



Antwerp, Belgium

# 10th EuChemS Chemistry Congress

euchems2026.eu

**12 - 16 July 2026**

Monday 13th July 2026

Congress theme:

Chemistry meets Biology &amp; Food Science

Session	Timing	Presenter	Kolom1	Title
1	10:00-10:15	Alberto	Concellón	Dynamic Complex Liquid Crystal Emulsions as Responsive Optical Platforms for Detecting Foodborne Pathogens
2	10:15-10:30	Vânia	Rodrigues	Development of a molecular beacon-based LAMP assay for the specific identification of Ginkgo biloba in commercial herbal products and food supplements
3	10:30-10:45	Alessia	Cavallaro	Fluorescent sensor array for fungal detection and VOC-based quality monitoring in citrus fruit
4	10:45-11:00	Dries	Hermans	Functionality and migration behavior of bulk-mixed and surface-coated nano Ag/PHBHHx packaging films.
5	11:00-11:15	Joana	Amaral	Development of a real-time PCR assay for the detection of Bombyx mori (silkworm) in insect-based food and feed products
6	11:15-11:30	Kelly	Bugatti	From Prediction to Bench: An Integrated Modelling-Synthesis Framework for Bitter Peptide Identification
7	11:30-11:45	Ana Catarina	Ribeiro	Polyphenol-Casein Interactions Modulate Protein Aggregation and Network Formation during Curd Development
8	11:45-12:00	Ana Rita	Pereira	New insights into yeast protein-chitosan complex coacervation for food systems
Invited lecture	14:00-14:30	<b>Markus</b>	<b>Fischer</b>	Food fraud and countermeasures
3	14:30-14:45	Maria	Maisto	Plant-Derived Extracellular Vesicles from Grape Pomace as Bioactive Nanocarriers for Anti-Aging Nutraceutical Applications
4	14:45-15:00	Jule	Fiori	Prevalence and bioavailability of Kukoamine A and B in potatoes, potato products and peppers
5	15:00-15:15	Javier	Terán Baamonde	Metal additives in polymer microparticles: a hidden gut toxicological hotspot?
6	15:15-15:30	Marina	Piacenti-Silva	Sustainable NADES Extraction of Bioactive Flavonoids from Sugarcane Bagasse and Their Antioxidant Effects in Drosophila melanogaster Alzheimer Model
7	15:30-15:45	Yuri	Asnis	Kinetics of reactive nitrogen species in Plasma-Activated Water and their role in antimicrobial activity against Escherichia coli
8	15:45-16:00	Utibe Bassey	AKPAN	Antimicrobial Ionic liquid-essential oils combinations: a mathematical modelling of interactions
1	16:30-16:45	Carlotta	Valle	Valorization of Cocoa Bean Shells by Green Extraction: A Source of Functional Compounds
2	16:45-17:00	Raquel	Nunes da Silva	Circular Valorisation of Tomato Processing By-products: Recovery of Bioactive Compounds for Sustainable Food Systems
3	17:00-17:15	Anwar	Jardine	Biomass valorisation utilising Black Soldier Fly (BSF) technology.
4	17:15-17:30	Jens	Frackenpohl	Novel heterocyclic FAT-inhibitors – Resistance-breaking and PFAS-free grass weed control solutions for sustainable agrosience in Europe
5	17:30-17:45	Chiara	Melchiorre	LC-MS of Ovatoxins: Influence of Calcium salts on ionization patterns and quantification accuracy
6	17:45-18:00	Dawid	Strzelecki	Pesticide Residues in Commercial Honey Samples: Application of a Validated Analytical Method and Chemometric Interpretation

