



Monday 13th July 2026
Congress theme:
Molecular Design & Reactivity

Session	Timing	Presenter	Title	Topic ID
MDR - D1 - 001	10:00-10:15	Dr. Stanislav Petrovskii	Thiophene functionalized hexavanadate hybrids: modular synthesis and studies of their adsorption on Au(111) surfaces and gold nanoparticles	Nanomater
MDR - D1 - 002	10:15-10:30	Mr. Kilian Declerck	Ligand Exchange in Zr/Hf-Oxo Clusters: Mechanistic Insights and Implications for Catalysis	Nanomater
MDR - D1 - 003	10:30-10:45	Dr. Aleksandra Masulovic	Changed pathways in bent-core design: Pyridine scaffolds for next-generation soft materials	Nanomater
MDR - D1 - 004	10:45-11:00	Ms. Paula Novella-Rodriguez	Structure-dependent Antimicrobial Activity of Polyoxometalate-Polypeptide Hybrid Materials	Nanomater
MDR - D1 - 005	11:00-11:15	Dr. Cuijian Liu	Polyoxometalate-based Metal-Organic Assemblies Towards Supramolecular Catalysis and Functional Materials	Nanomater
MDR - D1 - 006	11:15-11:30	Dr. Pierre Picchetti	Designing Nature-Inspired Multifunctional Nanomaterials through Silsesquioxane Chemistry	Nanomater
MDR - D1 - 007	11:30-11:45	Prof. Luisa do Vale	Stimuli-responsive amino acid-based surfactants as nanovectors for biomedical applications	Nanomater
MDR - D1 - 008	11:45-12:00	Dr. Paula Mayorga Burrezo	From Molecular Radicals to Water-Compatible Organic Nanoparticles: Unlocking Enhanced (Chiro)Optical Properties of Halogenated Trityl Derivatives for Biomedical Applications	Nanomater

Session	Timing	Presenter	Title	Topic ID
POSTER FLASH 12:00				
MDR - D1 - F01		Martin Gill	Green(er) synthesis of MLCT-emissive ruthenium(II) polypyridyl complexes	
MDR - D1 - F02		Luiz Carlos Silva-Filho	Anthrazoline derivatives as photoinitiators for photopolymerization reactions: studies about the synthesis and application.	
MDR - D1 - F03		Tristan Mairath	Design of chiral ligands based on the reaction of α -functionalized lithium alkyls with iminium salts	
MDR - D1 - F04		Alvaro Lopez-Acosta	Precise Control on Out-of-Equilibrium Supramolecular Self-Assembly in Fibre Formation and Hydrogels	
MDR - D1 - F05		Miriam Gulman	Molecular design of peptidic ligands for cortactin-SH3	
MDR - D1 - F06		Oleksandr Lishchuk	Synthesis and application of alkylstannatranes: Versatile precursors for C(sp3)-C(sp2) cross-coupling	
MDR - D1 - F07		Mina Bathen	Synthesis of n-3 Polyunsaturated Docosahexaenoic Acid-Like Methoxylated Ether Lipid	
MDR - D1 - F08		Paula Miquel Fosco	cis,trans-[Ru(bppq)2]2+ derivatives for the switch on phosphorescent for the detection of i-Motif DNA	

Lunch

Session	Timing	Presenter	Title	Topic ID
MDR - D1 - I1 14:00-14:30 Eva Rentschler Chiral Metallocrown Complexes				
MDR - D1 - O09	14:30-14:45	Mr. Brecht Koek	Moiré superlattices from bilayers of synthetic 2D polymers: on-surface synthesis and defects	CompChem
MDR - D1 - O10	14:45-15:00	Dr. Cataldo Valentini	Tailored 2D covalent organic frameworks with ambipolar repeating units as cathode material for aluminum energy storage device	CompChem
MDR - D1 - O11	15:00-15:15	MSc. Louis Van Nyvel	Effect of size, charge, and spin state on Hückel and Baird aromaticity in [N]annulenes	CompChem
MDR - D1 - O12	15:15-15:30	Ass. Prof. Dennis Svatoněk	Reactivity Models for Tetrazine-Based Bioorthogonal Aromaticity	CompChem
MDR - D1 - O13	15:30-15:45	Dr. Felix Plasser	Molecular design beyond the frontier molecular orbital picture	CompChem
MDR - D1 - O14	15:45-16:00	Dr. Christoph Plett	SURFF: A New Simple, Universal and Robust Force Field for Large-Scale Molecular Modeling in ORCA	CompChem

