

Schedule of AK-Ulrich Group Meeting in Söllerhaus, 30 July – 2 August 2018

Time	Monday 30/7	Tuesday 31/7	Wednesday 1/8	Thursday 2/8
8.00		Breakfast	Breakfast	Breakfast
9.00	8.45 Meeting at the university outside the AKK building (building 30.81), close to KIT shuttle bus stop 9.00 Bus from Karlsruhe	Session 3. Zippers (Igor) Torsten <i>Introduction to zippers and flipping helices</i> Niklas <i>Investigation of the BsrG H-zipper helix-helix interaction in membranes using the BLaTM assay</i> Urs <i>Investigation of the TisB charge-zipper helix-helix interaction in membranes using the BLaTM assay</i>	Session 7. KL peptides (Sergii) Fabian <i>Antimicrobial KL peptides - structural investigations and guidelines towards their mode of action</i> Luisa <i>Einfluss von Squalamin auf die Selbstassemblierung und Aggregation amphiphiler Modellpeptide</i> Alexander <i>Membrane interactions of antimicrobial, amyloid forming peptides</i>	Session 9. AMPs (Parvesh) Erik <i>Design rules of helical AMPs from studies of KIA-type peptides</i> Patrick H <i>The power of tryptophan – biophysical studies of Trp-containing KIA peptides</i> Kathrin <i>Orientation of membrane active peptides from multinuclear solid-state NMR</i>
10.30		Discussion and coffee	Discussion and coffee	Discussion and coffee
11.00		Session 4. Pinholins (Jochen) ‡Julia <i>Purifying pinholins</i> Annika <i>Leaking of pinholes</i> Lena <i>Flipping of pinholins and Tata</i>	Session 8. MD simulations (Erik) Tomáš Kubař <i>Oligomerization of membrane-active peptides – combination of all-atom and coarse-grained modeling</i> ‡Josua <i>Coarse graining – a martinization of peptides</i>	Session 10. Other topics (Oleg) Jochen <i>Can we get information on helix orientation from OCD of peptides with P_n conformation?</i> Stephan <i>Local anesthetics and lipid force</i>
		12.20 Project discussion (also over lunch)	11.50 Project discussion (also over lunch)	THE END
13.00	Coffee and snack	Lunch	Lunch	
14.00	Session 1. Introduction + Photoswitching 1 (Chair: Birgid) † Anne <i>Welcome and introduction</i> † Erik <i>Seminar information</i> Igor <i>Photoswitchable PIN1 inhibitors based on the cyclic β-sheet containing peptide scaffold</i> Sergii A <i>PTT</i>	Session 5. Receptor tyrosine kinases (Tomas) Sebastian <i>Introduction to receptor tyrosine kinase transmembrane domains</i> Patrick A <i>Determination of the membrane orientation of the EGFR transmembrane domain</i> Li <i>Self-assembly of receptor transmembrane helices in membranes studied by solid-state NMR</i>	Walk in the mountains	12.30 Travel to Karlsruhe by bus Lunch package from Söllerhaus
15.30	Discussion and coffee	Discussion and coffee		
16.00	Session 2. Photoswitching 2 (Torsten) Oleg <i>Synergistic combinations of gramicidin S and polymyxin B based antibiotics for targeting Gram-negative pathogens</i> Tim <i>Towards photocontrol of cellular uptake of cell-penetrating peptides</i> Aline <i>Toxicology screen of photo-switchable peptides in Danio rerio</i>	Session 6. DCD (Stephan) Parvesh <i>DCD-IL. Hmm...</i> Celine <i>Uptake of short SSL-25 analogs into HeLa cells</i> Alexandra <i>Optimization of human cell-penetrating peptides in Caco-2 cells</i>		
17.00	Project discussion	Project discussion		
19.00	Dinner	Dinner	Dinner	Final version 180727

Symbols: No symbol: normal talk (25 min talk + 5 min questions), ‡ Shorter talk (15 +5 minutes), † very short talk (5 min)