**8x Flash Presentations:**

Luis Manuel Lopes			
Rodrigues da	da Silva	Red fruits - medicinal plants functional beverage prototypes: integrating cell bioactivity, cultivar chemistry and human metabolic biomarkers	
Raffaello	Nardin	Geographical fingerprinting of Wine: Multi-technique approach and signal masking effects	
Oluwaseun	Anselm	Bioaccumulation and distribution of Polychlorinated biphenyls (PCBs, Polycyclic Aromatic hydrocarbons (PAHs), and Organochlorine pesticides (OCPs) residues across the seafood web in Lagos Lagoon, Ogun waterside, Epe and Atlas Cove, Nigeria	
Reyhan Selin	Uysal	Monitoring aging processes and adulteration in Jerez vinegars using Raman spectroscopy and chemometrics	
Francesco	Cairone	From Mediterranean Agri-Waste to Functional Molecules for food packaging and dermo-cosmetic applications: Process-Driven Sustainable and Circular Chemistry	
Alejandro	Mendoza Cantu	Fermentation-induced molecular remodeling in South African indigenous tubers: Cassava and cocoyam	
Zuzana	Cesarova	Acrylamide in extruded snacks for children: mitigation strategy and quality assessment	
Emmanuel Kachii	Ukpoko	Analysis of Some Heavy Metals in Foodstuffs Contaminated with Pesticides using a developed Spot-test Method	



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Tuesday 14th July 2026  
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Session	Timing	Presenter	Kolom <sup>1</sup>	Title
1	10:00-10:15	Sonsoles	Martin-Santamaria	Lipopolysaccharides for modulation of innate immunity receptors: the computational eye
2	10:15-10:30	Andrea	Sodini	Mannosylated Peptide Nanofibers for MUC1-Mimetic Antigen Delivery and Immune Modulation
3	10:30-10:45	Elisabete	Coelho	Enzymatic and subcritical water extraction based strategies to increase probiotic activity through cell wall polysaccharide modulation
4	10:45-11:00	Mattan	Hurevich	Expeditious synthesis of Glycan and Glycopeptides and their use in Pathogen detection
5	11:00-11:15	Gema	Nieto-Ortiz	Designing Multivalent Glycofullerenes for Redox-Active Lectin Biosensors
6	11:15-11:30	Rachel	Hevey	Synthesis & development of mucus-derived glycans as novel anti-virulence therapeutics
7	11:30-11:45	Michaela	Prothiwa	Chemical profiling of virulence-related bacterial proteases
8	11:45-12:00	Joanna	McGouran	Profiling Deubiquitinating enzymes
Invited lecture	14:00-14:30	Tanja	Wrodnigg	Ligand-directed Chemistry profiling of Carbohydrate processing Enzymes
3	14:30-14:45	Valentina	Oliveri	Bioinorganic Hybrid Nanoplatfoms Based on Cellulose Nanocrystals for Mitochondrial Damage and Cuproptosis Induction in Tumor Cells
4	14:45-15:00	Anitha	Ethirajan	Stimuli responsive biopolymer based nanocarriers for the delivery of hydrophilic cargo
5	15:00-15:15	Hennie	Valkenier	Copper transport across cell membranes by calix[4]arene-based cationophores leading to potent biological activity
6	15:15-15:30	Vladimir	Kren	Glycosylated mycotoxins in food: A hidden enemy
7	15:30-15:45	Suada	Djukaj	Development of a biosimilar mucus layer as a predictive tool for preclinical drug assesment
8	15:45-16:00	Thilakan	Kanesalingam	A Coarse-Grained Approach to Modelling Adsorption of the Lubricating Salivary Protein, MUC5B, to Biomimetic Tongue Surfaces
1	16:30-16:45	Manuel	Maestre-Reyna	From femtoseconds to seconds: time-resolved crystallography of photolyases and cryptochromes.
2	16:45-17:00	Stefania	Gardoni	Design of semiconducting polymer interfaces to control Schwann cell behaviour
3	17:00-17:15	Cosima Damia	Calvano	Uncovering Phospholipid and Oxysterol Signatures in Pancreatic Ductal Adenocarcinoma Cells and Their Extracellular Vesicles
4	17:15-17:30	Désirée	Schlemper-Scheidt	Functional characterization of mitochondrial 3-ketoacyl-CoA thiolase (kat-1) in C. elegans using comparative metabolomics
5	17:30-17:45	Elva	Moretta	Functional Proteomics-Driven Discovery of Quinazolinones as Proteasome Inhibitors
6	17:45-18:00	Saleha	Anwar	Inhibition of pyruvate dehydrogenase kinase 3 by geraniol: biochemical, computational and cellular insights