Coffee break

MDR - D1 - O15	16:30-16:45	Dr. Maria Voccia	A Plausible Model for Tightly Bound Single Metal Atoms on Carbon Nitride for Computational Studies on Single Atom Catalysis	CompChem
MDR - D1 - O16	16:45-17:00	Leha Dmytro	Difluoromethoxy Group as a New MedChem Handle	
MDR - D1 - O17	17:00-17:15	td		
MDR - D1 - O18	17:15-17:30	Dr. Charlie McTernan	Direct Active Template Synthesis of Cyclic Peptide Catenanes	OrgSyn/MedChem
MDR - D1 - O19	17:30-17:45	Dr. Joachim Demaerel	Fluorothiazynes as SuFEx Amphiphiles: Interconversion to Aminosulfurdiimidoyl Fluorides	OrgSyn/MedChem
MDR - D1 - O20	17:45-18:00	Prof. Michael Meanwell	Synthetic Strategies for Building and Editing Nucleoside Analogues	OrgSyn/MedChem

Posters

MDR - D1 - P01		Rinaldo Poli	How do acrylate radicals terminate? New evidence to settle a never-ending debate	
MDR - D1 - P02		Josefine Brindöpke	Verification, Falsification and Revision of the Constitution and Configuration of Daucane Sesquiterpenoids Based on Total Synthesis and X-ray Crystallography	
MDR - D1 - P03		Ding-Yah Yang	Synthesis of quinoline and pyranocoumarin/chromane-fused Heterocycles and their potential functional properties	
MDR - D1 - P04		Francisco Garcia Cirujano	Green ionic metal-organic frameworks as nanocatalysts for CO2 fixation	
MDR - D1 - P05		Mara Schöler	Why can we deprotonate methylsiloxanes with the combination of t-BuLi and TMEDA?	
MDR - D1 - P06		Guillermo Gallardo Vásquez	Synthesis and Characterization of The Silver (I) Tranexamate Complex With Potential Antibacterial Activity	
MDR - D1 - P07		Arthit Makarasen	2,4-Disubstituted 1,6- and 1,7-Naphthyridines as Potent HIV-1 Reverse Transcriptase Inhibitors with Dual Antiviral and Anticancer Potential	
MDR - D1 - P08		Felix Friedt	Development of synthetic methods for terpyridine-based solid molecular catalysts	
MDR - D1 - P09		Mariachiara Trapani	A supramolecular approach for the synthesis of cyclodextrins- gold nanoparticles hybrid nanoassembly as delivery system of 5-fluorouracil/heme oxygenase 1 (5-FU/HO-1) inhibitor hybrids	
MDR - D1 - P10		Rita Skoda-Földes	Coordination chemistry of a ferrocenyl terpyridine-like ligand: electrochemical sensing of metal ions	
MDR - D1 - P11		Oleksandr Lishchuk	Synthesis and physicochemical assessment of cis-Rf substituted cyclobutane derivatives	
MDR - D1 - P12		Yong Rok Lee	Rh(II)-Catalyzed [3+2] Annulation via C(sp2)-H Activation for the Synthesis of Pyrimidinyl-Embedded Pyrrolo[3,4-b]indoleones	
MDR - D1 - P13		Tomasz Pospieszny	Steroid-pyrimidine hybrids containing 1,2,3-triazole rings as a source of potential bioactive compounds	
MDR - D1 - P14		Tomasz Pospieszny	Application of "click" chemistry in the preparation of steroid bioconjugates with therapeutic potential	
MDR - D1 - P15		Lina Filla	OLED Material by Late-stage Functionalization of Hexa-peri-benzocoronene-fluoranthene Hybrid Directed by Dynamic Inversion of Helicity	
MDR - D1 - P16		Yuming Chen	Enhancing organic electrochemical transistor performance through synthesis of polythiophene with carbonyl ester-bridge ethylene glycol side chains and investigating extended conjugation effects	
MDR - D1 - P17		Anamaria Hanganu	Synthesis and hosting ability of dynamic N-acylhydrazone-based macrocycles	
MDR - D1 - P18		George Costache	Multistate photoswitches containing arylazopyrazole and N-acylhydrazones units	
MDR - D1 - P19		Giulia Marcolli	Innovative hydrophilic ligands for the selective recovery of Am(III) from spent nuclear fuel	
MDR - D1 - P20		Martin Blavier	Single-Molecule Force Spectroscopy of a Trefoil Knot Gated by a Diels-Alder Mechanophore	
MDR - D1 - P21		Clara Schmitt	A Diastereoselective Synthesis of small α,ω -Calix[4]pyrrole Building Blocks	
MDR - D1 - P22		Janos Wasternack	A Scalable and Resource-Saving Synthesis of Dipyrromethanes and Tetrapyrroles - Minimal Polymer Formation and Facile Purification	
MDR - D1 - P23		Joseph Wallen	Stereoselective synthesis of 9,10 and 12,13 EpOME's	
MDR - D1 - P24		Sourav Kumar	Synthesis of Diverse Allylic Sulfone Derivatives via Sequential Hydroxylation of 1,3-Enynes	
MDR - D1 - P25		Bohdan Vashchenko	Bicyclic 1,4-Dioxepanes - Novel Advanced Building Blocks for Drug Discovery	
MDR - D1 - P26		Bohdan Vashchenko	Stability of Heteroaromatic Sulfonyl Chlorides and Fluorides	
MDR - D1 - P27		Leticia D. Costa	Novel 2-pyridyl functionalized thiazolo[5,4-c]isoquinolines as selective chemosensors for metal cations	



