<table>
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<th>Time</th>
<th>Monday 17/8</th>
<th>Tuesday 18/8</th>
<th>Wednesday 19/8</th>
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<td>8.45</td>
<td>Coffee</td>
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| 9.00  | **Session 1. Introduction & Water I (Birgid)**<sup>1</sup>  
  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  
  † very short talk (5 min).  | **Session 5. RTKs (Birgid)**  
  Sebastian  Orientation of E5 and PDGFRβ in the heteromeric complex  
  Li  Self-assembly of E5/PDGFRβ in membranes studied by solid state NMR  
  Anna  Expression und Strukturuntersuchung der Transmembrandomäne von PDGFRα  | **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 PGLα  |
| 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 peptidimetics for therapy and imaging  
  Eslam  Synthese von Brücken-funktionalisierten Diarylen-Aminosäuren für die Festphasenpeptidsynthese  | **Session 10. $^{19}$F-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  | **Session 8. NMR (Parvesh)**  
  Stephan  Going deep  | **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 φ21  |
| 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).