AGENDA
CoE Circular Bioengineering | Graz meeting 2026

CoE Project meeting – Day 1

Nov 9, 2026, 9:00 – 18:00, Meerscheinschlössl

Mozartgasse 3, 8010 Graz

09:00 – 09:15	**Welcome and organizational matters**, Roland Ludwig
09:15 – 10:45	**Program 3** • degradation of polymers, PFAS and toxic compounds • transformations/upcycling of renewables and waste streams • bioelectrocatalysis used for degradation or upcycling • understanding enzyme mechanisms and enzyme stability
10:45 – 11:15	**Coffee break**
11:15 – 12:30	**Program 4**
12:30 – 13:15	**Lunch**
13:15 – 14:30	**Walking mentoring session**
14:30 – 16:00	**Program 1**
16:00 – 16:30	**Coffee break**
16:30 – 18:00	**Program 2**
18:30 – 21:30	**Joined dinner**, Herzl Weinstube, Prokopigasse 12, 8010 Graz

CoE Project meeting – Day 2

Nov 10, 2026, 9:00 – 12:00, Messecongress Graz

Messeplatz 1, 8010 Graz, Conference Rooms 11 and 12

08:00 – 09:00	**Poster Setup**
09:00 – 10:00	**Unit Presentations**
09:00 – 09:15	• **Scientific Reporting,** Roland Ludwig
09:15 – 09:30	• **Publication Requirements & RDM Training,** Lena Ortega Menjivar
09:30 – 09:45	• **Trainings & Outreach,** Joscha Strauss
09:45 – 10:00	• **Outlook 2027,** Sophie Schober
10:00 – 10:15	**Translation & transfer activities**, Marko Mihovilovic & Bernd Nidetzky
10:15 – 10:45	**Coffee break** & **TTO Table**
10:45 – 11:45	**Poster Session** • Poster Session A: **odd poster numbers** • Poster Session B: **even poster numbers**
11:45 – 12:00	**Wrap-up,** Roland Ludwig
12:00 – 13:30	**Registration esib 2026** & **Welcome Lunch**