Antwerp, Belgium

10th EuChemS Chemistry Congress

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Tuesday 14th July 2026
Congress theme:
Molecular Design & Reactivity

Session	Timing	Presenter	Title	Topic ID
MDR - D2 - O01	10:00-10:15	Mr. Ashwini Mishra	Waste reduction and utilisation in alkyl halide synthesis: Development of "low waste" catalytic synthetic methodology	OrgSyn/MedChem
MDR - D2 - O02	10:15-10:30	MSC. Frank de Kleijne	Anchimeric assistance of acyl neighboring groups as stereodirecting strategy in synthesis: What can we learn from glycoscience?	OrgSyn/MedChem
MDR - D2 - O03	10:30-10:45	Mr. Panagiotis Kalomenopoulos	Enantioselective synthesis of α -aryl propionyls via a cobalt-catalysed cationic semipinacol rearrangement	OrgSyn/MedChem
MDR - D2 - O04	10:45-11:00	Mr. Kaan Karaca	Sustainable N-Arylation of Imidazoles Enabled by Copper Single-Atom Catalysts	OrgSyn/MedChem
MDR - D2 - O05	11:00-11:15	Dr. Cristiana Margarita	Electrochemical desulfurative borylation of thiols, disulfides, thioethers and thioacetals	OrgSyn/MedChem
MDR - D2 - O06	11:15-11:30	Prof. Ching-Wen Chiu	Catalytic Applications of Di-Substituted Boron and Aluminum Cations	OrgSyn/MedChem
MDR - D2 - O07	11:30-11:45	Maurizio Benaglia	Telescoped synthesis of chiral APIs: in flow electrochemical and photoredox catalytic reactions	OrgSyn/MedChem
MDR - D2 - O08	11:45-12:00	Prof. Serhiy Ryabukhin	Serendipity Results as a Driving Force for Novel Reaction Development	OrgSyn/MedChem

POSTER FLASH 12:00				
MDR - D2 - F01		Giulia Marcolli	Synthesis of bispidine-based fluorinated chemosensors for selective analytes recognition	
MDR - D2 - F02		Shilpa Palit	Highly-Efficient Thioether Synthesis via C-S Coupling with a Copper Single-Atom Catalyst	
MDR - D2 - F03		Paul Sergent	Toward greener synthetic routes for controlling titanium reactivity in solution	
MDR - D2 - F04		Navathej Preetha Genesh	The Two-Dimensional Locksmith: Ligand-Driven Structural Changes in Self-Assembled Supramolecular Networks of Bisporphyrin Cages at the Solid-Liquid Interface	
MDR - D2 - F05		Vincent Nilsson	Boracycle-mediated aromatic C-H ortho-methylation using methanol as a methylating reagent	
MDR - D2 - F06		Yihan Yu	Biomimetic Synthesis Towards (\pm)-Hypoxisozazole A Under Biogenic Conditions	
MDR - D2 - F07		Bárbara Sampaio	Innovative scaffolds based on 4-hydroxyproline as chemical permeation enhancers, for transdermal drug delivery	
MDR - D2 - F08		Maryam Butt	Synthesis of Fluorinated Partially Saturated Bicyclic Drug Scaffolds	

Lunch

MDR - D2 - I1 14:00-14:30 Sebastian Riedl From Laboratory Curiosities to Industrial Applications: the World of Halogens				
MDR - D2 - O09	14:30-14:45	Dr. Olexandr Pashenko	Sustainable Cubane Supply Unlocks Cuneanes as Common Tools for Medicinal Chemistry	OrgSyn/MedChem
MDR - D2 - O10	14:45-15:00	Dr. Dmytro Leha	Turning a Bottleneck into a Tool: Rawal's Diene Case	OrgSyn/MedChem
MDR - D2 - O11	15:00-15:15	Mr. Paul Nolan	Highly Stereoselective Synthesis of Bioisosteric Fluorinated 3-azabicyclo[3.1.0]hexane Scaffolds via Asymmetric Cu Catalysed (3+2) Cycloadditions	OrgSyn/MedChem
MDR - D2 - O12	15:15-15:30	Mr. Khaleel Zareen	Expanding Drug-Relevant Chemical Space Through Pt-Au Bimetallic Catalysis	OrgSyn/MedChem
MDR - D2 - O13	15:30-15:45	Prof. Fabio Bellina	Metal-free direct C-H arylation of imidazoles enabled by in situ diazotization in water	OrgSyn/MedChem
MDR - D2 - O14	15:45-16:00	Mrs. Agathe Fayolle	Diastereoselective Access to α -Hydroxy-Lactams Through Carbene-Carbonyl Cyclization	OrgSyn/MedChem

