Medical Developmental Biology 2019

Karolinska Institutet – University of Toronto – MWLC

Main Venue: Inghesalen, Tomtebodavägen 18A
Monday August 19

08:30   Welcome and Introduction  
Fredrik Lanner, Klas Blomgren, and Ola Hermanson, KI

09:00   Single Cell Genomics and Human Preimplantation Development  
Sophie Petropoulos, KI

09:45   Placenta development and physiology  
Brian Cox, U of T

10:30   Coffee

10:45   BOOSTB4, pre and/or postnatal MSC transplantation to treat  
Osteogenesis Imperfecta  
Cecilia Götherström, KI

11:30   Genome editing of human embryos  
Fredrik Lanner, KI

12:05   Lunch

13:00   Transport to NKS and Huddinge

14:00   GROUP 1 – Visit NKS neonatal division (Ulrika Ådén)  
GROUP 2 – Visit the IVF unit, Huddinge (Linda Savolainen)
Tuesday August 20

09:00  
*Using iPS cells to model human brain development in health and disease*
Anna Falk, KI

09:45  
*Genetic decoding of neurodevelopmental disorders and brain development*
Kristiina Tammimies, KI

10:30  
**Coffee**

10:45  
*Perinatal brain damage*
Ulrika Ådén, KI

11:30  
*Title, TBA*
Evelyn Lambe, U of T

12:15  
**Lunch**

13:00  
*Prenatal programming, epigenetics and transgenerational outcomes*
Stephen Matthews, U of T

17:00  
**Reception**
Canadian Embassy to Sweden, Klarabergsgatan 23
Wednesday August 21

09:00  Expanded-potential stem cells
       Pentao Liu, The University of Hong Kong

09:45  Human immun system development – adapting to the postnatal environment, Petter Brodin

10:30  Coffee

10:45  Immunology of the uterus
       Niklas Björkström, KI

11:30  Pediatric and congenital heart disease
       Yiu-fai Cheung, Queen Mary Hospital, The University of Hong Kong

12:15  Lunch

13:15  Poster session

17:00  Boat trip, “Under the bridges of Stockholm”
Thursday August 22

09:00   *Preterm birth: Mechanisms, diagnostics and therapeutics*
        Stephen Lye, U of T

09:45   *Notch signaling in development and disease*
        Urban Lendahl, KI

10:30   Coffee

10:45   *Imaging technologies*
        Per Uhlén, KI

11:30   *Early metabolic disorders linked to the mitochondria*
        Anna Wredenberg, KI

12:15   Lunch

14:00   GROUP 2 – Visit NKS neonatal unit, Solna
        GROUP 1 – Visit the IVF unit, Huddinge

18:00   Course dinner
Friday August 23

09:00  Injury and repair in the brain  
       Klas Blomgren, KI

09:45  Oligodendrocytes in disease  
       Goncalo Castelo-Branco

10:30  Coffee

10:45  Development and regulation of growth plate cartilage  
       Lars Säfvendahl, KI

11:30  Chromatin modifications and neural development  
       Ola Hermanson, KI

12:15  End of course  
       Ola Hermanson, Fredrik Lanner, Klas Blomgren, KI