

Amyloid Symposium Munich 2023

February 16 (Thu) and 17 (Fri), 2023 at Technical University of Munich
Organizers: Yuji Goto (Osaka Univ.) and Johannes Buchner (Tech. Univ. of Munich)



In one of the woodprints of “The 53 stations between Edo (Tokyo) and Kyoto” by the famous artist Utagawa Hiroshige, people sailed after leaving Maisaka Stn (near Hamamatsu), with the snow covered Mt. Fuji in the back. At München, we will sail to link the biology and biophysics of amyloids.

Location:
CPA

Ernst-Otto-Fischerstraße 8, 85748 Garching
Room: CPA EG.006A+B



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Thursday, 16.02.2023

14:30 – 16:00	Session 1 (Chairperson: Yuji Goto)
Johannes Buchner (TUM)	"Molecular principles of AL amyloidosis"
Eri Chatani (Kobe University)	"Study of oligomer- and protofibril-mediated amyloid nucleation: Mechanistic insights from insulin and its B chain"
Martin Zacharias (TUM)	"Stability of amyloid fibrils studied by molecular simulations"
16:00 – 16:30	<i>Coffee Break</i>
16:30 – 18:00	Session 2 (Chairperson: Eri Chatani)
Aphrodite Kapurniotu (TUM)	"Designed peptides as nanomolar amyloid inhibitors acting via nanofiber co-assembly"
Ramona Absmeier (TUM)	"Patient-specific analyses reveal general features of AL amyloidosis"
Kichitaro Nakajima (Osaka University)	„Proteostasis in dialysis-related amyloidosis“
18:00	<i>Dinner</i>

Friday, 17.02.2023

9:00 – 10:30	Session 3 (Chairperson: Aphrodite Kapurniotu)
Bernd Reif (TUM)	"Aggregation kinetics and amyloid fibril structure probed by solution and MAS solid-state NMR"
Hirotsugu Ogi (Osaka University)	"QCM study on surface aggregation/disaggregation reactions"
Daniel Otzen (Aarhus University)	"The many facets of functional amyloid"
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 12:30	Session 4 (Chairperson: Bernd Reif)
Marcus Fändrich (Ulm Univeristy)	"Cryo-EM structures of amyloid fibrils"
Vittorio Bellotti (University of Pavia)	"TTR Amyloidosis : from pathology and clinic to basic mechanism and back"
Kei-ichi Yamaguchi (Osaka University)	"Mechanisms of polyphosphate-induced amyloid formation"
12:30 – 14:00	<i>Lunch</i>
14:00 – 14:45	Session 5 (Chairperson: Johannes Buchner)
Yuji Goto (Osaka University)	"Breakdown of supersaturation barrier links protein folding to amyloid formation"