Coffee break

MDR - D2 - O15	16:30-16:45	PhD student Laura Thirion	Rh(III)-Catalyzed Room-Temperature Heterobiaryl Synthesis: Elucidating the Complementary Roles of Cp-Ligand Design and Ag(I) Salts	OrgSyn/MedChem
MDR - D2 - O16	16:45-17:00	Dr. Maria Koyioni	Synthesis of cathin-4-ones and related molecules	OrgSyn/MedChem
MDR - D2 - O17	17:00-17:15	Prof. Henrik Sundén	Selective Boron-Based Ortho-Directed Functionalization Strategies of Aromatic Substances	OrgSyn/MedChem
MDR - D2 - O18	17:15-17:30	Mary Hernal	Enantioselective Radical Synthesis of β -Lactams via Co(II)-Based Metalloradical Catalysis Enabled by Ligand Innovation	OrgSyn/MedChem
MDR - D2 - O19	17:30-17:45	Gibrael Fadel	A Metal-Free Iminium-Driven Synthesis of Amines from Alkenes	OrgSyn/MedChem
MDR - D2 - O20	17:45-18:00	Dr. Jake Greenfield	Using Photoswitchable Imines to Drive (dark)Transimination Reactions Uphill	OrgSyn/MedChem

Posters

MDR - D2 - P01		Safiyah Ghumran	Isoniazid-rhodanine molecular hybrids: design, synthesis, antimycobacterial activity and computational validation	
MDR - D2 - P02		Lee Chieng	Development of Continuous Flow Photocatalytic Decarboxylative Cross-Coupling Reactions of Bargellini Acids	
MDR - D2 - P03		Dylan Manuru	Exploiting Flow Technology for the Sustainable Synthesis of Industrially Relevant Building Blocks.	
MDR - D2 - P04		Mymoena Davids	Sustainable Mechanochemical Routes to Benzothiazole Based Synthetic Intermediates	
MDR - D2 - P05		Blessing Taimi	Comparing Oxime Ligation and Native Chemical Ligation for Autocatalytic Peptide Amphiphile Formation	
MDR - D2 - P06		Yi-Chou Tsai	Extending [2+2] and [2+2+1] Cyclizations to Mo-Mo and W-W Multiv Bonded Complexes	
MDR - D2 - P07		Zhaozheng Yang	Expression, Selection, and Control in Dynamic Covalent Libraries of Macrocycles and Cages	
MDR - D2 - P08		Tilman Köhler	[2,2]-to-[3,2] Skeletal editing of the paracyclophane core via controlled phenonium ion formation	
MDR - D2 - P09		Eliška Wojačzyńska	Synthesis of Amino-Functionalized Ferrioxamine E Biomimetics - Toward Modular Trihydroxamate Macrocycles for Late-Stage Diversification	
MDR - D2 - P10		Mohammad Usman	Catalytic ammonia oxidation mediated by high-spin Fe(II) complex: combined experimental and DFT study	
MDR - D2 - P11		Bozidar Radusin	Visible-Light-Responsive Polyoxometalates as Artificial Photoproteases for Catalytic Protein Backbone Cleavage	
MDR - D2 - P12		Gertrude Eleonore Dijobie Tchienou	Optimization of Chemical Transesterification of Methyl Stearate with Sucrose using Response Surface Methodology	
MDR - D2 - P13		Xinyu Mu	Ketazine-linked covalent organic frameworks: a new linkage platform for crystalline π -conjugated porous materials	
MDR - D2 - P14		Javed Pathan	Topochemical Polymerization as a Pathway to Structurally Precise 2D organic Polymers	
MDR - D2 - P15		Silje Iren Strøm	Fluorine-Free Nitrene Insertion for Covalent Functionalization of Cross-Country Skis	
MDR - D2 - P16		Diana-Ioana Eftemie	New heterometallic 4f-4f' complexes - an original synthetic approach	
MDR - D2 - P17		Daniel Griess	Functionalized Hydrosilanes: Pathways to Silicon-Based Semiconductors	
MDR - D2 - P18		Robert Botea	Lanthanide and transition metal complexes derived from polydentate Schiff bases	
MDR - D2 - P19		Valentin-Laurentiu Virgil	Design of optically-active coordination compounds using various ligands showing different types of chirality	
MDR - D2 - P20		Daniela Silva Dos Santos	Redirecting a synthetic dead-end to an antimalarial compound with enhanced activity	
MDR - D2 - P21		Lukas Dvorak	Design of hetero-functionalized triarylamine-based scaffolds as open-shell electrophotocatalysts	
MDR - D2 - P22		Ana R. Reis	Metal-Catalysed Assembly of N-heterocycles via [2+2+2] Cyclisation	
MDR - D2 - P23		Olexandr Pashenko	Preparative-Scale Synthesis of Heteroatom-Doped Adamantanes and Their MedChem Evaluation	
MDR - D2 - P24		Hyungwoo Kim	End-Group Positioning Enables Selective Demicellization in Self-Immolative Poly(benzyl ether) Micelles	
MDR - D2 - P25		Mees Hendriks	Studies towards applying a palladium-catalysed arylation-acylation domino reaction for a new total synthesis of kinamycin F	
MDR - D2 - P26		Mihai Răducă	Nitronyl nitroxide di- and triradical ligands obtained via Schiff condensation and their complexes	
MDR - D2 - P27		Stefan Dimitriu	Synthesis and magnetic properties of a family of dinuclear lanthanide complexes derived from 2-(phtalimidomethyl)-nitronyl-nitroxide	



