

## Schedule of AK-Ulrich Group Meeting in Silvretta, Austria, 7-10 October 2024

Time	Monday 7/10	Tuesday 8/10	Wednesday 9/10	Thursday 10/10
8.00		Breakfast	Breakfast	Breakfast
9.00	<p><b>8.15 Meeting</b> at KIT CS, outside building 20.14</p> <p><b>8.30</b> Bus from Karlsruhe</p> <p>Stop for lunch along the way</p>	<p><b>Session 3. Mixed (Torsten)</b> Stephan <i>Squalamine: Shark attack on membranes</i> Xinru <i>Ir-catalyzed enantioselective synthesis of gem-diborylalkenes by 1,2-boron shift</i> Linxiayu <i>Purification and analysis of the heteroleptic bis(dipyrrinato)zinc(II) complexes</i></p>	<p><b>Session 7. Membrane interactions (Serhii)</b> Marcel <i>Membrane modulation by psychoactive drugs and local anesthetics: A biophysical perspective</i> Simon <i>Influence of local anesthetics and psychotropic drugs on lipid membranes</i> Annika <i>Functional reconstitution of bacterial channels into lipid vesicles</i></p>	<p><b>Session 9. Latarcins I (Erik)</b> Parvesh <i>Latarcins: Multifunctional peptides</i> Marnie <i>Structure of Ltc1 in the membrane and role of charged residues</i> Xiaomeng <i>Role of helix tilt on membranolytic action of Ltc2a</i></p>
10.30		Discussion and coffee	Discussion and coffee	Discussion and coffee
11.00		<p><b>Session 4. Gramicidins and Cells (Stephan)</b> Sergii A <i>Gramicidin X: A possible script confusion</i> Kateryna <i>Immunogenicity of photo-sensitive peptides on cancer cell cultures</i> Iryna <i>Properties of dendritic cells loaded with MDA-MB-231 lysates obtained by treatment with cytotoxic peptides LMB033</i></p>	<p><b>Session 8. Transmembrane helices (Sergii)</b> Torsten <i>TMH-TMH interactions in receptor tyrosine kinases</i> Moritz <i>Interaction studies of PDGFR<math>\alpha</math> mutants with the viral oncoprotein E5</i> Fabienne <i>Heterocomplex formation between the TMHs of various RTKs and of E5 with the subunit c of V-ATPase</i></p>	<p><b>Session 10. Latarcins II (Tamta)</b> Mario <i>Structure-function analysis of Ltc3a</i> Felicia <i>Structure-function analysis of Ltc4a</i> Kieron <i>Multiple modes of action of Ltc5</i></p>
12.30		Project discussion	Project discussion	<b>THE END</b>
14.00	<b>Arrival in Silvretta</b>	<b>13.00 Lunch</b>	<b>13.00 Lunch</b>	<b>12.30 Lunch</b>
15.00	<p><b>Session 1. Introduction + Photoswitches (Chair: Birgid)</b> † Anne <i>Welcome and introduction</i> † Erik <i>Seminar information</i> Serhii K <i>Autophagy inhibiting photoswitchable ATG16L1</i> Jann <i>Investigation of lysozyme with diarylethene-modified disulphides</i> Nataliia <i>Photoswitchable modulators of acid-sensing ion channels</i></p>	<p><b>14.30 Session 5. AMPs I (Parvesh)</b> Kevin <i>KIA peptides with hydrophobic and polar gradients and different charged sector angles</i> Mark* <i>Calcein leakage assay</i> Erik <i>Vesicle leakage induced by antimicrobial peptides</i></p>	Walk or activities	<b>13.30</b> Bus to Karlsruhe
16.45	Discussion and coffee	<b>15.45</b> Discussion and coffee		
17.15	<p><b>Session 2. Pinholins (Tamta)</b> Dennis <i>Molecular arms race – Insights into the bacterial phage shock response to pinholin-mediated cell lysis</i></p>	<p><b>16.15 Session 6. AMPs II (Dennis)</b> Ebru <i>Membrane interactions of KIA21, BPKIA14, and KL14 studied by CD spectroscopy and fluorescence assays</i></p>		
17.45	Project discussion	<b>16.45</b> Project discussion		
18.00	Dinner	Dinner	Dinner	Final version 241002

Talks: Standard talks (seniors, postdocs, master students, bachelor students) (20 min talk + 10 min questions), \* short talk (10 + 5), † very short talk (5 min)