



## Shaping the Proteostasis Network Mainz (PNM)

### The 1<sup>st</sup> PNM-Workshop on

ReALity

“Proteostasis Research in Health, Aging & Disease” – 23 February 2023

9:00 – 9:10	Opening Remarks by Helle Ulrich & Christian Behl – Workshop Aims & Questions
<b>Session 1 – Dynamics of Protein Quality Control &amp; Ubiquitination — Chair: Christian Behl</b>	
9:10 – 9:20	Anton Khmelinskii: “Proteome organization and dynamics”
9:20 – 9:30	Petra Beli: “Targeted protein degradation on chromatin”
9:30 – 9:40	Helle Ulrich: “Manipulating the ubiquitin code”
9:40 – 9:50	Dirk Schneider: “Membrane proteostasis”
9:50 – 10:00	Stefan Tenzer: “High-resolution proteomics and immunopeptidomics to characterize proteostatic mechanisms in antigen processing and presentation”
10:00 – 10:10	Sven Dankwardt: “Alternative polyadenylation as regulatory hub for proteasomal activities and protein localization”
10:10 – 10:30	Session 1 Discussion & Ad hoc Statements / Collaboration Opportunities
10:30 – 10:50	Coffee Break I & Networking
<b>Session 2 – Autophagy Pathways in Proteostasis — Chair: Petra Beli</b>	
10:50 – 11:00	Christian Behl: “Modulators of selective macroautophagy”
11:00 – 11:10	Andreas Kern: “Lipid and protein profiling of autophagic vesicles”
11:10 – 11:20	Hagen Körschgen: “Co-chaperone BAG3 directly targets autophagic degradation via its LC3-interacting regions
11:20 – 11:30	Albrecht Clement: “Endosomal-autophagic crosstalk”
11:30 – 11:40	Eva Wolf: “Daily regulated proteasomal degradation and autophagy mediate robust circadian timing, a prerequisite for healthy aging”
11:40 – 11:50	Uwe Wolfrum: “The adhesion GPCR VLGR1/ADGRV1 controls autophagy”
11:50 – 12:00	Michael Schmeisser: “Role of CYLD in synaptic proteostasis, synaptic autophagy, and the development of both neuropsychiatric and neurodegenerative phenotypes.”
12:00 – 12:20	Session 2 Discussion & Ad hoc Statements / Collaboration Opportunities
12:20 – 13:30	LUNCH Break & Networking
<b>Session 3 –Aspects of Protein Turnover in the Brain — Chair: Edward Lemke</b>	
13:30 – 13:40	Claire Jacob: “Controlling myelinophagy in Schwann cells and oligodendrocytes to enhance axonal regeneration”
13:40 – 13:50	Martin Heine: “Turnover of calcium channels within the presynaptic membrane”
13:50 – 14:00	Jakob von Engelhardt: “CKAMP59, a novel regulator of AMPA receptor proteostasis”
14:00 – 14:10	Michael Schäfer: “Microglia and brain proteostasis”

14:10 – 14:20	<b>Ari Waisman:</b> <i>“Inflammatory mediators in autoimmunity”</i>
14:20 – 14:30	<b>Helen May-Simera:</b> <i>“Molecular mechanisms underlying ciliopathies”</i>
14:30 – 14:40	<b>Claus Pietrzik:</b> <i>“Targeted reduction of protein degradation at the blood brain barrier leads to increased protein clearance from the brain”</i>
14:40 – 15:00	<b>Session 3 Discussion &amp; Ad hoc Statements / Collaboration Opportunities</b>
15:00 – 15:20	<b>Coffee Break II &amp; Networking</b>
<b>Session 4 – Methods &amp; Mechanisms linked to Protein Disorders – Chair: Helle Ulrich</b>	
15:20 – 15:30	<b>Kristina Endres:</b> <i>“ADAM10 – more than the good guy in Alzheimer’s disease”</i>
15:30 – 15:40	<b>Susann Schweiger &amp; Oliver Tüscher:</b> <i>“Dysbalance between translation and degradation leads to an overload of aberrant protein in Huntington’s Disease”</i>
15:40 – 15:50	<b>Miguel Andrade:</b> <i>“Evolutionary and network study of homorepeats and disorder to predict their function and disfunction ”</i>
15:50 – 16:00	<b>Dorothee Dormann:</b> <i>“Quality control of phase separating RNA-binding proteins linked to neurodegenerative disorders ”</i>
16:00 – 16:10	<b>Lukas Stelzl:</b> <i>“Dysregulation of phase separation: Towards understanding homeostatic mechanisms in computer simulations ”</i>
16:10 – 16:20	<b>Edward Lemke:</b> <i>“Decoding molecular plasticity in the dark proteome”</i>
16:20 – 16:30	<b>Katja Luck:</b> <i>“Towards systematic discovery of protein interaction interfaces involving disorder”</i>
16:30 – 16:50	<b>Session 4 Discussion &amp; Ad hoc Statements / Collaboration Opportunities</b>
16:50 – 17:30	<b>Workshop wrap-up discussion, future opportunities &amp; closing remarks</b>

**Venue:**

Alte Mensa, Atrium maximum (right side)

