Programme

Sunday, October 6th, 2024

14h30 Registration

16h00 Opening Ceremony

Wild Duck

Chair: **Silvia Marchesan**

16h20 PL1 **Silvia Vignolini (Max Plank for Colloids and Interfaces MPG, Potsdam DE)**

" Colours with a twist: bio-inspired self-assembled chiral architecture "

17h05 OC1 **Lucia Gemma Delogu**
"High-Dimensional Approaches for Immune Profiling of 2D Materials"

17h25 OC2 **David Gonzalez Rodriguez**
"Molecular and Supramolecular Chemistry within Confined Nanospaces"

17h45 OC3 **Sarah Pike**
"Solvent Controlled Self-Assembly of Lanthanide-Foldamer Metallosupramolecular Architectures"

18h05 OC4 **Ivan Aprahamian**
"A Molecular Anion Pump"

19h30 **Welcome Party**

Monday, October 7th, 2024

Parallel session 1

	Wild Duck Chair: **Silvia Giordani**	**Nautilus** Chair: **David Gonzalez Rodriguez**	**Astrea** Chair: **Veronica Dodero**
8h50	**OC5 Karin Schillen**	**OC12 Nelsi Zaccheroni**	**OC19 Alexey Cherevan**
9h10	**OC6 Sergio Moya**	**OC13 Attilio Vargiu**	**OC20 Bartosz Szyszko**
9h30	**OC7 Urszula Bazylińska**	**OC14 Paola Posocco**	**OC21 Jorge Beltramini**
9h50	**OC8 Luciano Galantini**	**OC15 Frank Biederman**	**OC22 Shi-Zhang Qiao**
10h10	**OC9 Luigi Gentile**	**OC16 Paula Ferreira**	**OC23 Takayoshi Nakamura**
10h30	**OC10 Helena Mateos**	**OC17 Feng Li**	**OC24 Samantha Bodman**
10h45	**OC11 Claudia Contini**	**OC18 Valentina Mameli**	**OC25 Daniel Iglesias**

11h00 **Coffee break**

Wild Duck

Chair: **Vito Lippolis**

11h30 **PL2 Debora Berti (University of Florence)**

"NanoBio Interfaces: Engineering Hybrid Systems through Controlled Interactions and Properties"

Parallel session 2

	Wild Duck Chair: **Lihi Adler-Abramovich**	**Nautilus** Chair: **Enzo Menna**	**Astrea** Chair: **Michele Cacioppo**
12h20	**OC26 Pol Besenius**	**OC29 Manuel Melle-Franco**	**OC32 Luigi Paduano**
12h40	**OC27 Yoichi Habata**	**OC30 Shintaro Ida**	**OC33 Jan J. Weigand**
13h00	**OC28 Ahu Gümrah Dumanli**	**OC31 Shinya Hayami**	**OC34 Buncha Pulpoka**

13h15 **Lunch**

Wild Duck

Chair: **Claudia Caltagirone**

14h30 PL3 **Silvia Giordani (Dublin City University)**

"Carbon nano-onions for targeted drug delivery"

Parallel session 3

	Wild Duck Chair: **Paula Ferreira**	**Nautilus** Chair: **Manuel Melle-Franco**	**Astrea** Chair: **Marco Paolantoni**
15h20	**OC35 Emmanuel Flahaut**	**OC37 Gili Bisker**	**OC39 Laura Fabris**
15h40	**OC36 Enzo Menna**	**OC38 Tell Tuttle**	**OC40 Barbara Rossi**

16h00 **Coffee break**

Parallel session 4

	Wild Duck Chair: **Antonella Accardo**	**Nautilus** Chair: **Luca Conti**	**Astrea** Chair: **Laura Fabris**
16h30	**OC41 Maritè Cardenas**	**OC45 Carmen Talotta**	**OC49 Gerardino D'Errico**
16h50	**OC42 Cecilia Menard-Moyon**	**OC46 Cristiano Zonta**	**OC50 Giovanni Maria Pavan**
17h10	**OC43 Luca Conti**	**OC47 Allegra Franchino**	**OC51 Volodymyr Sashuk**
17h25	**OC44 Andrea Pinto**	**OC48 Diego Venegas Yagizi**	**OC52 Claudia Pigliacelli**

