

The Adaptive Brain

– Gene Expression and Regulation for Plasticity

20 August 2025: Gene Regulation

Morning session: epigenetic regulation and afternoon session: Transcriptomic regulation

Time	Activity
8:30 - 9:00	Welcome! Registration & coffee
9:00 - 9:15	Opening Remarks by the Scientific Organisers: DANDRITE Group Leaders Taro Kitazawa and Chao Sun.
9:15 - 10:15	Brain Prize Keynote Speaker: Dr Michael Greenberg (Harvard) Title: How nature and nurture conspire to control brain development and function
10:15 - 10:45	Coffee break
10:45 - 11:05	Talk: Group Leader Kyung Min Noh (Aarhus University) Title: Functional dissection of chromatin regulators implicated in neurodevelopmental disorders
11:05 - 11:25	Talk: Group Leader Vijay Tiwari (University of Southern Denmark), Title: Deciphering the Gene Regulatory Code of Brain Development and its Disruption in Neurodevelopmental Disorders
11:25 - 11:40	Break
11:40 - 12:10	Selected short talks <ol style="list-style-type: none"> 1. Sara Sejer Sørensen, PhD student, Aarhus University: <i>EZ-HCR: Whole-Tissue Spatial Imaging of RNA and Proteins</i> 2. LaShae NicholSEN, Postdoc, Yale University: <i>Insulin resistance drives transcriptional remodeling of cortical inhibitory neurons and microglia to exacerbate Alzheimer's disease phenotypes in knock-in mice</i> 3. Jørgen Kjems, Prof. Aarhus University: <i>Expression and function of circRNAs in neural development and disease</i>
12:10 - 13:15	Lunch break for everyone + "Meet the keynote speaker" – lunches
13:15 - 14:00	Keynote Lecture by Speaker: Dr Alex Schier (Biozentrum) Title: Global views of development
14:00 - 14:15	Break
14:15 - 14:35	Talk: Group Leader Taro Kitazawa (Aarhus University) Title: Recording cellular memory to reveal the mechanism of brain memory formation

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14:35 – 14:55	Talk: Fides Zenk (EPFL, Switzerland) Title: Single-cell epigenomic reconstruction of early human brain organoid development
15:00 – 16:30	Poster session A with coffee and cake
16:30 – 17:30	Reception

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21 August 2025: Proteostasis and circuit mechanisms

Morning Session: Proteostatic regulation in the brain and afternoon Session: Plasticity, circuits, and dysfunction

Time	Activity
8:30 - 9:00	Good morning! Coffee & Networking
9:00 - 9:45	Keynote Lecture: Speaker: Dr Anne Schäfer (MPI) Title: Alzheimer's disease reveals regulatory microglia potential
9:45 - 10:05	Talk: Group leader Chao Sun (Aarhus University) Title: The Synaptic Machinery for Protein Quality Control
10:05 - 10:25	Talk: Group leader Anders Nykjær (Aarhus University) Title: SorCS Receptors: Connecting Psychiatric Risk to Disease Mechanisms
10:25 - 10:55	Selected short talks <ol style="list-style-type: none"> 1. Eva Kaulich, Postdoc, Max Planck Institute for Brain Research: <i>Activity-dependent transcriptome remodeling at synapses</i> 2. Alexander Walter, Associate Prof., University of Copenhagen: <i>Presynaptic protein translation as a mechanism for long-term homeostatic plasticity</i> 3. Kenneth Lindegaard Madsen, Associate Prof., University of Copenhagen: <i>Central Effects of Anti-Obesity Drugs</i>
10:55 - 11:05	Break
11:05 - 11:50	Panel discussion, Keynote speakers, Poul Henning Jensen and Jan Egebjerg (LF). <i>"Challenges in bridging basic and translational neuroscience"</i> Moderators: Chao Sun and Taro Kitazawa.
11:50 - 12:50	Lunch break for everyone + "Meet the keynote speakers" – lunch
12:50 - 13:10	Talk: Jakob Balslev Sørensen (University of Copenhagen) Title: The SNAREopathies: diseases of the neurotransmitter release machinery
13:10 - 13:30	Talk: Daan van Aalten (Aarhus University) Title: Models and mechanisms of O-GlcNAc transferase intellectual disability
13:30 - 15:00	Poster session B with coffee and cake
15:00 - 15:45	Keynote Lecture: Speaker: Dr Elly Nedivi (MIT) Title: TBA

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15:45 – 16:00	Awards and closing remarks
16:00 – onwards	Informal gathering at Aarhus Street Food (optional and at own expense)