nanomaterials from diatoms microalgae”**

**OC.C3.5: Celine Nieuwland**, *Department of Theoretical Chemistry, Vrije Universiteit Amsterdam, The Netherlands*

**“B-DNA Structure and Stability: Insights from Quantum Chemical Analyses”**

**OC.C3.6: Sainas S.**, *Department of Science and Drug Technology, University of Torino, Italy*

**“MEDS433 a Novel and Potent human Dihydroorotate Dehydrogenase (hDHODH) Inhibitor, Induces Differentiation and apoptosis of Acute Myeloid Leukemia.”**

**OC.C3.7: Takehiro Kato**, *University of Geneva, Geneva, Switzerland*

**“Cyclic Thiosulfonates for Thiol-Mediated Uptake: Cascade Exchangers, Transporters, Inhibitors”**

**OC.C3.8: Boris Vauzeilles**, *Université Paris-Saclay, CNRS, Institut de Chimie des Substances Naturelles, UPR 2301, Gif-sur-Yvette, France*

**“New borinic probes for fast detection and imaging of hydrogen peroxide”**

**OC.C3.9: A.M. Oliveira-Brett**, *University of Coimbra, CEMMPRE, Department of Chemistry, Coimbra, Portugal*

**“Amyloid- $\beta$  peptides interaction with curcumin: AFM and voltammetric characterization”**

**OC.C3.10: Erica Del Grosso**, *University of Rome Tor Vergata, Via della Ricerca Scientifica, Rome, Italy*

**“Dissipative control of DNA-based nanodevices and nanostructures through strand-displacement reaction”**

**OC.C3.11: R. C. Curley**, *Dublin City University, School of Chemical Science, Dublin, Ireland*

**“Phototoxicity of Membrane Permeable Ru(II) Polypyridyl Peptide Conjugates in Cancer and non-Cancer cell lines”**

**OC.C3.12: Estela Sánchez-Santos**, *Faculty of Chemical Sciences, University of Salamanca, Spain*

**“Targeting tryptophan in undruggable proteins”**

**OC.C3.13: András Perczel**, *MTA-ELTE Protein Modeling Research Group & Laboratory of Structural Chemistry and Biology, Eötvös Loránd University, Hungary*

**“Understanding Oncogenic kRas Cycle through Structure and Multiple Time-scale Dynamics Gyula Pálffy<sup>1</sup>, Orsolya Tőke,<sup>2</sup> Dóra K. Menyhárd<sup>1</sup>, György Keserű<sup>3</sup> András Perczel”**

**OC.C3.14: Bruno Henriques**, *LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Portugal*

**“ACCUMULATION (AND IMPACTS) OF RARE EARTHS IN MARINE MACROALGAE: AN ALTERNATIVE SOURCE OF CRITICAL RAW MATERIALS?”**

**OC.C3.15: Georgios Alachouzos**, *Centre for Systems Chemistry, Stratingh Institute for Chemistry, Faculty for Science and Engineering, University of Groningen, The Netherlands*

**“Computational Design, Synthesis and Photochemistry of Cy7-PPG, an Efficient NIR-activated Photolabile Protecting Group for Therapeutic Applications”**

**OC.C3.16: Simona Ranalloa**, *Department of Chemical Science and Technologies, University of Rome Tor Vergata, Italy; Department of Chemistry and Biochemistry, University of California, USA*

**“Protein-Protein communication mediated by an antibody-responsive DNA nanodevice”**

**OC.C3.17: Michele Stasi**, *Technical University of Munich, Department of Chemistry, Germany*

**“Regulating the dynamic folding of a DNA-hairpin at the expense of a small, molecular fuel”**

**OC.C3.18: Sanjiv Prashar**, *COMET-NANO Group. Department of Biology and Geology, Physics and Inorganic Chemistry, ESCET, Universidad Rey Juan Carlos, Móstoles (Madrid), Spain*

**“Synthesis of a theranostic platform based on fibrous silica nanoparticles for the enhanced treatment of triple-negative breast cancer promoted by a combination of chemotherapeutic agents”**

**OC.C3.19: Susana Soares**, *REQUIMTE/LAQV, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade do Porto, Portugal*

**“Interactions of phenolic compounds within oral cavity: deepening the structure-activity to understand astringency mouthfeels”**

**OC.C3.20: Vercruyse W.**, *Analytical and Circular Chemistry, CMK, IMO, Hasselt University, Diepenbeek, Belgium*

**“Bridging the gap between biochar’s physicochemical characteristics and plant growth”**

**OC.C3.21: Ana Marta de Matos**, *Centro de Química Estrutural, Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Portugal*

**“Innovation in the Development of Polyphenol C-Glucosides with Disease-Modifying Effects against Alzheimer’s Disease”**

**OC.C3.22: Jing Yi**, *ISIS, University of Strasbourg, France*

**“A Nonenzymatic Analog of Pyrimidine Nucleobase Biosynthesis”**

## **Subtheme C4 - Bioinorganic Chemistry**

**IL.C4.1: Serena DeBeer**, *Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr, Germany*

**“Making and breaking bonds: Spectroscopic studies of energy converting enzymes”**

**OC.C4.1: Alex H. Miller**, *Department of Chemistry - University of York, Heslington, York, United Kingdom*

**“Immobilisation of redox-reversible artificial metalloenzymes”**

**OC.C4.2: Sofia R. Pauleta**, *Microbial Stress Lab, UCIBIO, DQ, NOVA School of Science and Technology, NOVA University Lisbon, Portugal. Associate Laboratory i4HB -Institute for Health and Bioeconomy, NOVA School of Science and Technology, NOVA University Lisbon, Portugal*

**“Bactericidal activity of new NHC carbenes and their Cu(I) and Ag(I) complexes against pathogenic bacteria”**

**OC.C4.3: Alexander Hoffmann**, *RWTH Aachen University, Institute of inorganic Chemistry, Germany*

**“Obtaining a Molecular Movie via in Operando Raman spectroscopy: Catecholate Formation after Phenolate Attack at a Tyrosinase Model”**

## **Theme D: Colloids and Materials**

### **Subtheme D1 - Assemblies, Aggregates and Interfaces**

**IL.D1.1: Mihir Dass**, *Fakultät für Physik and Center for NanoScience, Ludwig-Maximilians-Universität München, Germany*

**“DNA-assembled functional materials”**

**IL.D1.2: Tibor Kudernac**, *Stratingh Institute for Chemistry, University of Groningen, The Netherlands*

**“Supramolecular Polymers with Life-Like Mechanical Functions”**

**IL.D1.3: Alexander Böker**, *Fraunhofer Institute for Applied Polymer Research (IAP), Universität Potsdam, Germany*

**“Novel Microcontact Printing Approaches for the Generation of Multi-Patch Functional Colloids”**

**OC.D1.1: Iryna Danylo**, *University of Chemistry and Technology in Prague, Prague, Czech Republic*

**“Controlled nanofabrication of 2D material supported catalysts using electron microscope”**

**OC.D1.2: Carlos Lodeiro**, BIOSCOPE Group, LAQV@REQUIMTE, Chemistry Department, NOVA School for Science and Technology, NOVA University Lisbon, Portugal; PROTEOMASS Scientific Society, Caparica, Portugal

**“Preparation Multifunctional 3D-Gold and Pt nanostructures using the Green and Supramolecular Chemistry principles”**

**OC.D1.3: Clémence Chinaud-Chaix**, Laboratoire de Physique et Chimie des Nano-Objets, Toulouse, France; Laboratoire d'informatique de Paris Nord, Villetaneuse, France

**“Binary supercrystal assembly controlled by ligand effects”**

**OC.D1.4: Jakob Reichstein**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Professorship for Inorganic Chemistry, Erlangen, Germany

**“Communicating supraparticles: smart additives to foster materials' intelligence”**

**OC.D1.5: Angelo Nicosia**, Department of Chemical Sciences, University of Catania, Italy

**“Supramolecular porphyrin-based flags in a thermal gradients wind”**

**OC.D1.6: Rita Gelli**, Department of Chemistry “Ugo Schiff” and CSGI, University of Florence, Sesto Fiorentino, Italy

**“Shedding light on biologically relevant colloidal hybrid calciprotein particles: effect of proteins and stabilizing agents”**

**OC.D1.7: Gaëlle Morandi**, Normandie Univ, INSA Rouen, Univ Rouen, CNRS, PBS, Rouen, France

**“Hybridization of poly(oxazoline) and PEO-based amphiphilic copolymers into thermo-sensitive mixed micelles of tunable cloud point”**

**OC.D1.8: Ermelinda Maçõas**, Centro de Química Estrutural and Institute of Molecular Science, Instituto Superior Técnico, Universidade de Lisboa, Portugal