#### 8x Flash Presentations:

Justine	Kapp	Quinoline based luminescent imidazolium salts as vector for gene therapy
Oana	Grad	Designing Antibacterial Materials Using Cysteine
		Synthesis & structure-activity relationship study on a plant-derived glycoside that attenuates virulence in Pseudomonas aeruginosa
Haris	Majstorovic	Biomimetic aqueous-core hydrogel microcapsules for spatially organized enzymatic cascade reactions
Chang-Hyung	Choi	Design and synthesis of novel sugar-based antibacterial agents against Gram-negative bacteria
Catarina	Maria	Mitochondria is red today
Nabashree	Chakraborty	Targeting RNA with clickable peptide nucleic acid-based molecular locks
Brigitte	Holzer	Cannabizetol: discovery of a new cannabinoid
Luca	Pozzi	



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Wednesday 15th July 2026  
Congress theme:  
Chemistry meets Biology & Food Science

Session	Timing	Presenter	Kolom	Title
1	10:00-10:15	Jussara	Amato	Protein-G-quadruplex interactions: Expanding frontiers in drug development
2	10:15-10:30	Tatinaidu	Kella	Disulfide-directed multicyclic peptides for chimeric antigen receptors targeting solid tumors
3	10:30-10:45	Davide	Deodato	Biophysical characterization of the complex between A $\beta$ and model peptides of optineurin: the impact of the E50K mutation in neurodegenerative pathways
4	10:45-11:00	Sara	La Manna	From Planar to Octahedral Architectures: Geometry-Driven Modulation of Amyloid Aggregation
5	11:00-11:15	Fatma Zohra	Mihoubi	Chemical requirements of coacervates as protocells
6	11:15-11:30	Sebastian	Golojuch	Enhancing and probing mRNA properties via click chemistry
7	11:30-11:45	Neda	Bagheri	Enzymatic regulation of CRISPR-Cas12a for programmable readout of DNA repair and topological states
8	11:45-12:00	Jory	Lietard	RNA and XNA microarrays: harnessing the full power of nucleic acid photolithography
Invited lecture	14:00-14:30	Manuel	Coimbra	Contribution of carbohydrates for innovation in food
3	14:30-14:45	Federico	Riu	Targeting (self-)splicing machineries with small molecules to fight cancer
4	14:45-15:00	Lily	Kenchington-Ev	Design, synthesis, and biological evaluation of traditional antibiotic scaffolds modified with a permanently charged moiety
5	15:00-15:15	Catarina	M. Correia	Rationale Design, Synthesis and Pharmacological Properties of Fused Chromenopyrazoles as CB1 Ligands
6	15:15-15:30	Malliga	Iyer	CNS sparing agents targeting Cannabinoid-1 Receptors for Treatment of Metabolic Syndrome Disorders
7	15:30-15:45	Yang-Hsiang	Chang	Molecular Design of Ultrabright NIR-II Fluorescent Probes for Deep-Tissue Imaging
8	15:45-16:00	Jessica	Rodriguez Villar	Au(III) alkynyl complexes: from structure and reactivity, to bioconjugation
1	16:30-16:45	Marta	Da Pian	Integrating chemical and biological knowledge to enhance translational research: insights from recent studies
2	16:45-17:00	Martin	Gill	Combining ruthenium(II) metallo-intercalators and PARP inhibitors for cancer therapy
3	17:00-17:15	Polyssena	Renzi	Combining Boron and Gadolinium Neutron Capture Therapy with the Inhibition of Carbonic Anhydrase for the Treatment of Mesothelioma
4	17:15-17:30	Ricardo	Ferraz	Combination of antimalarial drugs with natural acidic lipids delivers surface-active ionic liquids with multi-stage antimalarial activity
5	17:30-17:45	Márton	Bojtár	Rhodamine-based photocages for chemical biology and drug delivery
6	17:45-18:00	Rabia	Zahid	Silsesquioxane-nucleic acids suprastructures for controlled gene therapy

