



Developing Brains

7th edition, online conference
hosted at Karolinska Institutet, Stockholm, Sweden

September 1-3, 2020

SPEAKERS:

Claude Desplan

New York University, USA

Chinfei Chen

Harvard Medical School, USA

Sten Linnarsson

Karolinska Institutet, Sweden

Ethan Hughes

University of Colorado School of Medicine, USA

Michelle Southard-Smith

Vanderbilt University Medical Center, USA

Renata Batista-Brito

Albert Einstein College of Medicine, USA

SCIENTIFIC ORGANIZERS, KI:

Gonçalo Castelo-Branco

Jens Hjerling-Leffler

Francois Lallemend

Ulrika Marklund

For registration, please visit: <https://news.ki.se/developing-brains-2020>

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FOREWORD

How can a single cell give rise to complex structures such as the central (brain/spinal cord) and peripheral (including the brain in the gut) nervous systems? This is the over-arching question in neural development; knowing how such intricate structures are assembled gives not only crucial knowledge about these nervous systems, but also important insight to the etiology of some of our most common diseases.

The 7th edition of the KI Conference "Developing Brains" gathers some of the leading scientists working on critical questions ranging from transcriptional heterogeneity of neural cell types, their specification, to myelination and creation of mature neural circuits.

Given the current Covid-19 pandemic, the conference will take place for the first time online. Lectures are scheduled for 1-3 September between 16.00-18.00 CET (Stockholm).

Gonçalo Castelo-Branco, Jens Hjerling-Leffler,
Ulrika Marklund and Francois Lallemend

PROGRAM

1-3 SEPTEMBER 2020

ORGANIZERS

Gonçalo Castelo-Branco

Jens Hjerling-Leffler

Ulrika Marklund

Francois Lallemand

SESSION I: Tuesday, 1st September (CET)

CHAIR: Francois Lallemand, Karolinska Institutet, Stockholm, Sweden

16.00-16.05 Welcoming address and introduction

16.05-17.00 The generation of neural diversity
Claude Desplan, New York University, USA

17.00-17.55 Developmental Plasticity of Thalamic Circuits
Chinfei Chen, Harvard Medical School, USA

SESSION II: Wednesday, 2nd September (CET)

CHAIR: Jens Hjerling-Leffler, Gonçalo Castelo-Branco, Karolinska Institutet, Stockholm, Sweden

16.00-16.05 Introduction

16.05-17.00 Developmental dysfunction of inhibition alters cortical processing
Renata Batista-Brito, Albert Einstein College of Medicine, USA

17.00-17.55 Rethinking Remyelination: Motor learning and Surviving Oligodendrocytes
Ethan Hughes, University of Colorado, USA

SESSION III: Thursday, 3rd September (CET)

CHAIR: Ulrika Marklund, Jens Hjerling-Leffler, Karolinska Institutet, Stockholm, Sweden

16.00-16.05 Introduction

16.05-17.00 Neural Crest Lineages in Visceral Organ Innervation
Michelle Southard-Smith, Vanderbilt University Medical Center, USA

17.00-17.55 Molecular architecture of the developing mouse brain
Sten Linnarsson, Karolinska Institutet, Sweden



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This conference is supported by the Ming Wai Lau Center for Reporative Medicine, Strategic Research Area in Stem Cells and Regenerative Medicine, and Frontier Courses in Neuroscience.

<http://ki.se/en/research/education-in-neuroscience>