**“Two-photon absorption in 0D carbon nanomaterials from nanographenes to graphene quantum dots and carbon nanodots”**

**OC.D1.9: Rzonsowska Monika**, Faculty of Chemistry and Centre for Advanced Technologies, Adam Mickiewicz University in Poznań, Poland

**“Synthesis and assembly properties of selected T8 and DDSQ silsesquioxanes ligands”**

**OC.D1.10: Ghibom Bhak**, Department of Chemical Engineering, University of Salamanca, Spain

**“Adhesive Peptide Derived from  $\beta$ -Synuclein that Directs the Nanocomposite Assembly of Polydopamine-Core Gold Nanoparticles-Satellite Applicable for Cancer Therapy”**

**OC.D1.11: Ilaria Clemente**, Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy & Center of Colloids and Surface Science (CSGI), Italy

**“Compartmentalized algal-based nanocarriers as vectors for antioxidants: structural and functional characterization”**

## **Subtheme D2 - Nanomaterials and Nanostructures**

**IL.D2.1: Wojciech Bury**, Faculty of Chemistry, University of Wrocław, Poland

**“Searching for porous materials for sorption, separation, and catalysis - from non-covalent systems to porous organic polymers”**

**IL.D2.2: David Portehault**, Sorbonne Université, CNRS, Laboratoire de Chimie de la Matière Condensée de Paris (LCMCP), Paris, France

**“Molten salts to address the solid-state chemistry of nano-objects”**

**IL.D2.3: Jorge Perez Juste** CINBIO and Department of Physical Chemistry, University of Vigo, Spain

**“Hybrid Plasmonic thin-films for SERS-based sensing in solution and in gas phase”**

**OC.D2.1: Joana Vaz-Ramos**, Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), UMR-7504 CNRS-Université de Strasbourg, France

**“Water depollution of toxic organic compounds using magnetic graphene composite adsorbents”**

**OC.D2.2: Leonardo Curti**, Sorbonne Université, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France

**“Molecule-driven control of magnetic anisotropy in superparamagnetic iron oxide nanoparticles”**

**OC.D2.3: Biagio Todaro**, *National Enterprise for NanoScience and NanoTechnology (NEST) Laboratory, Scuola Normale Superiore, Pisa, Italy*

**“Pioglitazone nanoparticles: synthesis optimization and FLIM characterization”**

**OC.D2.4: Andrea Brunelli**, *DAIS - Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy*

**“Influence of dispersion protocols on multicomponent nanomaterials properties and toxicity in the context of safe by design approach”**

**OC.D2.5: Liva Dzene**, *Institut de Science des Matériaux de Mulhouse, CNRS, UMR 7361, Université de Haute-Alsace, Université de Strasbourg, Mulhouse, France*

**“Functionalization of synthetic saponite: addition of anion exchange property”**

## **Subtheme D3 - Theory meets experiments- predicting properties of materials**

**IL.D3.1: Giovanni M. Pavan**, *Department of Applied Science and Technology, Politecnico di Torino, Italy and Department of Innovative Technologies, University of Applied Sciences and Arts of Southern Switzerland, Polo Universitario Lugano, Switzerland*

**“Computational approaches towards bioinspired dynamic materials”**

**IL.D3.2: Aran Garcia-Lekue**, *Donostia International Physics Center, San Sebastian, Spain*

**“Tailoring magnetic and topological fingerprints in graphene nanoribbons”**

**IL.D3.3: Matthieu Verstraete**, *University of Liege, Belgium*

**“Spectroscopy and transport in defected 2D materials”**

**OC.D3.1: Jordi Poater**, *Departament de Química Inorgànica i Orgànica & IQTCUB, Universitat de Barcelona, Barcelona, Spain; ICREA, Barcelona, Spain*

**“Cage—Cage— interaction: Boron cluster-based noncovalent bond and its applications in solid-state materials”**

**OC.D3.2: C. Lionello**, *Department of Applied Science and Technology, Politecnico di Torino, Italy*

**“Toward Chemotactic Supramolecular Nanoparticles: From Autonomous Surface Motion Following Specific Chemical Gradients to Multivalency-Controlled Disassembly”**

**OC.D3.3: Jacopo Cardellini**, *Department of Chemistry “Ugo Schiff”, CSGI, University of Florence, Italy*

**“Membrane Phase Drives the Assembly of Gold Nanoparticles on Biomimetic Lipid Bilayers”**

**OC.D3.4: Annalisa Cardellini**, *Politecnico di Torino, Torino, Italy*

**“Unsupervised machine learning of intrinsic structural dynamics in simple-to-complex micelles”**

**OC.D3.5: Kai S. Exner**, *University Duisburg-Essen, Germany*

**“Theoretical Description of the Oxygen Evolution Reaction: Quo Vadis?”**

## **Subtheme D4 - Organic-Inorganic Hybrids**

**IL.D4.1: Miriam Unterlass**, *University of Konstanz, Department of Chemistry, Germany*

**“Direct Access to Organic-Inorganic Hybrid Materials through Hydrothermal Synthesis”**

**IL.D4.2: Felipe Gándara**, *Materials Science Institute of Madrid - CSIC, Madrid, Spain*

**“Exploiting the role of metal atoms in MOFs with main group elements and arrangements of multiple cations.”**

**IL.D4.3: Marinella Striccoli** - *CNR-IPCF SS Bari, Bari, Italy*

**“Nanocrystal Coupled Dimers and Hybrid Nanostructures”**

**OC.D4.1: Marlène Saulais**, *Univ. Grenoble Alpes, CNRS, Grenoble-INP, LGP2, Grenoble, France*

**“Biobased and UV- sensitive nanoparticles”**

**OC.D4.2:** Franziska Miller, *Department of Chemistry and Pharmacy, Inorganic Chemistry, Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Erlangen, Germany*

**“Hybrid inorganic organic luminescent supraparticle taggants with switchable dual level ID”**

**OC.D4.3:** Beata Dudzic, *Faculty of Chemistry and Centre for Advanced Technologies, Adam Mickiewicz University in Poznan, Poland*

**“Are Silsesquioxanes Susceptible to be Part of Hybrid Ligands?”**

**OC.D4.4:** Carlos Baleizão, *Centro de Química Estrutural, Institute of Molecular Sciences, Department of Chemical Engineering, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Smart hybrid silica nanocarriers with finely tuned structure for control release”**

**OC.D4.5:** Helena I. S. Nogueira, *CICECO and Department of Chemistry, University of Aveiro, Portugal*

**“Polyoxometalate hybrid materials: effects on the photoluminescent properties of lanthanopolyoxometalates”**

## **Subtheme D5 - Nanoparticles: synthesis and applications**

**OC.D5.1:** Peña Paula Tatiana, *Universidad Santo Tomás, Grupo de Investigación en Nuevos Materiales y Energías Alternativas – GINMEA, Facultad de Química Ambiental, Bucaramanga, Colombia*

**“Nanocomposites as chemosensors for heavy metals detection in aqueous solution: nanocellulose-quantum dots”**

**OC.D5.2:** Gerard McGlacken, *University College Cork, Cork, Ireland*

**“Designer Pd nanoparticles for reductive amination using hydrogen: Now one of the best methodology for Reductive Amination?”**

**OC.D5.3:** Monica Tonelli, *Department of Chemistry “Ugo Schiff” and CSGI, University of Florence, Sesto Fiorentino, Florence, Italy*

**“Halloysite nanotubes as nanocontainers in binder materials”**

**OC.D5.4:** Igor Zhitomirsky, *Department of Materials Science and Engineering, McMaster University, Main St. West, Hamilton, Ontario, Canada*

**“Colloidal methods for the fabrication of advanced electrodes for supercapacitors”**

**OC.D5.5:** Natércia C.T. Martins, *CICECO-Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*

**“Development of hydrophobic paper-based substrates by inkjet printing for SERS detection of pesticides”**

**OC.D5.6:** Demetra Giuri, *Dipartimento di Chimica Giacomo Ciamician, Alma Mater Studiorum, Università di Bologna, Italy*

**“Peptide-based low-molecular-weight gels as versatile and functional materials”**

**OC.D5.7:** Francesca Ridi, *Department of Chemistry “Ugo Schiff” and CSGI, University of Florence, Sesto Fiorentino, Italy*

**“Magnesium phosphate-based bone cements: physico-chemical study and colloidal approaches to tailor their properties towards orthopedic applications”**

**OC.D5.8:** Teresa Guaragnone, *Department of Chemistry “Ugo Schiff” and CSGI, Sesto Fiorentino (FI), Italy*

**“pH responsive pHEMA/PAA hydrogel for the capture of Copper Ions and Corrosion Removal: implication in Cultural Heritage Fields”**

