

Program:



13:00 Welcome and opening remarks

Monika Oberer, Institute of Molecular Biosciences, University of Graz

Session 1 (Chairs: Nermina Malanović, Benjamin Bourgeois)

13:10 Special lecture: Katharina Köchl, Innophore GmbH: Search & optimization of novel proteins by 3D point-cloud Catalophores™

13:40 Nina Gubensäk, University of Graz: Vibrio cholerae's ToxRS bile sensing system

14:00 Qishun Zhou, Medical University of Graz: Structure-based computational design of senolytic peptides targeting p53 TAD2

14:20 Daniel Mokos, University of Graz: Three dimensional insights into the mechanism of A622 homologues from the nicotine biosynthesis pathway

14:40 Aleksandra Ptaszek, University of Vienna; Ligand 1H NMR Chemical Shifts as Accurate Descriptors for Protein-Drug Binding Interactions

15:00 Poster session & coffee

Session 2 (Chairs: Lina Riegler-Berket, Bastian Daniel)

16:00 Plenary lecture: Michael Grange, Rosalin Franklin Institute, Didcot, UK: Plasma FIB milling for cryoET and vEM (also cryo) of cells and tissues

16:40 Markus Braun, Graz University of Technology: De novo enzyme design by scaffolding artificial motif libraries

17:00 Toluwanimi Akinleye, University of Ibadan, Nigeria: Discovery of novel cyclotides from *Spigelia anthelmia* L. with antimicrobial activity on Gram-positive and Gram-negative bacteria

17:20 Oleksandra Tiapko, Medical University of Graz: Coordinating the regulatory dance: how PIP2 modulates TRPC3 activity via TRP helix and S4-S5 linker

17:40 Aneta Lenard, Medical University of Graz: Optofluidic force induction enables quantitative analysis of size distribution and kinetics of biomolecular condensates

18:00 Poster session & beer/”Brötchen”

19:10 Award ceremony – “BioTechMed” Poster Prizes / “Anton Paar” Talk Prize