Wild Duck

Chair: **Pol Besenius**

17h45 KN1 **Sophie Beeren (Technical University of Denmark)**

"Enzyme-mediated Dynamic Combinatorial Chemistry with Cyclodextrins"

18h30 **Poster Session at Wild Duck with *Wine and Cheese***

20h00 **Dinner**

Tuesday, October 8th, 2024

Parallel session 5

	Wild Duck Chair: **Eugenio Vazquez**	Nautilus Chair: **Cristiano Zonta**	Astrea Chair: **Mauro Mocerino**
8h50	**OC53 Guillame Vives**	**OC60 Artur Stefankiewicz**	**Jack Harrowfield's Birthday: Leonard Lindoy Welcoming**
9h10	**OC54 Miriam Mba**	**OC61 Larissa Von Krbek**	
9h30	**OC55 Lihi Adler-Abramovich**	**OC62 Riccardo Montis**	
9h50	**OC56 Beatriu Escuder**	**OC63 Valeria Amendola**	**OC67 Murray Baker**
10h10	**OC57 Antonella Accardo**	**OC64 Jonathan Nitschke**	**OC68 Alessandro Casnati**
10h30	**OC58 Ivan Sasselli-Ramos**	**OC65 Ana Maria Garcia**	**OC69 Keisuke Ohto**
10h45	**OC59 Greta Bergamaschi**	**OC66 Salvatore Marullo**	**OC70 Annie Powell**
			OC71 Mark Ogden
			Yang Kim Greetings
			Jack Harrowfield Acknowledgements

11h00 **Coffee Break**

Parallel session 6

	Wild Duck Chair: **Beatriu Escuder**	Nautilus Chair: **Barbara Rossi**	Astrea Chair: **Miriam Mba**
11h30	**OC72 Veronica Dodero**	**OC74 Marco Paolantoni**	**OC76 Martino Di Serio**
11h50	**OC73 Eugenio Vasquez**	**OC75 Emma Sparr**	**OC77 Chengzhong Yu**

Wild Duck

Chair: **Sergio Murgia**

12h15 PL4 **Raffaele Mezzenga (ETH Zürich)**

"Amyloid-metal Supramolecular Hybrids for Health and Environmental Remediation Technologies"

13h00 **Lunch**

Wild Duck

Chair: **Giacomo Picci**

14h30 PL5 **Steve Goldup (University of Birmingham)**

"Mechanically Chiral Molecules: Synthesis and Applications"

15h15 **Short Oral Presentations Session 1**

Flash1 **Mykola Kravetz**	Flash2 **Martina La Manna**	Flash 3 **Paul Debes**
Flash4 **Jingjing Qu**	Flash5 **Haridas Kar**	Flash6 **Maksym Dekhtiarenko**
Flash7 **Moritz Nau**	Flash8 **Ok-Sang Jung**	Flash9 **Besma Mellah**

16h15 **Coffee Break**

Parallel session 7

	Wild Duck Chair: **Luca Conti**	**Nautilus** Chair: **Ana Maria Garcia**	**Astrea** Chair: **Daniel Iglesias**
16h45	**OC78 Hennie Valkenier**	**OC81 Feng Shi**	**OC84 Thomas Webster**
17h05	**OC79 Alessandro Porchetta**	**OC82 Daniela Kalafatovic**	**OC85 Gerardo Palazzo**
17h25	**OC80 Jacopo Movilli**	**OC83 Petr Kovaricek**	**OC86 Jacek K. Wychowaniec**

Wild Duck

Chair: **Silvia Marchesan**

17h45 PL6 **Tanja Weil (Max-Planck-Institute for Polymer Research)**

"Bioresponsive Chemistry to Control Supramolecular Assembly in Living Systems"

