1st Women in Supramolecular Chemistry (WISC) workshop: an introduction to Supramolecular Chemistry techniques for early stage career researchers

6th-8th September 2021

PROGRAMME

Monday, September 6th, 2021

8h30 Registration

9h15 Opening Ceremony

Chairman Prof Vito Lippolis (University of Cagliari)

09h30 PL1 Prof Ivan Huc (Ludwig Maximilians University)

“Aromatic foldamers: engineering molecular shape”

10h20 OC1 Christel Dolain (University of Bordeaux)

“Towards the Design and Synthesis of Multi-Stranded β-Sheet Foldamers”

10h35 OC2 Maria Magdalena Cid (Universidade de Vigo)

“Molecular Recognition Phenomena detected by Helicoidal Signals”

10h50 OC3 Morgane Pasco (University of Bordeaux)

“De Novo design and synthesis of artificial helical barrels: toward enzyme mimics”

11h05 Coffee break
Chairman Prof Kay Severin (Ecole Polytechnique Fédérale de Lausanne)

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<th>Time</th>
<th>Room</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>11h25</td>
<td>IL1</td>
<td>Prof Valeria Amendola</td>
<td>University of Pavia</td>
<td>“Azacryptands: versatile molecular cages for recognition and separation processes”</td>
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<tr>
<td>11h55</td>
<td>OC4</td>
<td>Mindy Levine</td>
<td>Ariel University</td>
<td>“Cyclodextrin Complexation: Flexible Molecules with Surprising Chemical Insights”</td>
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<tr>
<td>12h10</td>
<td>OC5</td>
<td>Neha Rani Kumar</td>
<td>Dhemaji College</td>
<td>“Thienyltriazine Based Porous Polymers of Tunable Properties”</td>
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<td>12h25</td>
<td>OC6</td>
<td>Anna Wcisło</td>
<td>University of Gdańsk</td>
<td>“Self-assembling layers on the surface of conductive materials - properties and applications”</td>
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<tr>
<td>12h40</td>
<td>OC7</td>
<td>Valentina Corvaglia</td>
<td>Ludwig Maximilians University</td>
<td>“DNA mimic foldamers: structural features and biological applications”</td>
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<td>12h55</td>
<td>OC8</td>
<td>Eleonora Macedi</td>
<td>University of Urbino</td>
<td>“A ( \text{Cu}^{2+}/\text{Ca}^{2+}/\text{Ca}^{2+}/\text{Cu}^{2+} ) platform for anion binding and sensing”</td>
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<td>13h10</td>
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<td>Lunch break</td>
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Chairman Prof Valérie Heitz (Université de Strasbourg)

14h30   PL2  Prof Michaela J. Hardie (University of Leeds)

“Crystallographic characterisation of large metallo-supramolecular assemblies”

15h20   OC9  Riccardo Montis (University of Urbino)

“Complex structures for a simple organic salt: the extraordinary self-assembly of Fampridine Hydrochloride”

15h35   OC10 Iris Solymosi (Friedrich-Alexander-University Erlangen-Nuremberg)

“Perylene bisimide cyclophane-fullerene hybrids with homochiral recognition”

15h50   OC11 Claire Fave (Université de Paris)

“Synergy between electrochemistry and sigma-hole interactions: from anion recognition to catalysis”

16h05   Coffee break

Chairman Prof Luisa DeCola (University of Milano)

16h25   IL2  Prof Luca Prodi (University of Bologna)

“Dye doped silica nanoparticles as photoactive organized systems for nanomedicine”
16h55 OC12 Ariadna Lazaro (Universitat de Barcelona)

“Promoting excimer formation in [N^C^N] cyclometallated platinum(II) compounds with aromatic alkynyl ligands”

17h10 OC13 Gustavo A. Zelada-Guillén (National Autonomous University of Mexico)

“Tuning supramolecular response in polymer-graphene hybrid nanomaterials for novel flexible portable sensors”

17h25 OC14 Sameh El Sayed (University of Birmingham)

“Selective and sensitive detection of cyanide and sulfide in water by metal-macrocycle-based capped silica mesoporous nanoparticles”

17h40 OC15 Carina I. C. Crucho (Universidade de Lisboa)

“Smart polystyrene-silica core-shell nanoparticles”