**OC.D5.9:** Massimo Bonini, *Department of Chemistry “Ugo Schiff” and CSGI, University of Florence, Sesto Fiorentino, Florence, Italy*

**“3D printing of magnesium-based cements: towards the preparation of bioceramics”**

**OC.D5.10:** Badetti Elena, *DAIS - Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy*

**“Influence of Amino Acids on the Antibacterial Activity of Copper Oxide Nanoparticles”**

**OC.D5.11:** Andrea Casini, *Department of Chemistry “Ugo Schiff” University of Florence, Italy; Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase (Center for Colloid and Surface Science), University of Florence, Italy*

**“Jin shofu starch as a consolidant for modern and contemporary art: nano-sized hydrogel dispersions for the treatment of matte and powdering paint layers”**

**OC.D5.12: Ana C. Estrada**, *CICECO-Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*  
“Visible-light driven BiVO<sub>4</sub> photocatalysts for the degradation of contaminants of emerging concern”

## Theme E: Biomaterials and Medicinal Chemistry

### Subtheme E1 - Drug Design and Discovery

**IL.E1.1: Ana Rita C. Duarte**, *LAQV/REQUIMTE, Department of Chemistry, NOVA School of Science and Technology, FCT NOVA, Caparica, Portugal*

“Formulation of therapeutic deep eutectic systems targeting current challenges in pharmaceutical sciences”

**IL.E1.2: Elisabetta Groaz**, *Medicinal Chemistry, Rega Institute for Medical Research, KY Leuven, Belgium*

“Nucleoside phosphonate prodrugs as prominent source of hepatitis B virus (HBV) inhibitors”

**IL.E1.3: Gilles Gasser**, *Chimie ParisTech, PSL University, CNRS, Institute of Chemistry for Life and Health Sciences, Paris, France*

“Towards Selective Delivery of Novel Metal-Based Photosensitizers for Anticancer Photodynamic Therapy”

**OC.E1.1: Silva KHODJOYAN**, *Institut de Chimie des Substances Naturelles, CNRS, Université Paris Saclay, Gif-sur-Yvette, France*

“Targeting respiratory syncytial virus replication by antiviral molecules”

**OC.E1.2: Kesić Jelena**, *University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection, Novi Sad, Serbia*

“Synthesis and SAR study of novel cytotoxic butanolide”

**OC.E1.3: Bengt Erik Haug**, *University of Bergen, Department of Chemistry, Bergen, Norway*

“Design and synthesis of novel ligands for the flavin mononucleotide riboswitch”

**OC.E1.4: Joana Oliveira**, *Laboratório Associado para a Química Verde – REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Portugal*

“Photoactivated cell-killing amino-based flavylum compounds”

**OC.E1.5: Ana Rita Franco**, *Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milano, Italy*

“Development of New Toll-Like Receptor 4-directed adjuvants and Clarification of their Mechanism of Action”

**OC.E1.6: Tran Dieu Hang**, *Vrije Universiteit Brussel (VUB), Department of Analytical Chemistry, Applied Chemometrics and Molecular Modelling - FABI, Brussels, Belgium*

“Structural investigation of human cystine/glutamate antiporter Sxc- using homology modeling with multiple templates and molecular dynamics simulations”

**OC.E1.7: Elizabeth A. Lopes**, *Research Institute for Medicines (iMed.Ulisboa), Faculty of Pharmacy, Universidade de Lisboa, Lisbon, Portugal*

“Spirooxadiazoline oxindole: a new antiplasmodial chemotype with dual-stage activity”

**OC.E1.8: Á. L. Fuentes de Arriba**, *Organic Chemistry Department, University of Salamanca, Salamanca, Spain*

“Synthesis Of Antineoplastic Pro-Drugs Activated Under Hypoxia Conditions”

### Subtheme E2 - Drug Delivery

**IL.E2.1: Christoph E Hagemeyer**, *Nanobiotechnology Laboratory, Australian Centre for Blood Diseases, Central Clinical School, Monash University, Victoria, Australia*

“Development of novel diagnostics and antibody-drug-conjugates using a combination of click chemistry and enzymatic ligation”

**IL.E2.2: Elena Aznar**, *School of Industrial Engineering, Universitat Politècnica de Valencia, Spain*

### **“Gated materials for drug delivery and biomedical applications”**

**OC.E2.1:** A.P. Capêto, *Universidade Católica Portuguesa, CBQF - Centro de Biotecnologia e Química Fina – Laboratório Associado, Escola Superior de Biotecnologia, Porto, Portugal*

#### **“Synthesis of bio-based polyester from microbial lipidic residue for biomedical application”**

**OC.E2.2:** Giulia Mugnaini, *CSGI & Department of Chemistry “Ugo Schiff”, University of Florence, Sesto Fiorentino, Florence, Italy*

#### **“Photocross-linked gelatin methacryloyl microparticles prepared by double emulsion method for drug delivery”**

## **Subtheme E3 - Metals in Medicine**

**IL.E3.1:** Nils Metzler-Nolte, *Ruhr University Bochum, Bochum, Germany*

#### **“A Bioorganometallic Journey from Peptide Bioconjugates to Novel Metal-based Antibiotics”**

**IL.E3.2:** Anne-Kathrin Duhme-Klair, *Department of Chemistry, University of York, UK*

#### **“Siderophores and their potential applications in the development of antimicrobials”**

## **Subtheme E4 - Biopolymers, Hydrogels and Processing**

**IL.E4.1:** Veronica I. Dodero, *Bielefeld University, Germany*

#### **“Supramolecular Medicine: From basic research to gluten-related disorders”**

**IL.E4.2:** J. F. Mano, *Department of Chemistry, CICECO — Aveiro Institute of Materials, University of Aveiro, Portugal*

#### **“Macromolecular design in natural-origin hydrogels for tissue engineering applications”**

**IL.E4.3:** Takashi Hayashita, *Department of Material and Life Sciences, Sophia University, Tokyo, Japan*

#### **“Design and Function of Nanostructure Probes for Bacteria Discrimination”**

**OC.E4.1:** Wiebke Schnettger, *TU Dortmund, Dortmund, Germany*

#### **“Tailor-Made, Self-Healing Hydrogels For Biomedical Applications”**

**OC.E4.2:** Lucie Mašková, *University of Chemistry and Technology – Department of Chemical Engineering, Prague, Czech Republic*

#### **“Nature-based 3D bioprinted films for controlled in-situ synthesis of bactericides”**

**OC.E4.3:** João M. M. Rodrigues, *CICECO – Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*

#### **“Bioinspired Tunable Laminarin Biomaterials for Biomedical Applications”**

**OC.E4.4:** Cláudia G. Silva, *LSRE-LCM – Laboratory of Separation and Reaction Engineering - Laboratory of Catalysis and Materials, Faculty of Engineering, University of Porto, Portugal; ALiCE – Associate Laboratory in Chemical Engineering, Faculty of Engineering, University of Porto, Portugal*

#### **“Carbon xerogels as a purification platform for L-asparaginase purification”**

**OC.E4.5:** Pascal Lienig, *Institute of organic chemistry, Leibniz University Hannover, Germany*

#### **“Dextrans, pullulan and lentinan, new scaffold materials for use as hydrogels in tissue engineering”**

## **Subtheme E5 - Diagnostics and Nanotherapeutics**

**IL.E5.1:** Teresa Pellegrino, *Istituto Italiano di Tecnologia (IIT), Genova, Italy*

#### **“Engineering Magnetic Nano-platforms to Combine Magnetic Hyperthermia with other Therapeutic Treatments for Tackling Cancer”**



**OC.E5.1: Patrícia Rijo**, *Research Center for Biosciences & Health Technologies (CBIOS), Universidade Lusófona de Humanidades e Tecnologias, Lisboa, Portugal; Instituto de Investigação do Medicamento (iMed.Ulisboa), Faculdade de Farmácia, Universidade de Lisboa, Portugal*

**“Natural royleanones as building blocks for a Drug Delivery Platform based on Self-assembled Nanoparticles”**

**OC.E5.2: M. C. Sportelli**, *Chemistry Department, University of Bari “Aldo Moro”, Bari, Italy*

**“ZnO nanoparticles as effective antivirals against SARS-CoV-2”**

**OC.E5.3: Gruzman Arie**, *Bar-Ilan University, Webb street 1, Ramat-Gan, Israel*

**“A leukocyte transmigration inhibitor: a novel drug candidate for the treatment of auto-immune diseases”**

**OC.E5.4: María Sancho-Albero**, *Department of Molecular Biochemistry and Pharmacology, Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milano, Italy*

**“Extracellular vesicle-coated organosilica nanoparticles as targeted delivery nanocarriers”**

**OC.E5.5: Ma Xin**, *Institut des Matériaux Poreux de Paris, Ecole Normale Supérieure, ESPCI, Paris, France*

**“Understanding and controlling the toxicity and stability of MIL-100(Fe) toward effective drug-gene dual delivery carrier for anticancer therapy”**

