

## Schedule of AK-Ulrich Group Meeting in Annweiler, 2-5 August 2015

Time	Sunday 2/8	Monday 3/8	Tuesday 4/8	Wednesday 5/8
8.00		Breakfast	Breakfast	Breakfast
9.00	Travel from Karlsruhe	<b>Session 3. E5/PDGFR (Jochen)</b> Dirk <i>Hydrophobic mismatch drives the interaction of E5 with the transmembrane segment of the PDGF receptor</i> Katharina <i>Latest updates about 3 sticky proteins: BsrG, E5 and PDGFR on the test bed</i> Xu <i>Distance measurements using CPMG on PGLa and E5</i>	<b>Session 7. Bachelor students I (Stephan)</b> Dennis <i>Optimierung der Synthese Coumarin-markierter zellpenetrierender Peptide</i> Jens <i>Untersuchung der Wechselwirkung zwischen dem Tat-abhängigen Signalpeptid und der TatA-APH mittels CD-Spektroskopie</i> Saskia <i>Einflüsse von membranaktiven Peptiden auf Lipidmembranen mittels DSC und <sup>31</sup>P-Festkörper-NMR-Spektroskopie</i>	<b>Session 9. Photoswitching (Sabine)</b> Igor <i>Photodynamic therapy - past, present and future</i> Oleg B <i>Photoswitchable gramicidin S analogues in cancer therapy: in vitro and in vivo study</i> Alexander <i>Fluorescent reporters with increased information content</i>
10.45		Discussion and coffee	Discussion and coffee	Discussion and coffee
11.15		<b>Session 4. Peptides I (Johannes)</b> Philip <i>DCD update – published data vs. reality</i> Erik <i>Alanine scan of BP100</i> Parvesh <i>Beyond</i>	<b>Session 8. Bachelor students II (Christina)</b> Tabea <i>Herstellung von <sup>13</sup>C- und <sup>15</sup>N-vollmarkiertem GpA als Testpeptid für Festkörper-NMR-Kontaktmessungen</i> Pia <i>Untersuchung der Proteaseaktivität der SplB Protease aus Staphylococcus aureus</i> Sabrina <i>Telomerlängenbestimmung durch terminale Restriktionsfragmentanalyse</i>	<b>Session 10. Amino acids for <sup>19</sup>F-NMR (Igor)</b> Hanna Z <i>New CF<sub>3</sub>-substituted phenylalanine analogue as a <sup>19</sup>F-NMR-label</i> Dmytro <i>Solid state <sup>19</sup>F-NMR for membrane-active peptides: the two labels strategy</i> Oleg M <i>Novel conformationally restricted fluoro- and CF<sub>3</sub>-substituted alpha-amino acids with charged side chains</i>
13.00	Lunch	Lunch	Lunch	Lunch
14.30	<b>Session 1. Introduction and Tat I (Chair: Birgid)</b> † Anne <i>Welcome and introduction</i> † Erik <i>Seminar information</i> Torsten <i>Telomeres: A biomarker for senescence and the holy grail in cancer therapy?/Tat dependent translocation: An introduction to the translocation mechanism</i> Lena <i>Experimental proof for a surface alignment of the Tata TMS</i>	<b>Session 5. Peptides II (Marina)</b> Stephan <i>How bilayers are influenced by membrane-active peptides - a view from small angle scattering and solid state NMR</i> Sergii <i>On the role of methionine in PGLa</i> Sezgin <i>Update on structure and mechanism of the short peptaibol harzianin HK-VI</i>	Free for activities	<b>Session 11. Optical spectroscopy and CPPs (Dirk)</b> Jochen <i>Update on UV-CD12/ANKA and vacuum-UV SRCD studies of peptide films</i> Johannes R <i>Are protons or hydroxide ions translocated by TisB?</i> Marco <i>The effect on membrane translocation and perturbation by modulating the helicity of cell-penetrating peptides</i>
16.15	Discussion and coffee	Discussion and coffee		Discussion and coffee
16.45	<b>Session 2. Tat II/TMD (Erik)</b> Christina <i>Giant unilamellar vesicles (GUVs) are an attractive experimental model for studying the Tat dependent translocation system</i> Anja <i>Structural analysis of the transmembrane segment of T-cell receptor <math>\alpha</math> in model membranes</i> ‡Eva <i>Neue Einblicke in die Rolle des Membranproteins Tata bei der Tat-abhängigen Proteintranslokation</i>	<b>Session 6. Biofilms (Sergii)</b> Marina <i>The role of gramicidin S affinity to phosphoric metabolites in its anti-biofilm activity</i> Hannah K <i>The effect of peptide antibiotics on clinical multi-resistant biofilm forming enterococci</i> Jennifer <i>The action of antimicrobial peptides on clinical MRSA and their biofilm forming phenotypes</i>		<b>Session 12. Peptides III/Simulations (Torsten)</b> Sabine <i>New force field, new luck: simulations on the TisB dimer</i> Tomas <i>Insertion of a peptide into a membrane from MD simulation - harzianin and BrsG</i> Lucie <i>Biophysical study of amyloid peptides with membranes: interactions and structures determination</i>
18.30	Discussions	Discussions		Travel to Karlsruhe
19:00	Dinner	Dinner	Dinner	

Symbols: † Very short talk (5 min). ‡ PhD defense talk (20 min). No symbol: Master students, postdocs (25 min + 10 min)

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