

Schedule of AK-Ulrich Group Meeting in Buhlsche Mühle, Ettlingen, 17-19 August 2020

Time	Monday 17/8	Tuesday 18/8	Wednesday 19/8
8.45	Coffee	Coffee	Coffee
9.00	Session 1. Introduction & Water I (Birgid) †Anne Welcome †Erik Seminar introduction Torsten H ₂ Vivian Effects of gas-enriched water on biological processes in pro- and eukaryotes Lakshmi Introduction of Chlorella vulgaris and the effect of electromagnetic waves on its growth rate	Session 5. RTKs (Birgid) Sebastian Orientation of E5 and PDGFR β in the heteromeric complex Li Self-assembly of E5/PDGFR β in membranes studied by solid state NMR Anna Expression und Strukturuntersuchung der Transmembrandomäne von PDGFR α	Session 9. AMPs (Origami) (Oleg) Erik Terminal Trps increase the membrane activity of KIA peptides Patrick 22 shades of KIA21 Jenny Studies of the synergy between magainin 2 and PGLa
10.15	Discussion and coffee	Discussion and coffee	Discussion and coffee
10.45	Session 2. Water II (Sergii) Julia Effects of electromagnetic treatments of water on biological processes in pro- and eukaryotes Michelle The influence of glyphosate on protein expression	Session 6. Photoswitches I (Frauke) Tim Diarylethene photoswitches in cyclic peptidomimetics for therapy and imaging Eslam Synthese von Brücken-funktionalisierten Diarylethen-Aminosäuren für die Festphasenpeptidsynthese	Session 10. ¹⁹F-NMR (Erik) Parvesh Fluorine scan and its use Beibei Synthesis of highly fluorinated peptides for modular design of ¹⁹ F-MRI agent
11.35	Project discussion	Project discussion	Project discussion
12.15	Lunch	Lunch	Lunch
13.45	Session 3. Water III (Jochen) Alex Water analytics with NMR and other methods Tamme Analysis of physically pretreated water	Session 7. Photoswitches II (Torsten) Sergii Photoswitching peptide amphipathicity: the hard way Oleg Structural consideration underlining the development of efficient photocontrolable serine proteases inhibitors Fabian H On the way to photo-switchable mambalgin-derivatives as inhibitors for acid-sensing ion channels	Session 11. Water IV/Pinholins I (Stephan) Frauke Quantum biology Lena Previously on pinholins Olivia Comparison of different antipinholin S ²¹ 71 expression constructs
14.35	Discussion and coffee	15.00 Discussion and coffee	15.00 Discussion and coffee
15.05	Session 4. CD (Tamta) Jochen Characterization of SOG1 and its DNA binding propensity David CD studies of coronavirus proteins	15.30 Session 8. NMR (Parvesh) Stephan Going deep	15.30 Session 12. Pinholins II (Tamta) Yannick Synthesis and first structural characterization of the full length pinholin Annika Struktur und Funktion des Pinholins S ²¹ 68 des Phagen ϕ 21
15.55	Project discussion	Project discussion	16.20 Project discussion
17.00	End	End	End

Talks: Seniors, postdocs, master students, bachelor students (20 min talk + 5 min questions), † very short talk (5 min).

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