

## Schedule

# Symposium “Frontiers in Integrative Structural Biology”

Tuesday, April 9<sup>th</sup>, 2019; 9:00-16:00

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

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### 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

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### Morning program 9:10 - 12:00

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

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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  $\beta$ -catenin destruction complex - the Axin-1 paradigm”

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#### Coffee break 10:30 - 11:00

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

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

11:15 *Lisa Marx* (University of Graz): tba

- 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”
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**Lunch break 12:00 - 13:00** There will be a cold buffet in front of the lecture hall

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### Afternoon program 13:00 - 16:00

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

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- 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 dehydratation”
- 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”
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**Coffee break 14:20 - 14:35**

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

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- 14:35 **Flash talks:** *Andreas Winkler* (Graz University of Technology); *Ruth Prassl* (Medical University of Graz); *Krishna Bhattiprolu* (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): tba
- 15:35 *Krishna Bhattiprolu* (University of Graz): tba
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**Closing remarks 15:50 – 16:00**

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