



MINERVA FOUNDATION SYMPOSIUM **NEUROSCIENCE FINLAND 2016**

HEALTHY AND PATHOLOGICAL WIRING OF THE DEVELOPING BRAIN

October 25, 2016, Biomedicum Helsinki 1, Lecture room 2

The main goal of this meeting is to bring together researchers from diverse fields to explore how brain connectivity is established, how genetic variation can affect these processes, how circuit and network function are affected by defects in neural development, how this can lead to neurological disorders and how those disorders can be treated in future.

SESSION I HEALTHY WIRING OF THE DEVELOPING BRAIN

Chairperson Dan Lindholm, Minerva Foundation Institute for Medical Research

- 9.00-9.05 **Welcoming words**
Vesa Olkkonen, Minerva Foundation Institute for Medical Research
- 9.05-9.50 **SRGAP2A and its human-specific paralog SRGAP2C coordinates the development of excitatory and inhibitory synapses**
Franck Polleux, Department of Neuroscience,
Columbia University in the City of New York, New York, USA
- 9.50-10.20 **Dendritic spine morphogenesis**
Pirta Hotulainen, Minerva Foundation Institute for Medical Research, Helsinki, Finland
- 10.20-10.50 **Activity-dependent plasticity mechanisms constructing glutamatergic synapses**
Sari Lauri, Department of Biological and Environmental Sciences,
University of Helsinki, Helsinki, Finland
- 10.50-11.15 *Coffee*
- 11.15-11.45 **Early development of functional networks in the human**
Sampsa Vanhatalo, Department of Neurosciences, University of Helsinki, Helsinki, Finland

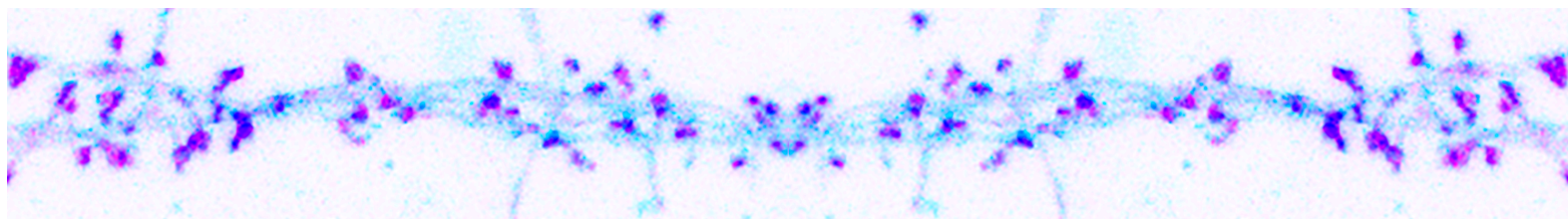
AWARDS

- 11.45-12.20 **NEUROSCIENTIST OF THE YEAR:** Asla Pitkänen, A.I. Virtanen Institute for Molecular Sciences,
University of Eastern Finland, Finland
Post-traumatic epilepsy: from mechanisms to therapy
- 12.20-12.35 **Neuroscience PhD thesis of the Year**
- 12.35-13.30 *Lunch* (P-floor, B-wing)



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SESSION II PATHOLOGICAL WIRING OF THE DEVELOPING BRAIN

Chairperson Pirta Hotulainen, Minerva Foundation Institute for Medical Research

13.30-14.15 Synaptic pathologies underlying developmental brain disorders

Scott Soderling, Department of Cell Biology,
Duke University Medical Center, University of Washington, USA

14.15-15.00 Common variants genetics: what they tell us about biology and treatment of psychiatric illness

Stephan Ripke, Department of Psychiatry, Charité, Berlin, Germany

15.00-15.30 First-episode psychosis: brain structure and functioning and peripheral metabolic and immunological changes

Jaana Suvisaari, National Institute for Health and Welfare, Helsinki, Finland

15.30-16.00 *Coffee*

SESSION III TOWARDS NOVEL TREATMENTS

Chairperson Iiris Hovatta, University of Helsinki

16.00-16.30 Injury and repair in the developing brain

Klas Blomgren, Department of Women's and Children's Health,
Karolinska Institutet, Stockholm, Sweden

16.30-17.00 Stem cell treatments

Outi Hovatta, Department of Clinical Science, Intervention and Technology,
Karolinska Institutet, Stockholm, Sweden

17.00-17.30 Cognition animal models in schizophrenia and new treatment mechanisms

Sanna Janhunen, Orion Pharma, Turku, Finland

17.30-18.00 Peroxisome proliferator-activated receptor (PPAR) agonists have beneficial actions in brain disorders

Dan Lindholm, Minerva Foundation Institute for Medical Research, Helsinki, Finland

18.00-18.05 Closing of the Symposium

Vesa Olkkonen, Minerva Foundation Institute for Medical Research

18.05 → *Posters with wine and salad*

Minerva Foundation - <http://minervafoundation.fi/index.html>

Brain Research Society of Finland - <http://www.brsf.org/>



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