20h00 **Traditional Dinner**

Wednesday, October 9th, 2024

Wild Duck

Chair: **Mauro Mocerino**

8h45 PL7 **Jack Harrowfield (University of Strasbourg)**

" Searching for Nothing: Molecules with Cavities"

9h30 **Short Oral Presentations Session 2**

Flash10 **Anton Muravev**	Flash11 **Lidon Pruñonosa Lara**	Flash12 **Subir Paul**
Flash13 **Nicoletta Rusta**	Flash14 **Gracjan Kurpik**	Flash15 **Ruby Morel**
Flash16 **Zohar Arnon**	Flash17 **James Cooper**	Flash18 **Caihong Lin**
Flash19 **Feng Shi**		

10:30 KN2 **Charalampos G. Pappas (University of Freiburg)**

"Phosphate-Driven Systems Chemistry"

11h00 **Coffee Break**

Parallel session 8

	Wild Duck Chair: **Jonathan Nitschke**	**Nautilus** Chair: **Jacek Wychowaniec**	**Astrea** Chair: **Diego Venegas-Yagizi**
11h30	**OC87 Michał J. Chmielewski**	**OC91 Mengjiao Cheng**	**OC95 Emanuele Orgiu**
11h50	**OC88 Jan Romanski**	**OC92 Thomas Solomek**	**OC96 Jin Zou**
12h10	**OC89 Rob Elmes**	**OC94 Teresa Gatti**	**OC97 Peter Comba**
12h30	**OC90 Luis Martinez-Crespo**	**OC94 Paolo Della Sala**	**OC98 Veronica Paredes**

12h55 **Awards and Closing Cerimony**

List of oral contributions

OC1 Lucia Gemma Delogu "High-Dimensional Approaches for Immune Profiling of 2D Materials"
OC2 David Gonzalez Rodriguez "Molecular and Supramolecular Chemistry within Confined Nanospaces"
OC3 Sarah Pike "Solvent Controlled Self-Assembly of Lanthanide-Foldamer Metallosupramolecular Architectures"
OC4 Ivan Aprahamian "A Molecular Anion Pump"

OC5 Karin Schillén *"Condensed supramolecular helices: The twisted sisters of DNA"*

OC6 Sergio Moya *"Self assembly and physico chemical properties of polyelectrolyte complexes with nucleic acids and anthocyanins"*

OC7 Urszula Bazylińska *"Hybrid colloidal nanoplatforms for enhanced photodynamic therapy and dual-targeted action in human melanoma"*

OC8 Luciano Galantini to be announced

OC9 Luigi Gentile *"Influence of Fatty Alcohols on Structural and Bulk Properties of Bio-Based Surfactants"*

OC10 Helena Mateos *"Accurate dual-marker detection on extracellular vesicles combining LFIA and LIBS"*

OC11 Claudia Contini *"Synthetic Cells: from Soft Matter to Cell-Like Behaviours"*

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OC26 Pol Besenius
"Supramolecular Design of Synthetic Vaccines and Injectable Biomaterials"

OC27 Yoichi Habata *"A Molecular Othello"*

OC12 Nelsi Zaccheroni
"Fluorogenic nanogels detect micro- and nanoplastics in water"

OC13 Attilio Vargiu *"Unravelling molecular drivers of peptides' self-assembly by atomistic simulations"*

OC14 Paolo Posocco *"Tiny titans: Exploring hybrid organic-inorganic nanoparticles through computational insights"*

OC15 Frank Biederman
"Supramolecular Sensing Applications in Biofluids"

OC16 Paula Ferreira *"Caffeic acid-modified reduced graphene oxide-based porous foams for water purification"*

OC17 Feng Li *"Metallo-supramolecular Materials: Cation Sensing, Optical and/or Magnetic Properties"*

OC18 Valentina Mameli *"Removal of As^{V}/As^{III} from aqueous solutions by nano iron oxi(hydroxi)des: pollutant uptake and changes in their magnetic properties"*

