

ADAM 9 Program

Venue: University of Latvia, House of Nature (1 Jelgavas street)

The conference is supported by



12:00-14:00	Lobby	Registration	
13:00-14:00	Room 107	Lunch	
14:00-14:20	Room 106 (Magnum)	Opening	
	Room 106 (Magnum)	Session 1	Clinical and preclinical amyloid reasearch (chair Baiba Jansone , University of Latvia)
14:20-14:55		Invited lecture 1	Zane Jaunmuktane (University College London, UK) <i>Evidence for human transmission of amyloid-β pathology</i>
14:55-15:15			Jan Johansson (Karolinska Institutet, Sweden) <i>Intravenous treatment of Alzheimer disease mouse models with a recombinant BRICHOS domain improves pathology in relation to its efficiency against neurotoxic Aβ42 oligomers in vitro</i>
15:15-15:35			Greta Elovsson (Linköping University, Sweden) <i>Designing a Novel Drosophila Model of Alzheimer's Disease to Study Aβ Proteotoxicity in the Digestive Tract</i>
15:35-16:00	Room 107	Coffee break	
	Room 106 (Magnum)	Session 2	Functional amyloids (chair Ludmilla Morozova-Roche , Umeå University)
16:00-16:20			Daniel Otzen (Aarhus University, Denmark) <i>Use and abuse of functional amyloid: how to control and direct protein self-assembly</i>
16:20-16:40			Alons Lends (Latvian Institute of Organic Synthesis, Latvia) <i>Functional amyloids seen by 1H and ^{19}F detected solid-state NMR spectroscopy at fast magic angle spinning regime</i>
16:40-17:15		Invited lecture 2	Per Westermark (Uppsala University, Sweden) <i>Nomenclature: Much more than names</i>

17:15-17:55		Panel discussion 1	<i>Amyloid nomenclature</i>
17:55-18:35		Panel discussion 2	<i>Ethical questions</i>
18:35-18:45	Lobby	Posters up	33 posters
18:45-20:00	Room 702	Mixer with snacks and drinks	

November 15

	Room 106 (Magnum)	Session 3	Amyloid polymorphism (chair Daniel Otzen , Aarhus University)
9:00-9:35		Invited lecture 3	Tuomas Knowles (University of Cambridge, UK) <i>Kinetics of protein aggregation</i>
9:35-9:55			Vytautas Smirnovas (Vilnius University, Lithuania) <i>The role of environment in amyloid aggregation</i>
9:55-10:15			Farjana Parvin (Linköping University, Sweden) <i>Classification of Aβ amyloid fibril structures in mouse models of Alzheimer's disease</i>
10:15-10:35			Zigmantas Toleikis (Latvian Institute of Organic Synthesis, Latvia/Vilnius University, Lithuania) <i>S100A9 interacts with alpha-synuclein and alters the structure of amyloid fibrils</i>
10:35-11:00	Room 107	Coffee	
	Room 106 (Magnum)	Session 4	Mechanisms of amyloid formation (chair Tuomas Knowles , University of Cambridge)
11:00-11:35		Invited lecture 4	Alexander Kai Büll (Technical University of Denmark, Denmark) <i>The thermodynamics of amyloid fibril formation</i>
11:35-11:55			Christofer Lendel (KTH Royal Institute of Technology, Sweden) <i>Amyloid as a generic structural form of proteins – new insights from food proteins</i>
11:55-12:15			Yann Fichou (University of Bordeaux, France) <i>Tau protein phase transitions</i>
12:15-12:35			Jēkabs Fridmanis (Latvian Institute of Organic Synthesis, Latvia) <i>Aggregation Condition–Structure Relationship of Mouse Prion Protein Fibrils</i>
12:35-14:00	Room 107	Lunch	
	Room 106 (Magnum)	Session 5	Amyloid interactions I (chair Christofer Lendel , KTH Royal Institute of Technology)
14:00-14:35		Invited lecture 5	Elin K. Esbjörner (Chalmers University of Technology, Sweden) <i>Metals and membranes in amyloid formation and propagation</i>
14:35-14:55			Ludmilla Morozova-Roche (Umeå University, Sweden) <i>Role of pro-inflammatory S100A9 protein in amyloid-neuroinflammatory cascade in neurodegenerative diseases</i>
14:55-15:15			Philip Williamson (University of Southampton, UK) <i>Unravelling the Role of S100A9 in the Development of Neurodegenerative Disease</i>

