

Schedule

Symposium “Frontiers in Integrative Structural Biology”

Tuesday, April 9th, 2019; 9:00-16:00

HS MC 2, (MC1.A.EG.013), Medical University of Graz

9:00 Opening remarks

Karl Gruber, Inst. of Molecular Biosciences, University of Graz

Tobias Madl, Gottfried Schatz Research Center, Medical University of Graz

Andreas Winkler, Inst. of Biochemistry, Graz University of Technology

Morning program 9:10 - 12:00

Session I Chair: Tea Pavkov-Keller (University of Graz)

9:10 **Flash talks:** *Klaus Groschner* (Medical University of Graz); *Karl Gruber*, *Walter Keller* (University of Graz); *Tobias Madl* (Medical University of Graz)

9:30 *Mathias Huber* (Medical University of Graz): “Characterization of activator binding sites in TRPC-channels”

9:45 *Michael Hetmann* (University of Graz): “Structural analysis of AtBBE15 using computational methods”

10:00 *Judith Wortmann* (University of Graz): “The novel structure of the major olive pollen allergen Ole e 1”

10:15 *Sarah Stryeck* (Medical University of Graz): “Deciphering the intricate interaction network in the β -catenin destruction complex - the Axin-1 paradigm”

Coffee break 10:30 - 11:00

Session II Chair: Ruth Prassl (Medical University of Graz)

11:00 **Flash talks:** *Karl Lohner* (University of Graz); *Ivana Drienovska*, *Gustav Oberdorfer* (Graz University of Technology)

11:15 *Lisa Marx* (University of Graz): “Small angle scattering studies of *E. coli* membrane mimics”

- 11:30 *Matus Gajdos* (Graz University of Technology): "Application of non-canonical amino acids for the engineering of stereoselectivity in hydrolases"
- 11:45 *Wael Elaily* (Graz University of Technology): "Computational design of single chain helical barrels and their functionalization"

12:00 - 13:00 Lunch break with integrative buffet in front of the lecture hall

Afternoon program 13:00 - 16:00

Session III Chair: **Andreas Winkler (Graz University of Technology)**

- 13:00 **Flash talks:** *Bernd Nidetzky* (Graz University of Technology); *Monika Oberer, Georg Pabst, Tea Pavkov-Keller* (University of Graz)
- 13:20 *Martin Pfeiffer* (Graz University of Technology): "High resolution crystal structure of human GDP-mannose-4,6-dehydratase reveal the minimal active site architecture needed for NDP-sugar dehydration"
- 13:35 *Philipp Aschauer* (University of Graz): "Comparison of monoglyceride lipases and their structures"
- 13:50 *Moritz Frewein* (University of Graz): "Interleaflet coupling in asymmetrical membranes"
- 14:05 *Markus Eder* (University of Graz): "Surface-layer proteins – The bacterial armor"

Coffee break 14:20 - 14:35

Session IV Chair: **Tobias Madl (Medical University of Graz)**

- 14:35 **Flash talks:** *Andreas Winkler* (Graz University of Technology); *Ruth Prassl* (Medical University of Graz); *Krishna Bhattacharya* (University of Graz)
- 14:50 *Geoffrey Gourinchas* (Graz University of Technology): "Asymmetric structural rearrangements involved in light activation of a dimeric red light photoreceptor"
- 15:05 *Eveline Brodl* (Graz University of Technology): "Hurdles and pitfalls on the way to structural and biochemical characterization of proteins involved in bacterial bioluminescence"
- 15:20 *Karin Kornmüller* (Medical University of Graz): "Characterization of self-assembled materials for therapeutic actions"
- 15:35 *Krishna Bhattacharya* (University of Graz): Application of Trimethylsilyl (TMS) tag in probing protein - protein interactions by NMR spectroscopy

Closing remarks 15:50 – 16:00