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OC29 Manuel Melle-Franco *"The Computational Microscope: a Versatile Tool to Understand and Design Nanomaterials"*

OC30 Shintaro Ida *"Preparation of Nanosheet-Stacked Proton-*

OC19 Alexey Cherevan *"Surface-anchored All-inorganic Molecular Clusters for Light-driven Water Splitting Reactions"*

OC20 Bartosz Szyszko
"Iminopyrrole-based self-assembly: a route to dynamic supramolecular architectures"

OC21 Jorge Beltramini
"Nanocomposite Materials: Enabling Innovations for Sustainable Hydrogen Production from Waste Biomass"

OC22 Shi-Zhang Qiao
"Electrocatalysis for CO_2 Reduction and Direct Seawater Splitting"

OC23 Takayoshi Nakamura
"Supramolecular Strategy to Multiferroics"

OC24 Samantha Bodman *"π-Conjugated Supramolecular Assemblies for Applications in Sensing and Organic Photovoltaics"*

OC25 Daniel Iglesias
"Supramolecular approaches for the functionalization of 2D materials for electronic applications"

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OC32 Luigi Paduano *"Hierarchical Nanoparticle Superlattices: Enhancing Optical Properties through Ordered Structures and Superlattice Substitution"*

OC33 Jan J. Weigand "*Enhancing Lithium Recovery: Integrating 4-*

Conducting Electrolyte for Fuel Cells"

Phosphoryl Pyrazolone Ligands for Sustainable Separation Processes"

OC28 Ahu Gümrah Dumanli *"Marangoni flow-driven vertical self-assembly of cellulose nanocrystals-tilted tactoids and folded domains"*

OC31 Shinya Hayami *"Graphene oxide as a super material"*

OC34 Buncha Pulpoka *"Porphyrin-Based Innovations: From Liquid Crystalline Materials to Advanced Optical Sensors for Thiol and Thiocyanate Detection"*

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OC35 Emmanuel Flahaut *"Modification of the surface chemistry of carbon nanomaterials as a Safer-by-design strategy to mitigate their potential impact on the environment"*

OC13 Gili Bisker *"Single-walled carbon nanotubes as fluorescent probes for supramolecular self-assembly complexes"*

OC39 Laura Fabris *"Tuning the Electric Field at Plasmonic Hot Spots through Morphology Modulation and Interface Engineering"*

OC36 Enzo Menna *"Functionalization of carbon nanostructures with organic moieties affords composite scaffolds for tissue engineering and regenerative medicine"*

OC38 Tell Tuttle *"An Active Machine Learning Discovery Platform for Pore-forming Peptides"*

OC40 Barbara Rossi *"Frontiers of UV Resonance Raman spectroscopy in supramolecular chemistry"*

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OC41 Maritè Cardenas *"Title Lipoprotein structure and function – Implications in atherosclerosis development and COVID19 disease"*

OC45 Carmen Talotta *"Supramolecular Chemistry and Catalysis Mediated by Hexameric Capsules"*

OC49 Gerardino D'Errico *"Molecular interactions of biosurfactants: At the roots of the complex self-aggregation, flow and functional behavior"*

OC42 Cecilia Menard-Moyon *"Self-Assembly of Aromatic Amino Acid Derivatives into Nanoparticles for Anticancer Therapy"*

OC46 Cristiano Zonta *"One-Step Dynamic Synthesis of Hydrolytically Stable Chiral Architectures"*

OC50 Giovanni Maria Pavan *"Intrinsic dynamics & emerging complexity in self-organizing molecular systems"*

OC43 Luca Conti *"Ruthenium polypyridyl complexes and their use into nanostructured formulations as light-responsive biomedical tools"*

OC47 Allegra Franchino *"Supramolecular chemistry at the service of homogeneous catalysis: Employing H-bond donors as metal–chloride bond activators"*

OC51 Volodymyr Sashuk *"Expanding the Horizons of Enzyme-Like Catalysis With Cucurbiturils"*