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Wednesday 15th July 2026
Congress theme:
Molecular Design & Reactivity

Session	Timing	Presenter	Title	Topic ID
MDR - D3 - O01	10:00-10:15	Mr. Jack Wright	Synthesis and application of large, water-soluble [FeL4L6] tetrahedra	OrganoMet/CoordChem
MDR - D3 - O02	10:15-10:30	Dr. Florian Mulks	Stabilising Divalent Carbocations Through Donor-Coordination	OrganoMet/CoordChem
MDR - D3 - O03	10:30-10:45	Dr. Menemena Wang	Effect of Aromatic Substitution on Spin Crossover in [Fe(H2Bpz2)2(bioV-R)] Iron(III) Complexes	OrganoMet/CoordChem
MDR - D3 - O04	10:45-11:00	Dr. Richard Rök-Ohlenroth	Functionality Fine-Tuning in 1,2,3-Triazole-Based Coordination Frameworks	OrganoMet/CoordChem
MDR - D3 - O05	11:00-11:15	Prof. Dr. Andrea Biffis	Enhancing diversity in organometallic, atomically precise gold clusters	OrganoMet/CoordChem
MDR - D3 - O06	11:15-11:30	Dr. Max Bois	Empowering Cheap Transition Metals for Catalysis by Tuneable Coordination in Zeolites	OrganoMet/CoordChem
MDR - D3 - O07	11:30-11:45	Dr. Valérie Marvaud	Maanetic dendrimers: tackling the challenge of synthesis and characterization	OrganoMet/CoordChem
MDR - D3 - O08	11:45-12:00	Prof. Dr. Hsueh-Ju Liu	Reactivity studies of a main-group lead hydride and a bimetallic di-iron dihydride complex	OrganoMet/CoordChem
POSTER FLASH 12:00				
MDR - D3 - F01		Dmytro Volochnyuk	Needs Determine the Way: the Place of SF4 in Modern Synthetic Chemistry	
MDR - D3 - F02		Silvia Cammarone Bruno Botta	Rational design and synthesis of anthraquinone-based SMO inhibitors for the treatment of hedgehog-dependent tumors	
MDR - D3 - F03		Maria Kosaka	Mechanism elucidation of paddle-wheel di-Ru complex catalyzed amination reaction via multireference theory	
MDR - D3 - F04		Thomas Rigotti	Enantioselective catalytic strategies for the synthesis of bicyclo[2.1.1]hexanes as phenyl bioisosteres	
MDR - D3 - F05		Imola Sziavarto	The Fine-tuning Effect of Heterochiral β 3-sequences on Structural Motif Associations	
MDR - D3 - F06		Hunhee Han	Ionic-Group Densification of Perfluorinated High-Oxygen-Permeability Ionomers	
MDR - D3 - F07		Priyanka Rani Panda	Strapped Calix[4]pyrroles for the Transmembrane Transport of Anions	
Lunch				
MDR - D3 - I1	14:00-14:30	Dr. Narcis Avarvari	Chirality related properties in molecular materials	
MDR - D3 - O09	14:30-14:45	Prof. Steven Nolan	The [(NHC)Czbz] Architecture (M= Au and Cu; Cbz = carbazolyl): Advances in EnT photocatalysis	OrganoMet/CoordChem
MDR - D3 - O10	14:45-15:00	Mrs. Mélaïne Wang	Design of Isoindole-based N-Heterocyclic Ligands for Bioactive Bimetallic Complexes	OrganoMet/CoordChem
MDR - D3 - O11	15:00-15:15	Mr. Kobe Peeters	Enantioselective interactions on chiral nanopatterned surfaces	OrganoMet/CoordChem
MDR - D3 - O12	15:15-15:30	Dr. Alessio Nicolini	Chiral Metal-Organic Frameworks (MOFs) enhance Oxygen Evolution Reaction through CISS effect	OrganoMet/CoordChem
MDR - D3 - O13	15:30-15:45	MSc. Paul Erik Schneider	Selective T ⁺ -lithiation of planar-chiral ferrocenes enabled by switchable coordination: the effect of a methoxy-silyl group	OrganoMet/CoordChem
MDR - D3 - O14	15:45-16:00	Sven Lempereur	Excited-State Dynamics of Iridium(III) Photosensitizers Bearing pH Sensitive Strong Electron Donating Bipyridine Ligand Functionalized with N-Heterocyclic Imine and Olefin	OrganoMet/CoordChem
Coffee break				
MDR - D3 - O15	16:30-16:45	Dr. Davide Blasi	Polyhalogenated Thiele hydrocarbons as promising stimuli-responsive molecular materials	LuminescentMat
MDR - D3 - O15	16:45-17:00	Dr. Augustin Madalan	Luminescent complexes with imino/amino podands containing extended pi systems	LuminescentMat