17h55 IL3 Prof Laura Rodriguez (Universitat de Barcelona)

“Supramolecular assemblies and luminescence of gold and platinum organometallic complexes”

17h55 Poster session (3 min presentation)

Chairman Dr Giacomo Picci (University of Cagliari)

B1 Dana Kauerhof (University of Duisburg-Essen)

“Heterobifunctional catenanes and rotaxanes for cooperative organocatalysis”

B2 Maike Thiele (University of Duisburg-Essen)
“Complementary double helix formation through hydrogen-bond formation of chiral BINOL-derivatives”

B3 **Zongyao Zhang** (University of Oxford)

“Halogen bonding strapped porphyrin BODIPY rotaxanes for dual optical and electrochemical anion sensing”

B4 **Araceli de Aquino** (Universitat de Barcelona)

“Promoting the heavy atom effect on luminescent supramolecular Au(I) complexes”

B5 **Tobias Paschelke** (Christian-Albrechts-Universität zu Kiel)

“Copper-Free One-Pot Sonogashira-Type Coupling for the Efficient Preparation of Symmetric Diarylalkyne Ligands for Metal-Organic Cages”

B6 **Guillermo Romo Islas** (Universitat de Barcelona)

“Aggregation-induced emission enhancement in bimetallic Pt(II) pincers”

B7 **Luca Conti** (University of Florence)

“Highly charged ruthenium(II) polypyridyl complexes for the development of potential PDT agents”

B8 **David Magri** (University of Malta)

“Applications of Pourbaix Sensors: Molecular Logic Gates for Acidity and Oxidisability”

B9 **Anurag Singh** (Université libre de Bruxelles)
“Calixarenes with halogen bond donors for anion transport”

B10 **Amrutha Prabodh** (Karlsruhe Institute of Technology)

“Fluorescence Detected Circular Dichroism (FDCD) for supramolecular host-guest complexes”

B11 **Selina Hollstein** (University of Ulm)

“Self-assembly of anion receptors based on orthoesters”

B12 **Marianne Engeser** (University of Bonn)

“Gas-phase fragmentation of metallo-supramolecular aggregates”

B13 **Melina Knezevic** (University of Basel)

“Tweezer directed C-H Oxidation”

B14 **Daria Sokolova** (University of Basel)

“Optimized iminium-catalysed 1,4-reductions inside the resorcinarene capsule: Achieving >90% ee with proline as catalyst”

B15 **Patrizia Jankovic** (University of Rijeka)

“Design of short catalytic sequences inspired by enzymatic active sites”

B16 **Andrea Pinto** (Universitat de Barcelona)

“Near unity fluorescent quantum yields of gold(I) benzothiadiazole-based derivatives in organic matrixes”
B18  Alexandra Heidecker (Technical University Munich)

“Analyzing Hexacationic Ag(I)-Pillarplex dodecylammonium pseudorotaxane towards Location and Influence of Interaction Sites in the Solid-State Structure”

B19  Lau Halgreen ((Université libre de Bruxelles)

“Dynamic combinatorial chemistry with imines for the development of phosphate receptors”

B20  Thomas Pickl (Technical University Munich)

“Expanding the scope of macrocyclic poly-NHC ligands: bimetallic palladium(II) and platinum(II) complexes”

B21  Aaron Torres-Huerta (Université libre de Bruxelles)

“Transport of Carboxylates across lipid bilayer membranes”

B22  Gina Elena Giacomazzo (University of Florence)

“Nitroimidazole-based ruthenium(II) complexes: playing with structural parameters to design photostable and light-responsive antibacterial agents”

B23  Rui Kang (Karlsruhe Institute of Technology)

“Self-Assembly Probes (SAPs) solve the selectivity problem of the artificial chemosensors”

B25  João Carlos Lima (Universidade Nova de Lisboa)
“Gold(I)-doped films as efficient room temperature phosphorescent materials”

Tuesday, September 7th, 2021

Chairman Prof. Claudia Caltagirone (University of Cagliari)

09h00 PL3 Prof Jonathan W. Steed (Durham University)

“Supramolecular Gels and how to think about them”

09h50 WISC Event

11h00 Coffee break

Chairman Prof Laura Rodriguez (Universitat de Barcelona)

