



22nd RTG Symposium

TU Berlin, Hardenbergstraße 16-18, 10623 Berlin
room HBS 05 (ground floor, to the right)

Agenda

25.09.2024

MONDAY, September 30th 2024: Peptide Aggregation

08:30	Registration
09:00	Roderich Süßmuth (TU Berlin): Welcome and Introduction
09:15	Short Introductions of nominees for Student Representative
09:30	<i>Teaching Lecture</i> Aphrodite Kapurniotu (TU München): Basics of amyloid diseases and peptide-based strategies to target pathogenic amyloid self-assembly. Bernd Reif (TU/Helmholtz München): Introduction into solid-state NMR.
10:30	Break
11:00	<i>Scientific Lecture</i> Aphrodite (Ada) Kapurniotu (TU München): Exploiting cross-amyloid interactions to design peptides as multifunctional inhibitors of pathogenic amyloid self-assembly.

12:00	Lunch
13:00	<i>PhD Candidates Lectures</i> Shalini Murali Kumar (TU Berlin, Mroginski Group): A Computational Approach to Decoding AFP Peptides Interactions with Fungal Membrane: Unveiling key Binding Residues and their Impact on Specific Lipid Disruption. Elena Babenko (TU Berlin, Süßmuth Group): Discovery, mechanism and biosynthesis of lipolanthines. Aperna Palakkarussi Rathessan (FU Berlin, Kokschi Group): Structure-Activity Relationship study of β -Hairpin Peptides with Antibiotic Activity. Alina Herfort (HU Berlin, Seitz Group): Phosphorylation and GlcNAcylation of the RNA polymerase II C-Terminal domain and their effect on recognition by Pin1 and Protein Phosphatase 1.
15:00	break
15:30	<i>Scientific Lecture</i> Bernd Reif (TU/Helmholtz München): NMR experiments for the investigation of amyloidogenic peptides and proteins.
16:30	Students meet lecturers
17:00	End of day
18:00	Dinner: Pizza and Pasta at WARTESAAL, Kantstr. 10, 10623 Berlin (a few minutes by foot from the meeting venue)

**TUESDAY, October 1st 2024:
Antibiotics and Lipopeptides**

08:30 Registration

09:00 *Teaching Lecture*
Roderich Süßmuth (TU Berlin): Overview of antibacterial drugs of the past 30 years.

10:00 *PhD Candidates Lectures*
Ekaterina Dobryakova (University Potsdam, Möller Group): NMR studies on ternary complexes of paxillin's LIM-domains.

10:30 break

11:00 Announcement new student representatives

11:15 *PhD Candidates Lectures*
Peng Gao (TU Berlin, Süßmuth Group): The Two Sides of Albicidin: Antibacterial Activity and Water Solubility - A Choice Between Light and Shadow.
Dou Hong (TU, Süßmuth Group): Total synthesis of antifungal peptide AFC-BC11.

12:15 Lunch

13:15 *Scientific Lecture*
José Martins (Ghent University): Infusing structure into Pseudomonas lipopeptide research by use of NMR.

14:15 break

14:45 *Scientific Lecture*
Micha Fridman (Tel Aviv University): Chemical Probes in Antifungal Research: Visualizing Mechanisms of Action and Developing New Concepts in Drug Development.

15:45 Students meet lecturers

16:15 RTG Assembly Meeting, topics:

- Meetings, communication and networking
- Financial issues
- Outlook 2025
- 3rd Cohort of PhD Candidates (project outlines, positions, recruitment)

17:30 End of meeting