MDR - D3 - O16	17:00-17:15	Prof. Jye-Shane Yang	Thermo-/Photo-responsive fluorescence and mechanical properties of dynamic organic crystals	LuminescentMat
MDR - D3 - O17	17:15-17:30	Andrea Fermi	Luminescent polysulfurated benzenes: a versatile platform for RTP and TADF materials	LuminescentMat
MDR - D3 - O18	17:30-17:45	Mr. Isaac Fuentes	FROG Dyes: A New Class of Anionic Near Infrared Fluorophores	LuminescentMat
MDR - D3 - O19	17:45-18:00	MSc. Maria Vittoria Balli	Electrochemiluminescence of a unimolecular ruthenium(II)-labelled cucurbit[7]uril: From mechanistic insights to applications	LuminescentMat
Posters				
MDR - D3 - P01		Cristian Andrei Spinu	Nitronyl nitroxide stable radicals derived from nitro- α -vanillin and bisphenol A as ligands towards 3d and 4f metal ions	
MDR - D3 - P02		Pia Gartgruber	Synthesis of steroidal and non-steroidal phase I and II metabolites relevant for Doping Analysis	
MDR - D3 - P03		Daniel Corcorran	Interrupted thermal rearrangement to access cyclobutanones via photochemistry and continuous flow chemistry	
MDR - D3 - P04		Nikola Savić	Novel 4,5-Diphenyl-1,2,3-Triazole-based Kuratowski Complexes with Chiral Active Sites	
MDR - D3 - P05		Nick Kocem	Regio- and Stereoselective Formation of 1,3-Diols	
MDR - D3 - P06		Martin Hutereau	Identifying promising low-fluorine weakly coordinating anions for lithium-ion batteries via high-throughput screening	
MDR - D3 - P07		Catalina Oroyo Orozco	In Silico Studies and Synthesis of Amino Acid-Derived N,N-Dialkylurea and Thiourea Compounds with Potential Antiretroviral Activity against HIV	
MDR - D3 - P08		Karim Ullah	Perfluorooxosulfate Salts as SOF4-Gas-Free Precursors to Multidimensional SuFEx Electrophiles	
MDR - D3 - P09		Luiz Carlos Silva-Filho	Expanding Visible-Light Photopolymerization: Azapentalene Derivatives for Methacrylate and Biobased Acrylic Systems	
MDR - D3 - P10		Annika Plato	Stereocovergent approach to the enantioselective construction of α -quaternary alcohols by radical epoxide allylation	
MDR - D3 - P11		Manish Rana	Design and synthesis of N-formyl/carbothioamide based pyrazoline analogs using Pd(PPh3) ₄ catalyst: Cytotoxicity, apoptosis, and molecular dynamics studies	
MDR - D3 - P12		Andrea Di Pede	Triplex DNA clamp regulates Cas12a activation for ssDNA and RNA sensing	
MDR - D3 - P13		Maria Voccia	A First Principle Study of a Model Bimolecular Nucleophilic Substitution Reaction Promoted by Catalysts Supported on Oxidized Carbon Black	
MDR - D3 - P14		Niels Michaelis	Investigation of a low-valent molybdenum complex towards reductive N ₂ -activation	
MDR - D3 - P15		Simona Amoroso	Design and Synthesis of Photo-responsive Amphiphiles as Tools for Controlling Membrane Permeability	
MDR - D3 - P16		Anna-Marlene Vogt	Investigation of mononuclear molybdenum and tungsten complexes with pentaphosphine environment for activation of dinitrogen and catalytic ammonia synthesis	
MDR - D3 - P17		Aleksandar Pashev	Angular substituted dibenz[a,g]quinolizidines – synthesis and DPP-IV inhibitory activity	
MDR - D3 - P18		Teodora Aleksandrova	Novel heterocyclic derivatives based on the [1,4]thiazino[3,4-a]isoquinoline ring system – molecular design, synthesis and DPP-IV inhibitory activity	
MDR - D3 - P19		Hye-Won Kim	Synthesis and characterization of photo-responsive linkers and metal-organic nanocarriers for sustained drug release	
MDR - D3 - P20		Abdelhaq Cherradi	Naphthalene diimide-based electron transport layer for perovskite solar cells	
MDR - D3 - P21		Julian Andres Enciso Vargas	Phosphine CN-Palladacycles Catalyzed Regioselective Alkoxy-carbonylation of Styrenes	