15:15-15:35			Johan Larsson (Linköping University, Sweden) <i>HSP10 as a Chaperone for Neurodegenerative Amyloid Fibrils</i>
15:35-17:00	Lobby, Room 107	Poster session & coffee	
	Room 106 (Magnum)	Session 6	Amyloid interactions II (chair Jan Johansson , Karolinska Institutet)
17:00-17:35		Invited lecture 6	Fabrizio Chiti (University of Florence, Italy) <i>Interaction of protein aggregates with biological membranes: a key event in neurodegenerative diseases. From basic science to clinical trials</i>
17:35-17:55			Sofie Nyström (Linköping University, Sweden) <i>Amyloidogenesis and cross seeding potential of SARS-COV-2 Spike protein</i>
17:55-18:15			Helene Tigro (Tallinn University, Estonia) <i>Bri2 BRICHOS as a transport vehicle for brain delivery of proteins</i>
18:15-18:35			Ondrej Cehlar (Slovak Academy of Sciences, Slovakia) <i>Short truncated tau fragment 321-391 aggregates in the presence of heparin despite the lack the PHF6 epitote</i>
19:00	Radisson Blu Daugava	Conference dinner	
November 16			
	Room 106 (Magnum)	Session 7	Amyloid structure (chair Oxana Klementieva , Lund University)
9:00-9:35		Invited lecture 7	Guido Pintacuda (Université de Lyon, France) <i>Conformational dynamics by NMR on crystals: a tool for detecting the aggregation propensity of folded and soluble proteins?</i>
9:35-9:55			Darius Šulskis (Vilnius University, Lithuania) <i>Determining Structure of S100A9 Amyloid Fibrils by Cryo-EM</i>
9:55-10:15			Stefano Ricagno (Università degli Studi di Milano/IRCCS Policlinico San Donato, Italy) <i>Ex-vivo structural biology: new insights on systemic amyloidosis</i>
10:15-10:35			Axel Abelein (Karolinska Institutet, Sweden) <i>Structural insights into the anti-amyloid Bri2 BRICHOS chaperone binding to Alzheimer's associated amyloid-β fibrils</i>
10:35-11:00	Room 107	Coffee	
	Room 106 (Magnum)	Session 8	Anti-amyloid drug discovery (chair Guido Pintacuda , Université de Lyon)
11:00-11:35		Invited lecture 8	Michele Vendruscolo (University of Cambridge, UK) <i>Kinetics-Based Drug Discovery for Alzheimer's Disease</i>
11:35-11:55			Andrius Sakalauskas (Vilnius University, Lithuania) <i>Autoxidation Increases Anti-Amyloid Characteristics of Flavones</i>

11:55-12:15		Tatsiana Kupreichyk (Forschungszentrum Jülich/Heinrich-Heine-Universität Düsseldorf, Germany) <i>Structural basis for the inhibition of IAPP fibril formation by the co-chaperonin prefoldin</i>
12:15-12:35		Zhen Jin (Karolinska Institutet, Sweden) <i>A super-efficient anti-amyloid chaperone domain BRICHOS in inhibition of amyloid fibril formation</i>
12:35-14:00	Room 107	Lunch
	Room 106 (Magnum)	Session 9
14:00-14:35		Emerging techniques for amyloid research (chair Vytautas Smirnovas , Vilnius University) Invited lecture 9
14:00-14:35		Mingdong Dong (Aarhus University, Denmark) <i>Reversible Crystallization of Amyloid Proteins</i>
14:35-14:55		Oxana Klementieva (Lund University, Sweden) <i>Fluorescently guided optical photothermal infrared microspectroscopy for detection of structurally altered amyloid proteins in cells and tissues at a subcellular level</i>
14:55-15:15		Andreas Barth (Stockholm University, Sweden) <i>Structure and interactions of amyloid-β peptide aggregates unraveled by novel infrared spectroscopy approaches</i>
15:15-15:35		Ganesh Mohite (Linköping University, Sweden) <i>A fluorescent fusion protein as a structural probe to monitor Aβ-amyloid fibril polymorphism</i>
15:35-17:00	Lobby, Room 107	Poster session & coffee
17:00-17:35	Room 106 (Magnum)	Invited lecture 10
17:00-17:35		Gunilla Westermark (Uppsala University, Sweden) <i>Inhibition of islet amyloid formation in functional insulin-producing islet-like cell clusters</i>
17:35-18:00	Room 106 (Magnum)	Closing