**OC.E5.6: Alessandro Ajó**, *Università degli Studi di Milano, via Festa del Perdono, Milano, Italy*

**“Nanovectors for proteins release and barrier crossing”**

**OC.E5.7: João Borges**, *CICECO – Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Aveiro, Portugal*

**“Supramolecular design of hybrid biopolymer/peptide soft multicomponent biomaterials for regenerative medicine”**

**OC.E5.8: María de los Ángeles Ramírez**, *Université de Strasbourg, CNRS, Institut de Physique et Chimie des Matériaux de Strasbourg, UMR 7504, Strasbourg, France*

**“Theragnostic agents for breast cancer treatment: design of Iron Oxide Nanoparticles for multimodal therapies strategies”**

## **Subtheme E6 - Molecular Sensors**

**IL.E6.1: Dirk-Peter Herten**, *Institute for Cardiovascular Sciences, School of Chemistry and Centre of Membrane Proteins and Receptors (COMPARE), University of Birmingham, United Kingdom*

**“Make them blink! - A chemistry approach to advanced fluorescence microscopy”**

**OC.E6.1: Maria Antonietta Casulli**, *Department of Materials and Life Science, Sophia University, Tokyo, Japan*

**“Cyclodextrin Supramolecular Complexes Based on Specific Bonding Groups for the Selective Detection of Human Metabolites”**

**OC.E6.2: Rute A. Pereira**, *Departamento de Física and CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal*

**“Nanomagnetic logic gates for cellular hyperthermia”**

**OC.E6.3: Matthias Portius**, *Universität Leipzig, Institute of Biochemistry, Leipzig, Germany*

**“Synthesis of sulfamethoxazole derivatives for coupling to hydrogel microparticles in biosensing applications”**

## **Theme F: Catalysis**

### **Subtheme F1 - Organo and Metal Homogenous Catalysis**

**IL.F1.1: Jose L. Vicario**, *Department of Organic and Inorganic Chemistry, University of the Basque Country, Bilbao, Spain*

**“Exploring new reactivity patterns through the organocatalytic activation of small- and medium-sized carbocycles”**

**IL.F1.2:** Manuel Orlandi, *University of Padova, via Marzolo, 1, 35131, Padova, Italy*

**“Enantioselective  $\alpha$ -Arylation of Ketones via a Novel Cu(I) Bis(phosphine) Dioxide Catalytic System”**

**IL.F1.3:** John F. Bower, *Department of Chemistry, University of Liverpool, United Kingdom*

**“New Electrophilic Amination Strategies for N-Heterocycle Synthesis”**

**OC.F1.1:** Sofia M. Bruno, *CICECO-Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*

**“Selective isomerization of  $\alpha$ -pinene oxide to campholenic aldehyde by ionic liquid-supported indenyl-molybdenum(II)-bipyridine complexes”**

**OC.F1.2:** Norbert Krause, *Dortmund University of Technology, Organic Chemistry, Dortmund, Germany*

**“Sustainable Gold Catalysis in Water Using Cyclodextrin- or PQS-tagged NHC-Gold(I) Complexes”**

**OC.F1.3:** Antonio Monopoli, *Università degli Studi di Bari Aldo Moro, Bari, Italy; b) CNR ICCOM- Sede di Bari, Bari, Italy*

**“Direct synthesis of 3-aryl substituted isocoumarins through Palladium mediated C(sp<sup>2</sup>)-H Activation in Ionic Liquids”**

**OC.F1.4:** Ádám Márk Pálvölgyi, *Institute of Applied Synthetic Chemistry, TU Wien, Vienna, Austria*

**“Sterically demanding, flexible phosphoric acids for constructing multi-purpose asymmetric organocatalysts”**

**OC.F1.5:** Christopher J. Whiteoak, *Dpto. de Química Orgánica y Química Inorgánica, Edificio de Farmacia, Universidad de Alcalá, Madrid, Spain*

**“Development of Powerful Ga-based Catalysts for Cyclic Carbonate Synthesis and Application in the Synthesis of Value-added Bio-derived Compounds”**

**OC.F1.6:** Pascal Vermeeren, *Theoretical Chemistry, Vrije Universiteit Amsterdam, The Netherlands*

**“How Lewis Acids Catalyze Diels-Alder Reactions”**

**OC.F1.7:** Fabio Juliá, *Department of Chemistry, University of Manchester, Manchester, UK*

**“Can simple amines mimic organotin?: Aminoalkyl radicals as halogen-atom transfer (XAT) agents for redox chemistry”**

**OC.F1.8:** Maximilian Menche, *BASF Quantum Chemistry, Ludwigshafen am Rhein, Germany; Catalysis Research Laboratory (CaRLa), Heidelberg, Germany*

**“Substrate-dependent Mechanistic Differences in Ni-catalyzed Carbonylations to Carboxylic Acids”**

**OC.F1.9:** Cyprien Muller, *Institut de Science et d'Ingénierie Supramoléculaires (ISIS), CNRS UMR 7006, Université de Strasbourg, France*

**“Synthesis of Densely Functionalized Isochromans through a Cascade Reaction Mediated by HFIP”**

**OC.F1.10:** Giulio Bresciani, *Università di Pisa, Dipartimento di Chimica e Chimica Industriale, Pisa, Italy*

**“New CO<sub>2</sub> fixation Routes to Access Cyclic Carbamates and Carbonates Under Ambient Conditions”**

**OC.F1.11:** Najoua Choukairi Afailal, *Institut de Química Computacional i Catàlisi (IQCC) i Departament de Química, Universitat de Girona, Campus Montilivi, Girona, Catalunya, Espanya*

**“Dearomatizative Syn-Dihydroxylation of Arenes”**

**OC.F1.12:** Eveline H. Tiekink, *Vrije Universiteit Amsterdam, HV Amsterdam, The Netherlands*

**“How Lewis Acids Catalyze Ene Reactions”**

**OC.F1.13:** Pol De La Cruz-Sánchez, *Departament de Química Física i Inorgànica, Universitat Rovira i Virgili, Tarragona, Spain*

**“NEW GENERATION OF IMPROVED CATALYSTS FOR THE CONSTRUCTION OF CHIRAL C-C AND C-X BONDS. ENHANCING Pd-CATALYZED ASYMMETRIC ALLYLIC SUBSTITUTION REACTIONS”**

**OC.F1.14:** Jaime Ponce de León, *I. U. CINQUIMA/Química Inorgánica, Universidad de Valladolid, Valladolid, Spain*

**“Strategies for an increased selectivity in the catalytic synthesis of highly fluorinated biaryls”**

**OC.F1.15:** Sergey Tin, *Leibniz-Institut für Katalyse e.V., Rostock, Germany; Henkel AG & Co. KGaA, Düsseldorf, Germany*

**“Use of Iridium-Catalyzed Transfer Vinylation as an Efficient Synthetic Route towards Bio-Based (bis)-Vinyl Ethers”**

**OC.F1.16:** Pauline Schiltz, *Laboratoire de Chimie Moléculaire, CNRS UMR 9168, École Polytechnique, Institut Polytechnique de Paris, France*

**“Cobalt Complexes supported by Phosphinoquinoline Ligands for the Catalyzed Hydrosilylation of Carbonyl Compounds”**

**OC.F1.17:** Lars Borchardt, *Ruhr-University Bochum, Bochum, Germany*

**“Direct Mechanocatalysis – The Milling Ball is the Catalyst”**

**OC.F1.18:** *Laia Vicens, Institut de Química Computacional i Catàlisi (IQCC), Departament de Química, Universitat de Girona. Campus Montilivi, Girona, Catalonia, Spain*

**“Remote Amino Acid Recognition Enables Effective Hydrogen Peroxide at a Manganese Oxidation Catalyst”**

**OC.F1.19:** *Nikola Topolovčan, Ruđer Bošković Institute, Zagreb, Croatia*

**“Four faces of one compound: Transformations of isoindolinone-derived N(acyl) ketimines”**

## **Subtheme F2 – Heterogeneous and Supported Catalysis**

**IL.F2.1:** *Jeremy Luterbacher, Institute of Chemical Sciences and Engineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland*

**“Developing new bio-based chemicals by direct functionalization of biomass with acetals”**

**OC.F2.1:** *G. Grillo, Department of Drug Science and Technology, University of Turin, Italy*

**“Tailoring Furfural Reactivity On Au/CeO<sub>2</sub> Catalysts: Base-Free Oxidative Esterification Enhanced By Protecting Agent And Microwave Irradiation”**

**OC.F2.2:** *J. García-Martínez, Laboratorio de Nanotecnología Molecular, Departamento de Química Inorgánica, Universidad de Alicante, Spain*

