



2. Ulm Meeting – Biophysics of Amyloid Formation

Ulm University, 20/21 February 2018

20 February 2018 *Amyloids in disease*

09:00 **Marcus Fändrich** | Ulm University
Welcome

Chair: Henrike Heise

09:10 **Sjors Scheres** | MRC Laboratory of Molecular Biology, U.K.
Cryo-EM structures of tau filaments from Alzheimer's disease

09:40 **Gunnar Schröder** | Forschungszentrum Jülich, Germany
Structure of an A β (1-42) fibril by cryo-EM

10:10 **Ruben Fernandez-Busnadiego** | Max Planck Institute of Biochemistry, Germany
Unravelling the structure of toxic protein aggregates in situ

10:40 **Coffee**

Chair: Stefan Schönland

11:10 **Vittorio Bellotti** | University of Pavia, Italy, and University College London, U.K.
Role of proteolysis in transthyretin amyloidogenesis

11:40 **Stefano Ricagno** | University of Milan, Italy
The structural biology of β 2-microglobulin and light chain amyloidosis

12:10 **Lunch**

13:15 **Alfonso De Simone** | Imperial College London, U.K.
Structure and toxicity of α -synuclein oligomers

13:45 **Vytautas Smirnovas** | Vilnius University, Lithuania
Understanding pathways of insulin amyloid formation

14:15 **Postersession and coffee**

Chair: Marcus Fändrich

16:15 **Ronald Wetzel** | University of Pittsburgh, U.S.A.
KEYNOTE LECTURE. Twists and turns in a rugged landscape: an amyloid odyssey

17:15 **End of today's sessions**

21 February 2018 From pathology to function

Chair: Frederic Rousseau

- 09:00** **Fabrizio Chiti** | University of Florence, Italy
The structural determinants of protein oligomer toxicity
- 09:30** **Aphrodite Kapurniotu** | Technische Universität München, Germany
Interactions between A β and IAPP
- 10:00** **Elin Esbjörner Winters** | Chalmers University of Technology, Sweden | Cellular uptake and intracellular accumulation of amyloid aggregates: effects of size, shape, and sequence
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10:30 **Coffee**

Chair: Aphrodite Kapurniotu

- 11:00** **Per Hammarström** | Linköping University, Sweden
Amyloid polymorphism dependent fibril propagation and cytotoxicity
- 11:30** **Gennaro Esposito** | University of Udine, Italy
Interactors to contrast amyloidogenesis
- 12:00** **Shai Rahimipour** | Bar-Ilan University, Israel
Targeting amyloidogenic proteins with self-assembled cyclic D,L- α -peptides
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12:30 **Lunch**

Chair: Wolfgang Hoyer

- 13:30** **Joost Schymkowitz** | VIB Leuven, Belgium
Targeted protein aggregation
- 14:00** **Daniel Otzen** | Aarhus University, Denmark
Functional bacterial amyloid
- 14:30** **Jan Münch** | Ulm University, Germany
The role of semen amyloids in reproduction, innate immunity and viral transmission
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15:00 **Coffee**

Chair: Marcus Fändrich

- 15:30** **Ivan Korendovych** | Syracuse University, U.S.A.
De novo design of catalytic amyloids
- 16:00** **Roland Riek** | ETH Zürich, Switzerland
Amyloids: from the origin to the end of life
- 16:30** **Ehud Gazit** | Tel Aviv University, Israel
Metabolic amyloids
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17:00 **Concluding remarks and end of the meeting**