OC44 Andrea Pinto *"Supramolecular gold(I) assemblies as singlet oxygen sensitizers"*

OC48 Diego Venegas-Yagizi *"Mixed-Valence Hexavanadate presenting Geometrical Spin Frustration"*

OC52 Claudia Pigliacelli *"Templated Self-Assembly of Transient Branched Au Nanoshells"*

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OC53 Guillaume Vives *"Sequential and Time-Controlled Sol-Gel Transitions induced by the Mechanical Motion of Switchable Molecular Tweezers"*

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OC60 Artur Stefankiewicz *"Amino Acid Based Self-Assembled Nanostructures"*

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OC67 Murray Baker *"Porous PHEMA Hydrogels loaded with Nanoparticles of Coinage Metals"*

OC54 Miriam Mba
"[1]benzothieno[3,2-b][1]-benzothiophene (BTBT)-peptide hybrid supramolecular gels

"

OC55 Lihi Adler-Abramovich
"Bioinspired Materials for Biomedical Applications"

OC56 Beatriu Escuder
"Multicomponent supramolecular materials based on short peptides and pseudopeptides"

OC57 Antonella Accardo *"A ten-year-long journey into the world of peptide-based nanostructures and materials"*

OC58 Ivan Sasselli-Ramos
"Computational/Experimental Symbiosis in Short Peptide Self-assembly"

OC59 Greta Bergamaschi *"Peptide-based supramolecular hydrogels for 3D bioassays"*

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OC72 Veronica Dodero
"Oligomerization of proteolysis-resistant gluten peptides and gluten-related disorders"

OC73 Eugenio Vasquez *"Self-Assembled Coiled Coil Nanowires"*

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OC78 Hennie Valkenier
"Transmembrane transport of phosphates by synthetic receptors"

OC79 Alessandro Porchetta
"CRISPR-powered nucleic acid networks for sensing applications"

OC61 Larissa Von Krbek
"Switchable macrocycles and cages"

OC62 Riccardo Montis *"A Journey to discover the Extraordinary World of Fampridine Hydrochloride"*

OC63 Valeria Amendola
"Molecular hosts in gas separation applications"

OC64 Jonathan Nitschke
"Molecules in metal boxes"

OC65 Ana Maria Garcia
"Ultrashort peptide crystals as optical waveguiding materials"

OC66 Salvatore Marullo *"Covalent Organic Frameworks for pollutant removal from water"*

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OC74 Marco Paolantoni *"Amyloid aggregation in self-crowded conditions"*

OC75 Emma Sparr *"Tipping points in α-synuclein - lipid co-assembly: amyloid formation and membrane remodelling"*

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OC81 **Feng Shi** *"Macroscopic Supramolecular Assembly and Its Applications"*

OC82 Daniela Kalafatovic *"Pushing the boundaries of peptide discovery using machine learning-guided generative models"*

OC68 Alessandro Casnati
"Calixarenes: from metal ion complexation to ligands for proteins, viruses and bacteria

OC69 Keisuke Ohto To be announced

OC70 Annie Powell To be Announced

OC71 Mark Ogden *"Unreliable Recollections from the Harrowfield Laboratory @UWA"*

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OC76 Martino Di Serio
"Heterogenous catalysis for DPA/DPE synthesis"

OC77 Chengzhong Yu *"Rational Design of Nanostructured Framework Catalysts"*

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OC84 Thomas Webster *"Novel DNA-based Supramolecular Chemistries: Fighting Viruses, Growing Tissues and Everything in Between"*

OC85 Gerardo Palazzo
"Cooperative aggregation of gold nanoparticles on phospholipid vesicles is electrostatically driven"

OC80 Jacopo Movilli *"Encoding life-like multimodal locomotion in photo-responsive microstructures"*

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OC83 Petr Kovaricek *"Microvilli-mimicking nano-bio-platform for T-cell activation studies by fluorescence microscopy"*