**“Zeolites Made out of Other Zeolites”**

**OC.F2.3:** *Linda Klag, Institute for Chemical Technology and Polymer Chemistry (ITCP), Karlsruhe Institute of Technology, Germany*

**“Spatially-resolved insights into activity and structure of mixed metal oxide catalysts during selective propylene and isobutene oxidation”**

**OC.F2.4:** *E. Pachatouridou, Chemical Process and Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH), Thessaloniki, Greece*

**“Upgrading the Heavy Pyrolytic Oil from End-of-Life Tyres to High-Quality Carbon Black Feedstock via Hydrodesulphurization and Aromatization”**

**OC.F2.5:** *J. J. Garrido-González, Organic Chemistry Department, Faculty of Chemical Sciences, University of Salamanca, Spain*

**“Methanolysis of Non-activated Esters Catalysed by Novel Artificial Enzymes”**

**OC.F2.6:** *Aleix Comas-Vives, Institute of Materials Chemistry, TU Wien, Vienna, Austria; Department of Chemistry, Universitat Autònoma de Barcelona, Catalonia, Spain*

**“Rethinking the Active Site Concept in Computational Heterogeneous Catalysis”**

**OC.F2.7:** *Noemi Linares, Laboratorio de Nanotecnología Molecular, Dpto. Química Inorgánica, Universidad de Alicante, Spain*

**“Unleashing the Potential of Zeolites for the Transformation of Bulky Molecules”**

**OC.F2.8:** *Manfredi Caruso, Department of Chemistry, Materials, and Chemical Engineering “G. Natta”, Politecnico di Milano, Italy*

**“N-Hydroxyphthalimide role in Aerobic Oxidations: Homogeneous versus Heterogeneous Catalysis”**

**OC.F2.9:** *Nataliia Marchenko, Laboratoire de Physique et Chimie des Nano-Objets INSA, Toulouse, France*

**“Selective hydrogenation and hydrodeoxygenation of aromatic ketones using bimetallic FePt<sub>100-x</sub> nanoparticles immobilized on supported ionic liquid phases”**

**OC.F2.10:** *Anna M. Trzeciak, University of Wrocław, Faculty of Chemistry, Wrocław, Poland*

**“Hydrodechlorination of chlorobenzene derivatives catalyzed by Pd/GO in water. A new route to cyclohexanone”**

**OC.F2.11:** *Nawras Abidi, Univ Lyon, Ens de Lyon, CNRS UMR 5182, Université Claude Bernard Lyon 1, Laboratoire de Chimie, Lyon, France*

**“Is doping an efficient strategy to activate the basal plane of 2H-MoS<sub>2</sub> for the hydrogen evolution reaction?”**

**OC.F2.12: Sebastian Weber**, *Institute of Catalysis Research and Technology, Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen, Germany*

**“3D spatially-resolved catalyst characterization by X-ray tomography”**

**OC.F2.13: Sebastian Ponce**, *Universidad San Francisco de Quito, Ecuador*

**“Highly active magnesium-based catalyst for low-energy PET depolymerization”**

**OC.F2.14: Judit Oliver-Meseguer**, *Instituto de Tecnología Química (UPV-CSIC), Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, València, Spain*

**“Few atoms metal clusters with high catalytic and cytotoxic activity characterized by X-Ray Absorption Spectroscopy”**

**OC.F2.15: Iván Sorribes**, *Instituto de Tecnología Química-Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, Valencia, Spain*

**“Innovative activation strategies of molybdenum sulfide-based catalysts for sustainable chemical transformations in fine chemistry”**

**OC.F2.16: Emilia Paone**, *Dipartimento DICEAM, Università degli Studi Mediterranea di Reggio Calabria, Reggio Calabria, Italy; Consorzio Interuniversitario per la Scienza e la Tecnologia dei Materiali (INSTM), Firenze, Italy*

**“Spent Lithium-Ion Batteries: from Waste to an Efficient Heterogeneous Catalyst for the Reductive Upgrading of Biomass-Derived Furfural”**

**OC.F2.17: Mihaela Florea**, *National Institute of Materials Physics, Magurele, Romania; University of Bucharest, Romania*

**“Unprecedented chemoselective behaviour of MAX phase in functionalized nitroarene hydrogenation”**

**OC.F2.18: Marta Mon**, *Sustainable Organic Synthesis and Catalysis Group. Instituto de Tecnología Química. The Valencia Polytechnic University– Spanish Research Council (ITQ, UPV–CSIC).*

**“Sub-nanometric metal species in solution and supported in zeolites or MOFs for organic synthesis”**

**OC.F2.19: Margarida M. Antunes**, *CICECO-Aveiro Institute of Materials, Chemistry Department, University of Aveiro, Portugal*

**“Multifunctional catalysts for targeting different biobased products from furfural”**

**OC.F2.20: Rosa Adam**, *Instituto de Tecnología Química, Universitat Politècnica de València – Consejo Superior de Investigaciones Científicas (UPV – CSIC), València, Spain; Departamento de Química Orgánica, Facultad de Farmacia, Universidad de Valencia, Valencia, España*

**“Heterogeneous Pd-catalyzed efficient synthesis of imidazolones via dehydrogenative condensation between ureas and 1,2-diols”**

### **Subtheme F3 – Bio and Biomimetic Catalysis**

**OC.F3.1: Inês A. S. Matias**, *Centro de Química Estrutural, Institute of Molecular Sciences, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Unprecedented CO<sub>2</sub> fixation into polycarbonates catalysed by C-scorpionate complexes”**

**OC.F3.2: Luisa Maia**, *LAQV, REQUIMTE, NOVA School of Science and Technology | FCT NOVA, Caparica, Portugal*

**“Enzymatic CO<sub>2</sub> reduction to formate: towards a biocatalyst for the use of the abundant atmospheric CO<sub>2</sub>”**

**OC.F3.3: Marie A. Perrin**, *Department of Chemistry and Applied Biosciences (D-CHAB), ETH Zürich, Switzerland*

**“Bioinspired Polymetallic Sulfido Clusters for Nitrate Reduction”**

### **Subtheme F4 – Photo and Electrocatalysis**

**IL.F4.1: Marcella Bonchio**, *University of Padova and ITM-CNR, Department of Chemical Sciences, Italy*

**“SUPRAMOLECULAR QUANTASOMES FOR ARTIFICIAL PHOTOSYNTHESIS”**

**Daniele Leonori**, *Department of Chemistry, University of Manchester, UK; and Institute of Organic Chemistry, RWTH-Aachen University, Germany*

**IL.F4.2: Sami Lakhdar**, *CNRS/Université Paul Sabatier, Laboratoire Hétérochimie Fondamentale et Appliquée (LHFA, UMR5069), Toulouse, France*

**«Making and Breaking Chemical Bonds with Visible Light: Challenges and Opportunities»**

**IL.F4.3: I.A.C. Pereira**, *NOVA University of Lisbon - ITQB NOVA - Instituto de Tecnologia Química e Biológica António Xavier, Portugal*

**“Metal-based biocatalysts for sustainable production of H<sub>2</sub> and reduction of CO<sub>2</sub>”**

**OC.F4.1: Verónica Torregrosa-Rivero**, *Molecular Nanotechnology Lab, Department of Inorganic Chemistry, University of Alicante, Spain*

**“Hybrid L-Tyrosine-titania rutile nanorods and anatase nanoparticles with improved optical properties for photocatalytic applications”**

**OC.F4.2: Michael Schnürch**, *TU Wien, Institute of Applied Synthetic Chemistry, Vienna, Austria*

**“Photocatalytic deaminative benzylation and alkylation of tetrahydroisoquinolines with N-alkylpyridinium salts”**

**OC.F4.3: Carola Tortora**, *Department of Chemistry and Technologies of Drugs, Faculty of Medicine and Pharmacy. "Sapienza" University of Rome, Italy*

**“PHOTORACEMIZATION-BASED VIEDMA RIPENING OF A BINOL DERIVATIVE”**

**OC.F4.4: Uwe Pischel**, *CIQSO – Centre for Research in Sustainable Chemistry, University of Huelva, Spain*

**“Organocatalysis using Ru(II) complexes with pyridine-derived ligands: Implications of photo- and metal-mediated mechanisms”**

**OC.F4.5: Laura F. Mazzei**, *CIC biomaGUNE, Donostia, Spain*

**“Design of Hybrid Structure for Bioorthogonal Drug Photoactivation and Photocatalysis”**

**OC.F4.6: Julie Broggi**, *Aix Marseille Univ, CNRS, Institut de Chimie Radicalaire (ICR), Faculté de Pharmacie, Marseille, France*

