

Developing Brains

Karolinska Institute Conference
The Nobel Forum, Stockholm, Sweden, 1st September 2017
(Preliminary schedule and tentative titles of talks)

Organizers

Gonçalo Castelo-Branco
Jens Hjerling-Leffler
Sten Linnarsson
Ulrika Marklund

08.30-09.00 REGISTRATION

9.00-9.10 WELCOMING ADDRESS

SESSION I: ENTERIC NERVOUS SYSTEM

CHAIR: Ulrika Marklund, Karolinska Institute, Stockholm, Sweden

9.10-10.00 ORGANISATION AND FUNCTION OF THE ENS: LESSONS FROM DEVELOPMENT

Vassilis Pachnis, Francis Crick Institute, London, UK

10.00-10.20 COFFEE BREAK

10.20-11.10 DEVELOPMENT OF CELL-CELL COMMUNICATION IN THE ENTERIC NERVOUS SYSTEM

Marlene Hao, University of Melbourne, Melbourne, Australia

SESSION II: MYELINATION IN THE CENTRAL NERVOUS SYSTEM

CHAIR: Gonçalo Castelo-Branco, Karolinska Institute, Stockholm, Sweden

11.10-12.00 FROM MYELIN BIOLOGY TO MYELIN REPAIR

Mikael Simons, Institute of Neuronal Cell Biology (TUM-NCB), Technische Universität München, Germany

12.00-12.50 NEONATAL BRAIN INJURY AND WHITE MATTER DEVELOPMENT/FUNCTION AND REGENERATION

Vittorio Gallo, George Washington University School of Medicine, USA

12.50-13.50 LUNCH BREAK

SESSION III: NEURONAL NETWORKS IN THE CENTRAL NERVOUS SYSTEM

CHAIR: Jens Hjerling-Leffler, Karolinska Institute, Stockholm, Sweden

13.50-14.40 CONDITIONAL GENETICS AND OPTOGENETICS TO INVESTIGATE NEURAL CIRCUITS IN GENETIC EPILEPSIES

Elsa Rossignol, Department of Neurosciences, Université de Montréal, Canada

14.40-15.30 DEVELOPMENTAL DYSFUNCTION OF VIP INTERNEURONS IMPAIRS CORTICAL CIRCUITS

Jessica Cardin, Yale University, New Haven, USA

15.30-15.50 COFFEE BREAK

SESSION IV: EPIGENOMICS AND TRANSCRIPTOMICS STUDIES IN THE DEVELOPING CENTRAL NERVOUS SYSTEM

CHAIR: Sten Linnarsson, Karolinska Institute, Stockholm, Sweden

15.50-16.40 EPIGENETIC REGULATION OF NON-CODING DNA

Danny Leung, Hong Kong University of Science and Technology, Hong Kong

16.40-17.30 PROGRAMMING, REPROGRAMMING AND MODELING OF THE MAMMALIAN CEREBRAL CORTEX

Paola Arlotta, Harvard University, USA

17.30-17.40 CLOSING REMARKS