MDR - D3 - P22

Omolara Adeboye

Molecular Docking and Pharmacological Evaluation of Syzygium cordatum as a Potential Therapeutic Agent for Asthma
Molecular Docking and Pharmacological Evaluation of Syzygium cordatum as a Potential Therapeutic Agent for Asthma
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Asthma is a chronic inflammatory disorder of airways that continues to pose significant global public health challenges, particularly in low-resource settings. Conventional therapies are often expensive, associated with adverse side effects, or fail to address the multifaceted nature of asthma, including oxidative stress, bronchial inflammation, and immune dysregulation. This study investigates the phytochemical composition and anti-asthmatic potential of Syzygium cordatum, a medicinal plant traditionally employed in African ethnomedicine for managing respiratory ailments. Twenty-nine bioactive compounds derived from *S. cordatum* were evaluated through molecular docking simulations against an asthma-associated protein (PDB ID: 8OV0), using Salmeterol, Budesonide, and Ipratropium as standard reference drugs. Ligands were prepared and optimized using Density Functional Theory (DFT) in spatan software, and docking analyses were performed with AutoDock Vina integrated with PyRx. Several phytochemicals including Epifriedelanol -7.6, Friedelin -7.4, Arjunolic acid -7.0, and Betulinic acid -6.9 demonstrated strong binding affinities and favorable inhibition constants, indicating potential bronchodilatory and anti-inflammatory effects competing well with salmeterol -5.2, budesonide -6.7, and ipratropium -5.4. These compounds exhibited key interactions involving hydrogen bonding and hydrophobic contacts with critical amino acid residues of the target protein. The multi-targeted pharmacological profile of *S. cordatum* encompassing antioxidant, anti-inflammatory, and bronchodilatory activities underscores its potential as a complementary therapeutic candidate for asthma inhibitor. This study provides a robust scientific basis for further pharmacological development and prospective clinical validation of *S. cordatum* based formulation. Keywords: Asthma; Syzygium cordatum; Molecular docking; Phytochemicals; Bronchodilation; Ethnomedicine
References: Amrullah Shidiki, Ashish Vyas.2022. Molecular docking and pharmacokinetic prediction of phytochemicals from Syzygium cumini in interaction with penicillin-binding protein 2a and erythromycin ribosomal methylase of Staphylococcus aureus. 2022 Journal of Biotechnology, Computational Biology and Bionanotechnology, BioTechnology vol.103 (1)C pp. 5–18 C <http://doi.org/10.5114/bta.2022.113910> Chifamba, Joey, Shalom Mbira, And Shingirayi Zengeni. 2025. "Syzygium Cordatum Biosafety and Antifungal Activity Substantiation". Journal of Complementary and Alternative Medical Research 26 (7):150-63. <https://doi.org/10.9734/jocamr/2025/v26i7682>. O.O. Adeboye, F.O. Oyeleke, S.A. Agboluaje 2022. Molecular Docking of Inhibitory Activities of Syzygium Cordatum against Mycobacterium Tuberculosis, Adv. J. Chem. A, 2022, 5(2), 147-163. DOI: 10.22034/AJCA.2022.310927.1286 URL: http://www.ajchem-a.com/article_146908.html

MDR - D3 - P23 André Stephan Culum Water-Soluble Acylgermanes via a Germa-Michael Reaction: A Modular Route toward Bio-Compatible Photoinitiators

MDR - D3 - P24

MDR - D3 - P25 Charlie Kenny Surface functionalisation with arylimido-polyoxometalates for optoelectronic applications

MDR - D3 - P26 Jaqueline Senra Exploratory studies on the mechanosynthesis of the copper(II) cyclodextrin complex



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Congress theme:
Molecular Design & Reactivity

Session	Timing	Presenter	Title	Topic ID
MDR - D4 - O01	10:00-10:15	Mr. Shouryo Ghose	Effect of the directionality of the external force on the rupture of mechanophores	Supramol
MDR - D4 - O02	10:15-10:30	Dr. Ferran Esteve	Write and Erase: Macrocyclic Effectors Regulate Imine Expression in Water	Supramol
MDR - D4 - O03	10:30-10:45	Ms. Fidan Rahmatova	A novel prebiotic pathway for lipid acylation	Supramol
MDR - D4 - O04	10:45-11:00	Prof. Massimiliano Cordaro	Synthesis of Amphiphilic Pvrène-BODIPY Sulfonates with Self-Assembling Properties	Supramol
MDR - D4 - O05	11:00-11:15	MSc. Siebe Lekanne Deprez	Effect of Chalcogen Atom Size on Hydrogen Bond Strength in Chalcoamide-based Linear Polymers	Supramol
MDR - D4 - O06	11:15-11:30	Mr. Jie Zhang	Design of Controllable Two-Dimensional Heterojunction Structures on Surfaces - Starting from Moiré Self-Assembled	Supramol
MDR - D4 - O07	11:30-11:45	Dr. Javed Pathan	Nanotube-Induced Organic Frameworks (NIOFs) via a topochemical reactions	Supramol
MDR - D4 - O08	11:45-12:00	PhD student Anjie Johana Bolaños	Artificial Phototactic Microswimmers for Precise Light-Guided Navigation	Supramol