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OC86 Jacek K. Wychowaniec *"Space ImmunoBioInks: Guiding Inflammatory Response of Macrophages by Self-Assembling Peptides Under Standard and Simulated Micro-Gravity"*

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OC87 Michał J. Chmielewski *"Synthetic anionophores as transmembrane drug transporters: studies in liposomes and bacteria"*

OC88 Jan Romanski *"Utilizing squaramides for the design of ion pair receptors, sensors, and functional materials"*

OC89 Rob Elmes *"Squaramides: From Receptors to Antimicrobials"*

OC90 Luis Martinez-Crespo *"Regulated transfer of chemical information using stimuli responsive squaramides"*

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OC91 Mengjiao Cheng *"Precise Supramolecular Self-Assembly of µm-to-mm Components for Advanced Manufacture"*

OC92 Thomas Solomek *"Topography and Topology: Unusual Playground for Chromophores"*

OC93 Teresa Gatti *"Exploring the flatland of bi-dimensional materials through chemical functionalization for energy and (opto)electronics"*

OC94 Paolo Della Sala *"Prismarenes: Novel Macrocyclic Hosts with Planar Chirality"*

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OC95 Emanuele Orgiu *"Tuning Charge and Magnetotransport in Quantum Materials by Means of Supramolecular Lattices"*

OC96 Jin Zou *"Understanding the Structural Characteristics of Metal Chalcogenides using Advanced Electron Microscopy"*

OC97 Peter Comba *"Pathways of bispidine-iron(IV)-oxido and -iron(III)-peroxido oxidants"*

OC98 Veronica Paredes *"Chiral copper coordination polymers. Magnetic properties and electronic structure"*

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List of flash oral contributions

Flash1 Mykola Kravetz *"Attaining the Complete OFF State in Photoswitchable Catalysis***"**

Flash 3 Paul Debes *"Understanding Structure-to-Property Relationships in Photo Switchable Carbon Nanodot-Azobenzene Covalent Hybrids"*

Flash5 Haridas Kar *"Local Self-Assembly of Dissipative Structures Sustained by Substrate Diffusion*

Flash2 Martina La Manna *"Multicomponent hydrogel based on RGD-mimetic LMWGs as biocompatible material for biological applications"*

Flash4 Jingjing Qu *"Lysozyme as an innovative endosomal escape agent helps promote cellular immune response for oral administration"*

Flash6 Maksym Dekhtiarenko *"Out of equilibrium switching of molecular tweezers by a chemical fuel"*

Flash7 Moritz Nau *"Conformationally Regulated Molecular Conductance Switching in Bis(Triarylamines) Nanojunctions"*

Flash8 Ok-Sang Jung *"Construction and Chiral Recognition of Pairs of Chiral Coordination Cages"*

Flash9 Besma Mellah *"Eco-friendly Approach to Wastewater Dephosphorization using Recovered Diatomaceous Earth from Brewer Waste"*

Flash10 Anton Muravev *"Data-driven and theory-driven modelling of molecular self-assembly*

Flash11 Lidon Pruñonosa Lara *"Photoswitchable Metallo-Supramolecular Architectures"*

Flash12 Subir Paul "*Complex Pathways Drive Pluripotent Fmoc-Leucine Self-assemblies"*

Flash13 Nicoletta Rusta *"Nanostructured CeO_2-Based Systems for the Direct Synthesis of Dimethyl Carbonate from CO_2"*

Flash14 Gracjan Kurpik *"Multi-stimuli-responsive bio-inspired network of reactions under heteronuclear Pd^{II}/Pt^{II} cooperative catalysis"*

Flash15 Ruby Morel *"Ordered Porous Liquids"*

Flash16 Zohar Arnon *"Controlling Macroscale Morphology in DNA-based Assembly Using Acoustic Energy"*

Flash17 James Cooper *"Conformational Dynamics of Membrane-bound Molecular Machines*

Flash18 Caihong Lin *"Deuterated water as solvent enhances multivalent assembly to accelerate phase separation""*