**“REDUCTIVE REACTIONS PHOTOCATALYZED BY SUPER ORGANIC ELECTRON DONORS”**

**OC.F4.7: Arianna Quintavalla**, *Department of Chemistry “G. Ciamician”, University of Bologna, Bologna, Italy*

**“Expanding the Reactivity of Allenamides towards Sustainability”**

**OC.F4.8: Radek Cibulka**, *University of Chemistry and Technology, Prague, Czech Republic*

**“Towards Highly Chemoselective Catalytic Photooxidations”**

**OC.F4.9: Beatriz Royo**, *ITQB NOVA, Instituto de Tecnologia Química e Biológica António Xavier, Oeiras, Portugal*

**“Visible-Light Mediated Hydrosilylation of Carbonyls Using Mn(I) N-Heterocyclic Carbene Complexes”**

**OC.F4.10: Diego Mateo**, *King Abdullah University of Science and Technology (KAUST), KAUST Catalysis Center (KCC), Advanced Catalytic Materials, Thuwal, Saudi Arabia*

**“An efficient metal-organic framework-derived nickel catalyst for the light-driven methanation of CO<sub>2</sub>”**

**OC.F4.11: Luka Đorđević**, *Department of Chemistry, Northwestern University; Evanston, IL, USA; Center for Bio-Inspired Energy Science, Northwestern University; Chicago, IL, USA; Simpson Querrey Institute for BioNanotechnology, Northwestern University; Chicago, IL, USA*

**“Selective Catalytic Conversion of Acetylene to Ethylene Powered by Water and Visible Light”**

**OC.F4.12: Andrea Fermi**, *Dipartimento di Chimica “G. Ciamician”, Università di Bologna, Italy*

**“Organic dyes in metallaphotoredox catalysis: strategies and perspectives for C-C bond formation enabled by visible light”**

**OC.F4.13: Pau Besalú-Sala**, *Institut de Química Computacional i Catàlisi and Departament de Química, Universitat de Girona, Spain*

**“Straightforward modelling of reactivity induced by electric fields”**

**OC.F4.14: Vincenzo Ruta**, *Politecnico di Milano, Milano, Italy*

**“Engineering Continuous-Flow Photochemical Microreactors Integrating Single-Atom Catalysts for Clean Water Applications”**

## Theme G: Spectroscopy and Perspectives in Analytical Chemistry / Advances in Physical Chemistry

### Subtheme G1 – New Developments and Methods

**IL.G1.1:** Pavel Jelinek, *Institute of Physics, Czech Academy of Sciences, Czech Republic*

**“High-resolution imaging of molecules by means of scanning probe microscopy”**

**IL.G1.2:** Jiří Homola, *Institute of Photonics and Electronics of the Czech Academy of Sciences, Prague, Czech Republic*

**“Optical biosensors based on surface plasmons: advances and applications”**

**IL.G1.3:** Boris Mizaikoff, *Institute of Analytical and Bioanalytical Chemistry, Ulm University, Germany and Hahn-Schickard, Institute for Microanalysis Systems, Ulm, Germany*

**“Quo Vadis, Mid-Infrared Spectroscopy? From Exhaled Breath Analysis to In-Vivo Biodiagnostics”**

**OC.G1.1:** Cosima D. Calvano, *Dipartimento di Chimica, Centro interdipartimentale SMART, Università degli Studi di Bari Aldo Moro, Bari, Italy*

**“Uncovering of spirulina marker peptides for allergen detection in processed foodstuffs by bottom-up approaches”**

**OC.G1.2:** Marta Da Pian, *Università degli Studi di Padova - DISC, Padova, Italy*

**“Combined use of forensic science in sexual assault: a case report”**

**OC.G1.3:** Shane Grant, *Nanoscale Biophotonics Laboratory, National University of Ireland Galway, University Road, Galway, Ireland*

**“Developing a Robust Elemental Screening Method for Cell Culture Media used in Biopharmaceutical Manufacturing based on Microwave Plasma Atomic Emission Spectroscopy”**

**OC.G1.4:** Rudolf J. Schneider, *BAM Federal Institute for Materials Research and Testing, Berlin, Germany*

**“Anthropogenic markers quantified by rapid immunochemical methods – what can their occurrence in wastewater, surface water, and drinking water tell us?”**

**OC.G1.5:** O. C. Gonçalves, *Centro de Química Estrutural, Institute of Molecular Sciences, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Portugal*

**“Development of Sorption-based Microextraction Techniques for Monitoring VOCs Released from the Four Main Portuguese Tree Species - Influence on wildfire propagation”**

**OC.G1.6:** Tianyu Cen, *Paul Scherrer Institute (PSI), Villigen-PSI, Switzerland; École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland*

**“Online Detection of Metal Containing Nanoparticles in Aerosol via a Single Particle ICP-MS based Technique”**

**OC.G1.7:** Pedro F. Brandão, *CESAM – Centre for Environmental and Marine Studies, Department of Chemistry, University of Aveiro, Portugal*

**“A new approach for water-soluble organic carbon extraction from atmospheric particulate matter under optimised analytical conditions”**

**OC.G1.8:** Gulce Ogruc Ildiz, *Department of Physics, Faculty of Sciences and Letters, Istanbul Kultur University, Turkey; CQC, Department of Chemistry, University of Coimbra, Portugal*

**“Multivariate Statistical Model Based on IR and Raman Spectroscopic Data of Blood Serum for Auxiliary Diagnosis of Mental Disorders”**

**OC.G1.9:** Roberta D’Agata, *Department of Chemical Sciences, University of Catania, Catania, Italy; INBB, Istituto Nazionale di Biostrutture e Biosistemi, Roma, Italy*

**“Plasmonic-based imaging sensor for ultrasensitive molecular diagnostics”**

**OC.G1.10:** Dr. Christiane Kaus, *Institute for occupational safety and health of the German social accident insurance, Sankt Augustin, Germany*

**“Quantitative monitoring of test gas atmospheres in real time and verification of a new dosing system for test gas generation by SIFT-MS”**

**OC.G1.11: Aura Tintaru, Aix-Marseille Université, CNRS – Centre Interdisciplinaire de Nanoscience de Marseille UMR 7325, Marseille, France**

**“Combined ion mobility-mass spectrometry/quantum chemistry approach for direct identification of enantiomers in a natural mixture”**

## **Subtheme G2 – Light and Matter**

**IL.G2.1: Luca Prodi, Dipartimento di Chimica “Giacomo Ciamician” – Università di Bologna – Bologna – Italy;**

**“Dye Doped Silica Nanoparticles as Photoactive Organized Systems for Nanomedicine”**

## **Subtheme G3 – Electrochemistry**

**IL.G3.1: Christopher M.A. Brett, Department of Chemistry, CEMMPRE, University of Coimbra, Portugal**

**“Tailoring electrochemical sensor materials for novel sensor platform architectures”**

**OC.G3.1: John F Cassidy, Applied Electrochemistry Group; School of Chemical and Pharmaceutical Sciences**

**“Formation of an Electroactive Coating Resulting From the Oxidation of Diclofenac on Screen Printed Carbon Electrodes”**

**OC.G3.2: Giovanni Valenti, Department of Chemistry “G. Ciamician”, University of Bologna and INSTM, Bologna, Italy.**

**“New insights into the mechanism of coreactant electrogenerated chemiluminescence facilitating enhanced bioanalytical performance”**

**OC.G3.3: Marcus Fehse, CICenergiGUNE, Vitoria-Gasteiz, Spain**

**“Synchrotron radiation for investigating electrochemical energy storage systems”**

**OC.G3.4: Federico Bella, Department of Applied Science and Technology, Politecnico di Torino, Italy**

**“Chemical strategies to merge conversion, storage and integration of energy for a sustainable society”**

## **Subtheme G4 – Surface Processes and Analysis**

**IL.G4.1: Bernhard Lendl, Univ.Prof. für Analytische Chemie, TU Wien**

**“Mid-IR Laser-Based Photothermal Spectroscopy: New Opportunities for Sensing and Imaging”**

**IL.G4.2: Barbara Kasprzyk-Hordern, Department of Chemistry, University of Bath, UK and Northern Ireland**

**“Mass Spectrometry in urban water profiling for environmental and public health assessment”**

**IL.G4.3: Tia E. Keyes, School of Chemical Sciences, National Centre for Sensor Research, Dublin City University, Ireland**

**“Microcavity Supported Lipid Bilayers: Versatile Microfluidic Models for Biophysical Studies of Membrane Proteins and Lipids”**

**OC.G4.1: Valerio Loianno, Dept. of Chemical, Materials and Production Engineering, University of Naples, Federico II, Naples, Italy**

**“Combining FTIR spectroscopy and pressure-decay techniques to analyze sorption isotherms and sorption kinetics of pure gases and their mixtures in polymers”**