Lunch

MDR - D4 - I1	14:00-14:30	Xiao Feng Wu	Carbonylative transformation of light alkanes	
MDR - D4 - O09	14:30-14:45	Dr. Karolis Norvaisa	Development of Synthetic Transmembrane Transporters for Phosphates	Supramol
MDR - D4 - O10	14:45-15:00	Dr. Irene Redeni	Ru(II)-peptide conjugates for photoactivated chemotherapy	Supramol
MDR - D4 - O11	15:00-15:15	Dr. Corentin Pochet	Second-coordination sphere of pyrazoles metal complexes: from anion recognition to bimetallic assemblies	Supramol
MDR - D4 - O12	15:15-15:30	Mr. Jakub Ossowski	Selective release and rewriting of information stored in bio-hybrid digital polymers by DNA strand displacement	Supramol

Posters

MDR - D4 - P01		Yong Rok Kwon	Molecular design of acrylic polymers for controlling the damping behavior of epoxy composites	
MDR - D4 - P02		Ben Clarke	The Design & Synthesis of Fluorescent Self-Assembled Monolayers for Optical Applications	
MDR - D4 - P03		Arne Hendrickx	Synthesis and Evaluation of Boronate Precursors for Stable Astatine Radiopharmaceuticals.	
MDR - D4 - P04		Ankit Ankit	Rational Design and Antimycobacterial Evaluation of Aryl Sulfonamide-Linked Isoniazid Hydrazones Against	
MDR - D4 - P05		Hae Chan Kim	Ring-Opening Polymerization of δ -Tetradecalactone for Oil-Soluble Poly(ester) Lubricant Additives with Tunable	
MDR - D4 - P06		Sue Been Lee	Epoxy-terminated Polyurethanes as Effective Toughening Agents for Epoxy Molding Compounds	
MDR - D4 - P07		Sun Ho Seok	Toughening Effect of Core-shell Impact Modifiers on Epoxy Resin Maintaining Thermal Stability	
MDR - D4 - P08		Yuki Kurashige	Theoretical Design Principles for Spin-Selective Relaxation in Photoexcited Metal Complexes	
MDR - D4 - P09		Min Jin Seong	Improving the Toughness of Electronic Adhesives through Epoxy-Acrylic Hybridization	
MDR - D4 - P10		Vishakha Goyal	General and selective ruthenium-catalyzed hydrogenation of primary amides to primary amines under mild	
MDR - D4 - P11		Maxime Poulain	Chiral π -extended diketopyrrolopyrrole through alkyne annulation	
MDR - D4 - P12		Sean Betteridge	Structure Activity Relationship Directed Development of an Internal standard for an Electrochemical Fentanyl	
MDR - D4 - P13		Ayşe Zeyneb Erten	Monomer structure and feed protocol effects on microstructure and processing of resorcinol based polyarylates	
MDR - D4 - P14		Bert U.W. Maes	A Mechanochemical Kolbe-Schmitt reaction: Catechol Carboxylation Provides Building Blocks for Renewable	
MDR - D4 - P15		Roeve Ann Mae Caneos	Novel Nucleoside Isolated from the Philippine Marine Sponge <i>Desmacella</i> sp.	
MDR - D4 - P16		Devendra Yadav	Two Electrons in a Li-S Cage: A Novel Lithium Cubic Electride - [(tBu ₂ MeSIS) ₆ Li ₈] ₂ +2e ⁻	
MDR - D4 - P17		Andreas Orthaber	Introducing heavier main group motifs into molecular Switches	
MDR - D4 - P18		Yu Yihan	Biomimetic Synthesis Towards (\pm)-Hypeisoxazole A Under Biogenic Conditions	
MDR - D4 - P19		Zareen Khaleel	Expanding Drug-Relevant Chemical Space Through Pt-Au Bimetallic Catalysis	
MDR - D4 - P20		Georgiades Savvas	Malonic-Type Macrocyclic Esters from Catechol-Derived Propargyl Diols: Effect of Catechol Substituents on	
MDR - D4 - P21		Choinacka Anna	Heck Coupling of 10,10'-Dibromo-9,9'-bianthracene with	
MDR - D4 - P22		Lavoie Gino	Polymerizations Using Transition Metal Complexes of Monoanionic Bidentate Guanidine-Ethenolate, Phenolate, and	
MDR - D4 - P23		Godinho Patricia	Photoinduced Radical Cascade for the Synthesis of Enantiopure 2-Benzofuranyl C-Glycosides	
MDR - D4 - P24		Kim Eunae	Synthesis of Mevalonate Derivatives via LiNTf ₂ catalyzed Mukaiyama Aldol Reaction	
MDR - D4 - P25		Mardjan Muhammad Idham	An Efficient One-Pot Synthesis of Bioactive Quinazolinone Derivatives	
MDR - D4 - P26		Nam Ha Yun	Nazarov Cyclization of α -SCF ₃ Vinyl (Hetero)aryl Ketones Enabled by Trifluoromethylthio Group	
MDR - D4 - P27		Lee Garyeong	Mild Radical Construction of Tricyclic Tetrazoles via In Situ Diazotization	
MDR - D4 - P28		Lin Wei-Yu	Sustainable Approaches to Selective Amide Bond Cleavage	