#### 8x Flash Presentations:

Olav	Vestreich	Synthesis of Phospholipid-Salen Manganese Conjugates as Bioactive Antioxidants for Hepatocellular Protection from Reactive Oxygen Species
Jana	Baroen	A multi-omics approach to understand how cold atmospheric plasma affects patient-derived head and neck and pancreatic tumors.
Tanguy	Scaillet	Characterisation of Brucella melitensis phosphoserine phosphatase through crystallographic and kinetic studies
Man Shing	Wong	Multimodal Nanoprobe for Amyloid- $\beta$ Targeted Imaging and Oxidative Stress Monitoring in Alzheimer's Disease
Eva	Müller	Polyphenolates as Bipotent Photostabilising and Solubilizing Agents for Riboflavin
Giorgio	Facchetti	Enantioselective access to L-Carnosine via one-pot catalytic protocol
Mubarak	Alamri	Targeting Tumor Angiogenesis and Growth Signaling: Dual VEGFR/EGFR Inhibition by some 8-methyl-2-phenyl quinazoline-4[3H]-one Derivatives
Jordi	Jaenen	Development of a Dual-Functional Nanostructure for Simultaneous Plasmonic Heating and Real-Time Temperature Sensing



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Thursday 16th July 2026

Congress theme:  
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Session	Timing	Presenter	Kolom1	Title
1	10:00-10:15	Francesco	Peri	Pharmacological modulation of human immunity: a chemistry-based approach
2	10:15-10:30	Chiara	Maccari	Environmental pollution and asthma: EXPOSOMIC approach
3	10:30-10:45	Vincenzo	Piccolo	Phytochemical profiling and quantification of glucosinolates in radish microgreens and evaluation of their H <sub>2</sub> S-mediated vasodilatory activity
4	10:45-11:00	Giorgia	Gambardella	Synthetic Gene Networks for Tunable Regulation of Enzyme-Inhibitor Complexes
5	11:00-11:15	Roberto	Olayo-Gonzalez	Plasma-Functionalized Electrospun PLA-PCL Scaffolds implanted in rabbits for Articular Cartilage Regeneration
6	11:15-11:30	Heleen	De Wever	Tunable biopolymer production from CO <sub>2</sub> through biotechnological processes
7	11:30-11:45	Sebastian-Felix	Fritz	Small Stereoselectively Deuterated Molecules at the Chemistry-Biology Interface
8	11:45-12:00	Irene	Regeni	Ru(II)-peptide conjugates for photoactivated chemotherapy
Invited lecture	14:00-14:30	Laura	Roman Rivas	Carbohydrates as building blocks of structure in plant foods
3	14:30-14:45	Nghia Chi	Luong	Quantitative Structure-Activity Relationships of HDAC7 inhibitors and stereoelectronic tuning of biarylamine conformation controls inhibition potency
4	14:45-15:00	Adriaan	Minnaard	Total synthesis of Bisenarsan; an organo-arsenic metabolite from Streptomyces
5	15:00-15:15	Cecilia	Scandurra	Transcriptional circuits control of Hybridization Chain Reaction (HCR)
6	15:15-15:30	Abrar	Hussain	Synthesis and In Vitro Antimicrobial Evaluation with Molecular-Level Insights into Novel Azomethine Derivatives

#### 8x Flash Presentations:

Mihai-Alexandru	Molența	Design and synthesis of lipid substrates for sterol imaging
Magdi	El Fergani	Synthesis and Characterization of Novel Rhodamine and Coumarin-based Fluorophores
Inês	Ferreira	De novo analytical chemistry approaches for collagen and polyphenol characterization in Physalia physalis
Cordelia	Zimmerer	From dopamine to polydopamine time-resolved IR- and Raman spectroscopy of the polymerization process
Nandini	.	Fluorescent Nanoscale Lipid Vesicles for Cysteine-Triggered Hydrogen Sulfide (H <sub>2</sub> S) Delivery and Therapeutic Potential
Elena	Lenci	Identification of novel CNS drug-like premiR-21 ligands for the treatment of high grade gliomas
Andrea	Brunelli	Toward Antibiotic-Free Crop Protection Using Advanced Nano-based Materials
Konrad	Barnowski	Synergistic cancer therapy targeting LAG-3&PD-L1 through co-administration of flavonoid and durvalumab