



**Karolinska
Institutet**

2nd StratRegen Conference
“Stem cells, regeneration biology and regenerative medicine”
Yasuragi, Stockholm
13 – 14 October 2022

PROGRAM

Day 1

- 08.00 – 08.45 Registration
- 08.50 – 08.55 Welcome address – *Eva Hellström Lindberg*
- 08.55 Yasuragi conference hostess

Session 1. Natural and artificial – *Christian Göritz (Chair)*

- 09.00 – 09.25 Recreating human kidney tissue based on our understanding of kidney development - *Melissa Little, Murdoch Children’s Research Institute and University of Copenhagen (Keynote Speaker)*
- 09.30 – 09.45 Studying human hepatocyte regeneration and plasticity *in vitro* using 3D cell culture models – *Volker Lauschke (Junior StratRegen Awardee)*
- 09.50 – 10.05 Spatial Transcriptomics of a Stem Cell Niche Using DNA Microscopy – *Björn Högberg (Junior StratRegen Awardee)*
- 10.10 – 10.25 Artificial spider silk and potential applications – *Anna Rising (Junior StratRegen Awardee)*
- 10.30 – 11.00 *Coffee break and poster set-up (Coffee/tea, snacks and fruits will be served in the lounge)*

Session 2. Ins and outs – *Eva Hellström Lindberg (Chair)*

- 11.00 – 11.25 Stem Cell Clonality and Niche Influences – *Leonard Zon, Harvard Stem Cell Institute, Harvard Medical School (Keynote Speaker)*
- 11.30 – 11.45 Molecular profiling of chronic myelomonocytic leukemia – *Johanna Ungerstedt (Junior Clinical StratRegen Awardee)*
- 11.50 – 12.05 Gene-edited embryonic stem cell-derived retinal cells for regenerative treatment of macular degeneration – *Anders Kvanta (Senior Clinical StratRegen Awardee)*
- 12.10 – 12.35 Stem Cells and Their Microenvironment – *Elaine Fuchs, Howard Hughes Medical Institute, The Rockefeller University (Keynote Speaker)*
- 12.35 – 13.30 *Lunch buffet (Hasu Restaurant)*

Session 3. Young and old – Sten Eirik Jacobsen (Chair)

- 13.30 – 13.55 Understanding regenerative capacity in animals – *Alejandro Sánchez Alvarado, Stowers Institute for Medical Research (Keynote Speaker)*
- 14.00 – 14.15 Human Cardiac Outflow Tract Cono-Ventricular Progenitors During Cardiogenesis and Congenital Heart Disease – *Makoto Sahara (Junior StratRegen Awardee)*
- 14.20 – 14.35 Towards treatment of diabetes using embryonic stem cells in the eye – *Fredrik Lanner (Junior StratRegen Awardee)*
- 14.40 – 15.05 Epigenetic and metabolic regulation of neural stem cell aging – *Anne Brunet, Stanford University (Keynote Speaker)*
- 15.05 – 16.00 *Coffee break and poster set-up
(Coffee/tea, snacks and fruits will be served in the lounge)*
- 16.00 – 18.00** **Chaired poster session** (with refreshments) – *Fredrik Lanner and Qiaolin Deng (Chairs)*
- 18.00-19.30 *Poster removal
Check-in*
- 19.30 – *Dinner (Hasu restaurant)*

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Day 2

- 07.00 – 08.30 *Breakfast (Hasu restaurant)
Check out*

Session 4. Guts and nerves – Lou Brundin (Chair)

- 08.30 – 08.55 Peripheral nerves and the control of mammalian tissue regeneration - *Freda Miller, University of British Columbia and Hospital for Sick Children, University of Toronto (Keynote Speaker)*
- 09.00 – 09.15 Neuronal subtype diversification in the developing gut – *Ulrika Marklund (Junior StratRegen Awardee)*
- 09.20 – 09.35 Identification of novel cellular and molecular mechanisms promoting intestinal stem cell-mediated tissue regeneration – *Eduardo Villablanca (Junior StratRegen Awardee)*
- 09.40 – 09.55 Neuronal diversity in the peripheral nervous system: development and plasticity – *Francois Lallemand (Junior StratRegen Awardee)*
- 10.00 – 10.30 *Coffee break
(Coffee/tea, snacks and fruits will be served in the lounge)*

Session 5. Growing and re-growing – *András Simon (Chair)*

- 10.30 – 10.55 Maintaining and leveraging epithelial plasticity in development and tissue homeostasis - *Edward E. Morrisey, Penn-CHOP Lung Biology Institute, University of Pennsylvania (Keynote Speaker)*
- 11.00 – 11.15 Acid stripping of platelet HLA class I: from basic studies to clinical use in platelet refractory patients with HLA antibodies – *Petter Höglund (Senior Clinical StratRegen Awardee)*
- 11.20 – 11.35 Redefining the esophageal stem cell niche – *Maria Genander (Junior StratRegen Awardee)*
- 12.10 – 14.00 *Lunch buffet (Hasu restaurant)*
- 14.30 Departure