

The Brain Conferences

RNA Mechanisms and Brain Disease

20 – 23 October 2021

[Rungstedgaard](#), Denmark

PRELIMINARY PROGRAMME

| Wednesday, 20 October 2021 | |
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| From 14:15 | Arrival and registration |
| 14:50-15:00 | Welcome address from the Conference Chairs |
| Translation Control | |
| <i>Session Moderator:</i> Joel Richter | |
| 15:00-15:40 | Giovanna Mallucci , University of Cambridge, UK Translating translation in neurodegeneration |
| 15:40-16:20 | Kobi Rosenblum , University of Haifa, Israel eEF2 pathway in the DG of the hippocampus determines cognitive function |
| 16:20-16:50 | Afternoon snack |
| 16:50-17:30 | Nahum Sonenberg , McGill University, Canada Translational control of synaptic plasticity and learning & memory via excitatory and inhibitory neurons |
| 17:30-17:50 | <i>Short talk (to be selected from submitted abstracts)</i> |
| 17:50-18:30 | Steven Goldman , University of Rochester Medical Center, USA; University of Copenhagen, DK Talk title tba |
| 18:30-18:50 | <i>Short talk (to be selected from submitted abstracts)</i> |
| 19:00-21:30 | Welcome Drink & Dinner |

Thursday, 21 October 2021

Structure and Splicing

Session Moderator: Nahum Sonenberg

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| 09:00-09:40 | Peter Scheiffele , University of Basel, Switzerland Alternative splice codes for synapse specification and plasticity |
| 09:40-10:20 | Jernej Ule , Francis Crick Institute, United Kingdom Condensation-driven RNP assembly and function |
| 10:20-10:50 | Group Picture and Coffee Break |
| 10:50-11:30 | Elena Conti , Max Planck Institute of Biochemistry, Germany Molecular mechanisms of RNA degradation |
| 11:30-12:10 | Roland Beckman , Gene Center Munich, Germany Meta levels of translation: how mRNAs manipulate ribosomes and how ribosomes strike back |
| 12:10-12:50 | Maria Barna , Stanford University, USA Ribosomes in Gene Regulation: Controlling the diversity of proteins made in specific cells, tissues and organisms |
| 12:50-14:00 | Lunch |

Regulation in Neurons

Session Moderator: Peter Scheiffele

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| 14:00-14:40 | Erin Schuman , MPI Brain Research, Germany Neuronal Protein Synthesis Mechanisms |
| 14:40-15:20 | Antonella Riccio , University College London, United Kingdom RNA metabolism in developing neurons |
| 15:20-15:35 | Poster Spotlights I * (9 presentations, 90 seconds each) |
| 15:35-17:35 | Poster Session I with Afternoon Snack |
| 17:35-18:05 | Robert Singer , Albert Einstein College of Medicine, USA Mechanism of mRNA Regulation in Live Brain Tissue |
| 18:05-18:35 | End of the day: Group discussion |
| 19:00-21:30 | Dinner |

Friday, 22 October 2021

RNA in Disease

Morning Session Moderator: Antonella Riccio

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| 09:00-09:40 | Kent Duncan , ZMNH, Hamburg University, Germany RNA-binding proteins in brain development and neurodegenerative disease |
| 09:40-10:20 | Erik Storkebaum , Donders Institute for Brain, Cognition and Behaviour, Netherlands tRNA overexpression: a novel therapeutic approach for peripheral neuropathy? |
| 10:20-10:40 | <i>Short talk (to be selected from submitted abstracts)</i> |
| 10:40-11:15 | <i>Coffee Break</i> |
| 11:15-15:15 | Box Lunch, outing to Louisiana Museum |
| 15:30-16:10 | Marc-David Ruepp , King's College London, United Kingdom Direct FUS – snRNA interactions provide a molecular link between ALS and SMA |
| 16:10-16:25 | Poster Spotlights II ** (9 presentations, 90 seconds each) |
| 16:25-18:25 | Poster Session II with Afternoon Snack |
| <i>Afternoon Session Moderator: Giovanna Mallucci</i> | |
| 18:25-19:05 | End of the day: Group discussion |
| 19:05-21:30 | Dinner |

Saturday, 23 October 2021

Morning Session Moderator: tba

09:00-09:40 **Eric Klann**, New York University, USA
Cell type-specific translation in memory and brain disorders

09:40-10:20 **Joel Richter**, University of Massachusetts Medical School, USA
Translational Dissonance in Neurologic Disease

10:20-10:50 Coffee Break

10:50-11:30 **Claudia Bagni**, University of Lausanne, Switzerland
RNA metabolism and social competence

11:30-12:10 *Short talks (to be selected from submitted abstracts)*

12:30-14:00 Lunch

Afternoon Session Moderator: tba

14:00-14:40 **Gary Bassell**, Emory University, USA
RNA Dysregulation and Brain Disease in Myotonic Dystrophy

14:40-15:20 *Short talks (to be selected from submitted abstracts)*

15:20-16:00 **Danny Nedialkova**, Max Planck Institute of Biochemistry, Germany
Cell-context specific regulation of protein synthesis.

16:00-16:30 Coffee Break

16:30-17:10 **Susan Ackerman**, University of California San Diego, USA
tRNAs and Neuronal Function

17:10-17:40 Tying it all together: Group Discussion & Closing Remarks
Co-chairs

19:00-22:00 Gala Dinner & Poster Awards

Sunday, 24 October 2021: Breakfast, departure