**OC.G4.2: O.S. Ablyasova, Abteilung für Hochempfindliche Röntgenspektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany; Physikalisches Institut, Universität Freiburg, Freiburg, Germany**

**“Disproportionation in gas-phase di-manganese oxide cluster revealed by X-ray absorption spectroscopy”**

**OC.G4.3: Mayara da S. Santos, Abteilung für Hochempfindliche Röntgenspektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany; Physikalisches Institut, Universität Freiburg, Freiburg, Germany**

**“Identification of reactive metal-oxygen species via X-ray absorption spectroscopy”**

**OC.G4.4:** Maria Ricciardi, *Department of Medicine and Surgery, University of Salerno, Baronissi, SA, Italy*

**“An innovative analytical method based on Stable Isotope Ratios of Carbon, Sulfur and Oxygen to identify sources of pollutants in black crust samples”**

**OC.G4.5:** A. Catarina V. D. dos Santos, *Institute of Chemical Technologies and Analytics, TU Wien, Vienna, Austria*

**“Nanoscale Chemical Characterization and Imaging of a Recycled Post-Consumer Waste Polyolefin Blend using AFM-IR”**

## **Subtheme G5 – Applied Physical Chemistry**

**IL.G5.1:** Luis M. N. B. F. Santos, *CIQUP-IMS Institute of Molecular Sciences, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade do Porto, Portugal*

**“NANOSTRUCTURATION, THE KEY FOR THE UNDERSTANDING OF IONIC FLUIDS PROPERTIES”**

**IL.G5.2:** M.F. Montemor, *Centro de Química Estrutural, Institute of Molecular Sciences, Departamento de Engenharia Química, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Fit for the purpose supercapacitors: A new path to enable electrochemical energy storage”**

**OC.G5.1:** Daniela Rodrigues Silva, *Vrije Universiteit Amsterdam, Department of Theoretical Chemistry, Amsterdam Institute for Molecular and Life Sciences, Amsterdam Center for Multiscale Modeling, HV, Amsterdam, The Netherlands*

**“Nature and Strength of Lewis Acid–Base Pairs”**

**OC.G5.2:** Cristian Pezzato, *Institut des Sciences et Ingénierie Chimiques, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland*

**“Light-switchable buffers”**

**OC.G5.3:** Luís P. Viegas, *Coimbra Chemistry Center-Institute of Molecular Sciences (CQC-IMS), Department of Chemistry, University of Coimbra, Portugal*

**“Transition State Theory at the service of Green Chemistry”**

**OC.G5.4:** David Robinson, *Department of Chemistry and Forensics, School of Science and Technology, Nottingham Trent University, Nottingham, United Kingdom*

**“Multiscale Simulations of a Phase Sensitive Probe of Lipid Membrane Structure”**

**OC.G5.5:** Lucas de Azevedo Santos, *Vrije Universiteit Amsterdam, Department of Theoretical Chemistry, Amsterdam Institute for Molecular and Life Sciences, Amsterdam Center for Multiscale Modeling, HV, Amsterdam, The Netherlands*

**“Intermolecular covalent interactions”**

**OC.G5.6:** Gonçalo V. S. M. Carrera, *NOVA, School of Science and Technology, LAQV-REQUIMTE, Caparica, Portugal*

**“Phase Behavior Profile of a General Three-Compound Mixture: A Chemoinformatic Approach”**

**OC.G5.7:** Vito Gallo, *Politecnico di Bari, via Orabona 4 – CAMPUS, I-70125, Bari, Italy; Innovative Solutions S.r.l., Noci (BA), Italy*

**“Community-built analytical systems: from calibration lines to non-targeted analysis by using NMR spectroscopy”**

**OC.G5.8:** Brian Sachini, *CLAN-Center for Light Activated Nanostructures, Istituto ISOF-CNR, Bologna, Italy; Dipartimento di Chimica Industriale “Toso Montanari”, Università di Bologna, Bologna, Italy*

**“Improving Light-Driven Molecular Pumps: Dissecting Thermodynamic and Kinetic Entanglement in a Photoswitchable Molecular Axle”**

## **Subtheme G6 – Photochemistry and Photophysics**

**IL.G6.1:** Fernando Martín, *IMDEA Nanoscience and Universidad Autónoma de Madrid, Spain*

**“Attochemistry: imaging and controlling electron dynamics in molecules with attosecond light pulses”**

**IL.G6.2:** Alan G. Ryder, *School of Chemistry, National University of Ireland, Galway, Ireland*



**“The application of multi-dimensional fluorescence spectroscopy, anisotropy, and chemometrics as a process-wide, analytical technology platform for Biopharmaceuticals”**

**OC.G6.1:** Luís F.B. Fontes, *LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Portugal; CICECO – Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*

**“In situ illumination NMR: photoisomerization of naphthopyran derivatives”**

**OC.G6.2:** R. Fausto, *CQC-IMS, Department of Chemistry, University of Coimbra, Portugal*

**“IR-induced and tunneling reactions in cryogenic matrices: the (incomplete) story of a successful endeavor”**

**OC.G6.3:** Paula Araújo, *Laboratório Associado para a Química Verde – REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Portugal*

**“Multistate of chemical reactions of 4'-dimethyl-7-diethylaminoflavylum. Thermodynamics, kinetics and Photochemistry modulated by water: ethanol, SDS and CTAB micelles”**

**OC.G6.4:** Ivana Nikšić-Franjić, *Ruđer Bošković Institute, Zagreb, Croatia*

**“Impact of positive charge and ring-size on interactions of calixarenes with DNA, RNA and nucleotides”**

**OC.G6.5:** El Mountassir El Mouchtari, *Aix Marseille Univ, CNRS, LCE, Marseille, France*

**“Highly sensitive fluorescence sensors based on rhodamine for detection of Cd (II) and Hg (II) in aqueous media”**

**OC.G6.6:** Cecilia Bruschi, *Institute of Organic Chemistry, Karlsruhe Institute of Technology, Karlsruhe, Germany*

**“New heteroleptic copper(I) complexes: towards more sustainable photosensitizers”**

**OC.G6.7:** Marc Montilla, *Institute of Computational Chemistry and Catalysis, Chemistry Department, University of Girona, Spain*

**“Origin-Independent Energy-Based decomposition of the first and second hyperpolarizabilities”**

## **Transversal theme 1: Imaging**

**IL.Imag.1:** Sara Bals, *Department of Physics, University of Antwerp, Belgium*

**“3D Structure of Nanomaterials under Realistic Conditions”**

**IL.Imag.2:** Susana Rocha, *Molecular Imaging and Photonics, KU Leuven, Leuven, Belgium*

**“Imaging the forces driving cellular behaviour: from material characterisation to 3D cell models”**

**OC.Imag.1:** Roberta Tabone, *Karlsruhe Institute of Technology (KIT), Germany*

**“Intriguing Zn (II) emitters in the “biological window” with large Pseudo-Stokes shift for bioimaging”**

**OC.Imag.2:** Morgane Baudoin, *Univ. Grenoble Alpes, CNRS, DPM, Grenoble, France*

**“High-resolution two-color imaging of peptidoglycan and teichoic acids in *S.pneumoniae* by dSTORM”**

**OC.Imag.3:** E. Rühl, *Physical Chemistry, Freie Universität Berlin, Germany*

**“Hyperspectral Imaging of Drug Penetration Processes in Human Skin”**

## **Transversal theme 2: Energy, Environment and Sustainability**

**IL.EES.1:** Juan Morante, *University of Barcelona, Spain*

**“CO<sub>2</sub> electroreduction to valuable products with high productivities”**

**IL.EES.2:** Elena Selli, *Dipartimento di Chimica, Università degli Studi di Milano. Milano, Italy*

**“Ternary Metal Oxide-based Photoanodes for Solar Energy Conversion”**

**OC.EES.1:** Luis C. Branco, *LAQV-REQUIMTE, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal*

**“Sustainable Ionic and Porous Systems for CO<sub>2</sub> Conversion to Fuels”**

**OC.EES.2:** Elena Serrano, *Laboratorio de Nanotecnología Molecular, Departamento de Química Inorgánica, Universidad de Alicante, Spain.*

**“Functional Photoactive Materials with Tuneable Crystalline Structure and Morphology for Photocatalytic and Solar cell applications”**