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Posters

No.	Name	Title
CB-01	Özge Ata	Seeing Flux in Action: Instationary ^{13}C-MFA for Single Carbon (C1) Metabolism and Beyond
CB-02	Simone Bachleitner	Bioconversion of the C1 Substrate Methanol to Succinic Acid with Engineered Komagataella phaffii
CB-03	Sandra Bindlechner	Exploring Factors Influencing Autotrophic Growth of Cupriavidus necator
CB-04	Tanja Caspary	Tubular Photobioreactor for Scalable Photo- and Mixotrophic Cultivations
CB-05	Magdalena Delač	Investigating Cyanate Assimilation in Yeast
CB-06	Isabelle Grabner	Renewable Carbon Sourcing and Cross-Sectoral Utilization Strategies for Achieving Climate Neutrality in Europe
CB-07	Florian Gregor	Green Composites from Foam-Templated Bacterial Cellulose and Walnut Shell Particulates
CB-08	Dominik Hörtnagel	Unravelling the LPMO Reaction Mechanism Using QM MM Simulations
CB-09	Daniel Kracher	Determinants of Coenzyme Specificity in Ene-Reductases from Herbaspirillum seropedicae
CB-10	Ricarda Kriechbaum	Potential of Lignocellulosic Hydrolysates as Substrate for Microalgal Cultivation
CB-11	Sophia Mihalyi	Coenzyme Regeneration in Sustainable Bioelectrocatalytic Processes
CB-12	Maren Rickert	Characterization of Bacterial Laccase PIL for Hydrocarbon Oxidation
CB-13	Nicolas Roux	Climate Change Mitigation Potentials of Increasing Material Uses of Wood in Austria
CB-14	Jana Schaubeder	Directing Cello-Oligosaccharide Assembly Towards Functional Cellulose Microbeads
CB-15	Maryam Solaimani	Engineering Yeast-Derived Virus-Like Liposomal Particles as Modular Biocatalytic Compartments
CB-16	Florentina Stadlbauer	Physical Structuring of Nanocellulose: Tailoring Anisotropy via Electric Fields
CB-17	Lukas Steinreiber	Valorisation of Bio-Derived Aldehydes via Enzymatic Lactone Formation
CB-18	Ruben Stopper	Towards Scalable Recombinant Protein Production in Vibrio natriegens
CB-19	Simeon Tietmeyer	Understanding the Mechanistic Details of Ethylene Glycol Assisted Hardwood Acidolysis Using Lignin Model Compounds
CB-20	Matthias Uiberacker	Lignin Explorer: Data-Driven Discovery of Spectral Features in HSQC NMR Datasets
CB-21	Aranza Vital	Unraveling Diol Assisted Fractionation: Optimization of Products from Ethylene Glycol Acidolysis
CB-22	Guy Wolf	Development of a Standardized Weathering and Non-Targeted Analysis Workflow for Assessing the Environmental Fate of Novel Bio-Based Materials
CB-23	Daniele Ciabatti	From Trash to Treasure: Sustainable Production of High-Value Chemicals in Fast-Growing Cyanobacteria
CB-24	Marco Fabiani	Repurposing Enzyme Activities for Polymer Degradation
CB-25	Edgar Galicia-Andrés	Molecular Modeling of Lignin
CB-26	Adrian Geordi Gonzalez Garcia	Gas Chromatography-Mass Spectrometry Based Isotopologue Ratio Analysis in Metabolomics Using Parallel Quasi-Simultaneous EI & CI-TOFMS with a Novel Flexible CI Source
CB-27	Matthias Hadrbolec	Linking Enzyme Activity to Enzyme Discovery: Functional Proteomics for Discovery of Novel Biocatalysts
CB-28	Mélanie Hall	Exploiting the Catalytic Promiscuity of Old Yellow Enzymes to Access Chiral Lactones Sustainably
CB-29	Niklas Hillbrand	Exploring and Engineering Enzymes for Polystyrene Depolymerization
CB-30	Andrea Hloušek-Kasun	Computational and Experimental Insights into the Catalytic Mechanism of Promiscuous Enzymatic Isomerization: A Case Study of Old Yellow Enzyme OYE2
CB-31	Mitchell Jones	Transforming Textile Waste into Materials Using Fungi
CB-32	Konstantinos Kanellopoulos	Reclaiming Carbon Fibres: Renewable Thermosetting Polyester Matrices for Recyclable Composites
CB-33	Meenakshi Pathmini Vinod Kumar	Towards Industrially Robust Peroxygenases: Functional and Structural Characterization of Unspecific Peroxygenases
CB-34	Jana Lukacova	Cellular Cocktails: Artificially Creating Improved Oxidative Protein Folding
CB-35	Anna Magnone	Peptide-Mediated Immobilization of Oxidoreductases on Electrodes for Enhanced Bioelectrocatalysis
CB-36	Theodor Marsoner	Cyanobacteria - The Biocatalytic Platform of the Future
CB-37	Anna Mayrhofer	Towards a Plant on a Bench - Development of a Membrane Separation Unit
CB-38	Anastasiia Naryshkina	Upcycling Waste Aromatic Polymers as Adsorbents for Atmospheric Water Harvesting
CB-39	Cédric Normand	Nanocellulose Hypercrosslinked Polymer Hybrid Membranes for Wastewater Remediation
CB-40	Odyssefs Pantelakis	Examining Non-Heme Iron Oxygenases Through the Lens of Unnatural Enzyme Engineering
CB-41	Markus Paunger	Lipid Quantification in Low-Input Samples Using Nanoflow LC-HRMS and Shotgun-Lipidomics
CB-42	Marko Rath	Investigating Novel Reactivity of Laccases for Biocatalytic Oxidation Reactions
CB-43	Sara Salehi	Utilizing α-KG Dependent Enzymes for the Regioselective C–H Functionalization of Fatty Acids
CB-44	Jana Schöffmann	Hops to Sheets: Transforming Biogas Residue into Paper
CB-45	Jannik Witte	Showcasing Quantitative Metallomics: Applications in Single-Cell Analysis

Flash talks

No.	Name	Title	Day
SF1-08	Anna Erian	Engineering Halophilic Vibrio natriegens for Pigment Production	Day 1
SF1-14	Felix Fronek	Engineering Yeast-Derived Virus-Like Particles for Membrane Protein Studies and Compartmentalized Biocatalysis	Day 1
SF1-17	Mosè Simone Galluzzo	Nitration of Renewable Aromatics from Lignin with Metal-Dependent Oxidative Enzymes	Day 1
SF2-03	Julian Libiseller-Egger	Hybrax: Bioprocess Hybrid Models Made Easy	Day 2
SF2-07	Antonia Knapp	Biorefineries as Social Networks: A Mixed-Methods Approach to Explore the Austrian Biorefinery Landscape	Day 2
SF2-10	Kinza Rumat	Engineering Flavin Photosensitizers for Light Driven Plastic Degradation	Day 2
SF2-13	Lenny Yap	From Light to Chemicals: Photosynthetic Whole-Cell Biocatalysts for Sustainable Redox Manufacturing	Day 2
SF2-14	Florian Pruckner	Evolving the Synthetic Acetyl-CoA (SACA) Pathway: A Komagataella phaffii Platform for Efficient Methanol-to-Acetyl-CoA Conversion	Day 2
SF2-15	Salvador Bertran Llorens	Microbial Production of PHA from Alkoxylated C5 Glycosides: A Holistic Biorefinery Approach to Ethyl-Substituted Sugars	Day 2

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Welcome to

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Project meeting

9-10 November 2026
Graz

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