11h20 IL4 Prof Hennie Valkenier (Université libre de Bruxelles)

“Monitoring Transmembrane Transport of Ions using Fluorescence Spectroscopy”

11h50 OC16 Laura Bickerton (University of Oxford)

“Highly active halogen bonding and chalcogen bonding chloride transporters with non-protonophoric activity”

12h05 OC17 Rebecca Randle (University of Glasgow)

“Effect of pH and functionalisation of self-assembled naphthalene diimides for smart window applications”
12h20  OC18 **Rashmi Sharma** (IISER Pune)

   “Transmembrane anion-sensitive ion channels by self-assembled bis(cholate) derivatives”

12h35  OC19 **Alessio Cataldo** (Université libre de Bruxelles)

   “Direct monitoring of transmembrane transport of fluoride via fluorometric method”

12h50  OC20 **Daniela Kalafatovic** (University of Rijeka)

   “Application of soft computing in peptide design”

13h05  Lunch break

16h00-19h00  **Social Event**

**Wednesday, September 8th, 2021**

*Chairman Prof Hennie Valkenier (Université libre de Bruxelles)*

09h00  PL4  **Prof Valérie Heitz** (Université de Strasbourg)

   “Porphyrin cages as allosteric receptors and bimetallic catalysts”

09h50  OC21 **Barbara Scholz** (Friedrich-Alexander-Universität Erlangen-Nürnberg FAU)
“Tetrabenzoporphyrin Tweezers for Supramolecular Interactions”

10h05 OC22 Sonia La Cognata (University of Pavia)

“Azacryptands as fillers in Mixed Matrix Membranes for Gas Separation”

10h20 OC23 Amy Edo-Osagie (Université de Strasbourg)

“Porphyrin-acridinium conjugates: Developing multi-responsive receptors”

10h35 IL5 Prof Kay Severin (Ecole Polytechnique Fédérale de Lausanne)

“Construction and Destruction of Coordination Cages”

11h05 Coffee break

Chairman Prof Ivan Huc (Ludwig Maximilians University)

11h20 IL6 Prof Ross S. Forgan (University of Glasgow)

“Tuning properties and functionality in the modulated self-assembly of metal-organic frameworks”

11h50 OC24 Simone I.S. Hendrikse (The University of Melbourne)

“Bioinspired preorganised peptide-nucleotide nanofibers”

12h05 OC25 Valentyna Slyusarchuk (Keele University)

“Fecht’s acid revisited: a rigid non-aromatic building block for metallosupramolecular chemistry”
12h20 OC26 Fatima Aparicio (Universidad Autónoma de Madrid)

“Water soluble nanotubular architectures from amphiphilic dinucleobases”

12h35 OC27 Giada Mannias (University of Cagliari)

“pH effect on the mechanochemical synthesis of an iron(III) trimesate Metal Organic Framework”

12h50 OC28 Abánades Lázaro (Universidad de Valencia)

“Defect engineering of Titanium MOFs for enhanced catalytical applications”

13h05 OC29 Deborah Romito (Cardiff University/University of Vienna)

“Chalcogen bonding as supramolecular tool for self-assembled layers in optoelectronic devices”

13h20 Lunch break

Chairman Prof David Magri

14h30 PL5 Prof Luisa DeCola (University of Milano)

“To be announced”

15h20 OC30 Ingrid Suzana (Sorbonne Université)

“Functional hetero-poly-metallic complexes”

15h35 OC31 Zoey Wanderman (University of Victoria)
“Diversity-oriented supramolecular host-guest chemistry targeting drugs and metabolites”

15h50  OC32 Jessica Groppi (University of Bologna)

“The evolution of light effected autonomous molecular pumps”

16h05  Coffee break

Chairman Dr Riccardo Montis (University of Urbino)

16h25  Best Poster Presentation

16h45  OC33 Tainah D. Marforio (University of Bologna)

“Exploiting supramolecular protein chemistry to design biocompatible host-carriers for carboranes in BNCT”

17h00  OC34 Allison Selinger (University of Victoria)

“Drugs that bind other drugs: template synthesis of bivalent reversal agents”

17h15  OC35 Giulia Moncelsi and Marta DaPian (Elsevier B.V.)


17h30  Closing Ceremony