**OC.EES.3:** Mark C Gray, *WestCHEM, School of Chemistry, The University of Glasgow, UK*

**“Catalysis in confined spaces: monitoring catalytic activity by modulating the catalytic environment”**

## **Transversal theme 3: Molecules in Motion**

**IL.MM.1:** Alberto Credi, *CLAN-Center for Light Activated Nanostructures, Università di Bologna, Italy*

**“Playing with Molecular Rings and Strings: New Directions for Nanoscale Machines and Motors”**

**IL.MM.2:** Wilhelm Huck, *Radboud University Nijmegen, Institute for Molecules and Materials, The Netherlands*

**“Systems in Motion: On the origins of chemical evolution”**

**OC.MM.1:** Miguel A. Ramos-Docampo, *Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Denmark*

**“Stimuli-responsive polymers to induce locomotion in nanomotors”**

**OC.MM.2:** Chiara Taticchi, *CLAN-Center for Light Activated Nanostructures, Istituto ISOF-CNR, Bologna and Dipartimento di Chimica Industriale “Toso Montanari”, Università di Bologna, Italy;*

**“Towards an Autonomous Photochemically Driven Rotary Motor Based on a Catenane”**

**OC.MM.3:** Qi Zhang, *Stratingh Institute for Chemistry, University of Groningen, The Netherlands*

**“The road to intrinsically dynamic materials: disulfide chemistry as a solution”**

## **Section I – Functional Materials**

### **Subtheme OTS1.1 – Carbon-based Materials**

**IL.OTS1.1:** Diego Peña, *Centro Singular de Investigación en Química Biolóxica en Materiais Moleculares (CiQUS), Departamento de Química Orgánica, Universidade de Santiago de Compostela, Spain*

**“Building nanographenes by combining organic synthesis and surface science”**

**OC.OTS1.1.1:** Victor Blanco, *Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Granada, Spain*

**“Macrocyclic Receptors Incorporating Heptagon-containing Hexa-peri-hexabenzororonene Analogues”**

**OC.OTS1.1.2:** Cecilia Wetzl, *CIC BiomaGUNE, Parque Tecnológico de San Sebastián, San Sebastián, Guipúzcoa, Spain*

**“Graphene field effect transistors for neurotransmitter monitoring”**

**OC.OTS1.1.3:** A.J. Stasyuk, *Institut de Química Computacional and Departament de Química, Universitat de Girona, Girona, Catalonia, Spain; Faculty of Chemistry, University of Warsaw, Poland*

**“Molecular bowls as electron donors in photoinduced electron transfer reactions”**

**OC.OTS1.1.4:** G. Minervini, *Polytechnic of Bari, and University of Bari “Aldo Moro”, Italy*

**“Synthesis of Carbon Dots with Green Photostable Emission in Open Reactor: Study of Fluorescence Origin and Mechanisms”**

**OC.OTS1.1.5:** Sven Grätz, *Ruhr-Universität Bochum, Germany*

**“What Maketh a Pore? The Formation of Porosity in the Solid-State”**

## Subtheme OTS1.2 – Organic Electronics

IL.OTS1.2: Kasper Moth-Poulsen, *Chalmers University of Technology, Sweden*

**“Molecular Solar Thermal Energy Systems”**

OC.OTS1.2.1: Lubomír Švorc, *Institute of Analytical Chemistry, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava, Slovakia*

**“Modern electrochemical sensors in drug and food analysis”**

OC.OTS1.2.2: Michal Valášek, *Institute of Nanotechnology, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany*

**“Tripodal Chromophores for Luminescence Studies on Gold: Towards Organic Optoelectronic Devices”**

OC.OTS1.2.3: Mathias O. Senge, *School of Chemistry, Trinity Biomedical Sciences Institute, Trinity College Dublin, The University of Dublin, Ireland*

OC.OTS1.2.4: Marco Carlotti, *Center for Materials Interfaces, Istituto Italiano di Tecnologia, Pontedera, Italy*

**“Multi-Potent Precursor Approach for the In-Situ Generation of Conjugated Polymers with Complementary Electronic Properties”**

**“Cubane and Bicyclo(1.1.1)pentane – Rigid Hydrocarbon Linkers for Flexible Uses”**

OC.OTS1.2.5: Luca M. Cavinato, *Chair of Biogenic Functional Materials, Technical University of Munich, Germany*

**“Multivariate tool identifying [Cu(N<sup>Λ</sup>N)(P<sup>Λ</sup>P)]<sup>+</sup> design and device architecture enables first-class blue and white light-emitting electrochemical cells”**

OC.OTS1.2.6: Manuel Souto, *Department of Chemistry, CICECO – Aveiro Institute of Materials, University of Aveiro, Aveiro, Portugal*

**“Redox-active organic building blocks for the chemical design of electroactive porous frameworks”**

## Subtheme OTS1.3 – Polymers and devices

IL.OTS1.3: David Écija, *Institute for Advanced Studies in Nanoscience (IMDEA Nanoscience), Madrid, Spain*

**“On-surface synthesis of pi-conjugated polymers”**

OC.OTS1.3.1: Matthias Schneider, *University of Potsdam, Institute of Chemistry, Potsdam, Germany*

**“3D printed PLA scaffolds as versatile Platform for Multipurpose Applications in Chemistry, Biology, and Physics”**

OC.OTS1.3.2: Alessandro Pedrini, *Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy*

**“Cavitand-based hierarchical porous organic polymers for gas adsorption/separation and water treatment”**

OC.OTS1.3.3: Rocío Domínguez, *Instituto de Nanociencia, Nanotecnología y Materiales Moleculares (INAMOL), Universidad de Castilla-La Mancha, Toledo, Spain*

**“Cyclopentadithiophenevinylene oligomers: a new versatile conjugated material”**

OC.OTS1.3.4: Jeremy E. Wulff, *University of Victoria, Victoria, BC, Canada*

**“Universal Crosslinkers for On-Demand Upgrading of Polymer Properties”**

OC.OTS1.3.5: Ana Charas, *Instituto de Telecomunicações, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

**“Improving the electrical conductivity and structural properties of poly(3,4-ethylenedioxythiophene):polystyrenesulfonate (PEDOT:PSS) for thin film and flexible electronics”**

OC.OTS1.3.6: Xuelian LIU, *Normandie Univ, INSA Rouen, UNIROUEN, CNRS, PBS, 76000 Rouen, France*

**“A mechanical robust and thermal resistant polyvinyl resin crosslinked by quadruple hydrogen bonding with self-healing and shape memory properties”**

## Other parallel sections: Chemistry and Society

### Subtheme OTS2.2 – New Tools for Learning

IL.OTS2.2.1: Ron Blonder, *Department of Science Teaching, Weizmann Institute of Science, Israel*

**“Chemistry Teachers’ Personalized Professional Development Framework”**

IL.OTS2.2.2: Silvija Markic, *Ludwig-Maximilians-University Munich, Germany*

**“Importance of learning of scientific language at the university level”**

OC.OTS2.2.1: Tânia Coelho, *FCT NOVA, Campus de Caparica, Monte de Caparica, Portugal*

**“The teacher's professional knowledge and the interdisciplinarity in a context of technology integration”**

OC.OTS2.2.2: Amy S. Cannon, *Beyond Benign, Wilmington, MA, USA*

**“Green chemistry in higher education: An upstream approach to addressing sustainable development goals”**

### Subtheme OTS2.3 – Chemistry and Heritage: preserving and sharing

IL.OTS2.3.1: Isabel Malaquias, *University of Aveiro, Research Centre on Didactics and Technology in the Education of Trainers, Physics Department, Portugal*

**“Didactic physics and chemistry instruments from Portuguese high schools - trash for the bin or a heritage to preserve?”**

IL.OTS2.3.2: Brigitte Van Tiggelen, *Science History Institute, The Netherlands*

**“EuChemS Historical Landmarks: chemists, their past and the sharing of chemical heritage”**

OC.OTS2.3.1: Marta C. Lourenço, *University of Lisbon, National Museum of Natural History and Science, Portugal*

**“Time capsules of innovation: The historical spaces of chemistry in Portugal”**

OC.OTS2.3.2: Natércia Teixeira, *LAQV-REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, Universidade do Porto, Portugal*

**“Unveiling the iron-polyphenol complexes behind medieval iron gall inks through a multi-analytical methodology”**

### Subtheme OTS2.4 – Origin of Life

IL.OTS2.4: Olivier Trapp, *Department of Chemistry, Ludwig Maximilian University Munich, Germany*

**“Initial Steps towards an Evolutionary System leading to the Emergence of Life”**

### Subtheme OTS2.6 – Equity and Responsibility

OC.OTS2.4.1: Guillermo Restrepo, *Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany*

**“The chemical space and some ethical consequences of its uneven growth”**

OC.OTS2.4.2: Jan Mehlich, *Center for Life Ethics, Rheinische Wilhelmsuniversität Bonn, Germany*

**“Teaching Responsible Chemistry: A Challenge-Based Learning Framework for the Implementation of RRI Courses in Chemistry Education”**

OC.OTS2.4.3: Rachel Mamlok-Naaman, *Weizmann Institute of Science, Israel*

**“Women in chemistry – in Scientific Careers (SciCar) Horizon Project”**