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 σ and π 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 CO2 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[1] and Paul Anastas[2]
August Wilhelm von Hofmann Denkmünze 2022
[1]Zymergen Research, Cambridge, MA, USA; [2]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_2 capture mechanisms in porous adsorbents via solid state NMR spetroscsopy"

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 α-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: A. Sofia Santos, *LAQV@REQUIMTE, Department of Chemistry, NOVA School of Science and Technology, Universidade Nova de Lisboa, Caparica, Portugal*
"Exploring the facile synthesis of bis(3-indolyl)methanes derivatives"
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*
"CO2-Mediated Processes"

OC.A2.1: Juliana G. Pereira, *Research Institute for Medicines (iMed.ULisboa), Faculty of Pharmacy, Universidade de Lisboa, Portugal*
"Preparation of aminals (and thioaminals) 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 CF3-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 α-Effect in SN2 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 cyclometaled 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 Tessarolo, *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_3O_4 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 CO2 over N2"
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 Oswalda, *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 [Fe4S4] 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, Switzerlandl*
"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: 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.C1.3: Edward W. Tate, *Imperial College London, Depart. of Chemistry, Molecular Sciences Research Hub, London, UK*
"Chemical Probes enabling Drug Discovery"
IL.C1.4: Matthew Baker, *CTR, MERLN, Fac. Health, Medicine and Life Sciences, Maastricht University, Netherlands*
"Macromolecular design for 3D hydrogel biomaterials"
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 dies, with antimicrobial properties"
OC.C1.2: Moser, P., *Universiy 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 Brodszkij, *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 Frackenpohl, *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, *BiosCiences, 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-β 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 flavylium 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–ß 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 Pálfy1, Orsolya Tőke,2 Dóra K. Menyhárd1, György Keserű3 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: Vercruysse 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: M. Lucia Curri, Department of Chemistry University of Bari and Italian National Research Council CNR IPCF, Bari, Italy.
"Tailoring surface chemistry of colloidal nanomaterials for life science applications"

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 Maçôas, *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 □-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 Dudziec, *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: Leonardo Scarabelli, Institute of Materials Science of Barcelona (ICMAB-CSIC), Barcelona, Spain
"**Surface lattice plasmon resonances by direct surface growth of gold nanoparticles in ordered arrays**"
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: Ana C. Estrada, *CICECO-Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Portugal*
"Visible-light driven BiVO4 photocatalysts for the degradation of contaminants of emerging concern"
OC.D5.12: ?????????

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 flavylium 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 derivates 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 α-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 α-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(sp2)-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 CO2 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/Ceo2 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 FexPt100-x 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-MoS2 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 Polythecnic 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 CO2 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 CO2 reduction to formate: towards a biocatalyst for the use of the abundant atmospheric CO2"
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"
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_2 and reduction of CO_2"**

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-alkylpyrydinium 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 CO2"
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, *Universitá 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 a, *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 Generical 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 Entaglement 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 naphtopyran 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-diethylaminoflavylium. 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*
"CO2 electroreduction to valuable products with high productivities"
IL.EES.2: Elena Selli, *Dipartimento di Chimica, Unviversità 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 CO2 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: **Nicolas Giuseppone**, *University of Strasbourg, Institut Charles Sadron - CNRS, Strasbourg, France*
"Artificial molecular machines that work on all scales"

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*
"Macrocycle Receptors Incorporating Heptagon-containing Hexa-peri-haxebenzororonene 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: Ľubomír 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*
"Cubane and Bicyclo(1.1.1)pentane – Rigid Hydrocarbon Linkers for Flexible Uses"
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**"
OC.OTS1.2.5: Luca M. Cavinato, *Chair of Biogenic Functional Materials, Technical University of Munich, Germany*
"Multivariate tool identifying [Cu(N^N)(P^P)]+ 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 scientistic 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: **Brigitte Van Tiggelen,** *Science History Institute, The Netherlands*
"EuChemS Historical Landmarks: chemists, their past and the sharing of chemical heritage"
IL.OTS2.3.2: **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?"

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"**