



StratRegen Conference
“Stem cells, regeneration biology and regenerative medicine”
Yasuragi, Stockholm
18-19 October 2018

PROGRAM

Day 1

08.00 – 09:00 Registration

09.00 – 09.10 Welcome address – *Eva Hellström Lindberg*

Session 1. Molecular regulation of stem cells – Ernest Arenas (Chair)

09.10 – 09.50 Molecular interrogation of lineage transitions in adult neural stem cells at the single cell level - *Ana Martin Villalba, German Cancer Research Center (Keynote Speaker)*

09.50 – 10.05 Regeneration and hematopoiesis of the human liver – *Niklas Björkström (Clinical StratRegen Awardee 2018)*

10.05 – 10.20 Dynamics of cardiac progenitors during hESC differentiation revealed at a single-cell level – *Mimmi Mononen*

10.20 – 10.40 *Coffee break and poster set-up*
(Coffee/tea, snacks and fruits will be served in the lounge)

Session 2. SFO supported infrastructures – Anna Falk (Chair)

10.40 – 11.20 Overview of infrastructures supported by the SFO (6 x 5 minutes + 10 mins questions at the end)

- A pre-clinical and clinical resource of GMP IPS cells for regenerative research – *Anna Falk*
- Clinical grade embryonic stem cells – *Fredrik Lanner*
- 3D imaging of whole tissues: Opening a new window into regenerative medicine – *Per Uhlén*
- MedH Flow Cytometry Facility: Acquisition of BD FACSymphony™ A3 Flow Cytometer – *Petter Woll*
- Establishment of a regulatory support function for the development of Advanced Therapy Medicinal Products (ATMPs) intended for clinical use – *Pontus Blomberg*
- Light sheet technology platform – *Sylvie Le Guyader*

Session 3. Junior StratRegen Awardees – Eva Hellström Lindberg (Chair)

11.20 – 11.35 In vivo drug discovery for induction of β -cell neogenesis – *Olov Andersson (Awardee 2018)*

11.35 – 11.50 A novel stem cell niche in the epiphyseal growth plate – *Andrei Chagin (Awardee 2018)*

11.50 – 13.15. Lunch buffet (Hasu Restaurant) and round table meet the professor discussion with Keynote Speakers: Ana Martin Villalba, Nadia Mercader Huber, Willem E. Fibbe and Alfonso Martinez Arias - Robert Månsson (Chair)

Session 4. Hematopoiesis and cellular therapies in hematology and cancer – Sten-Eirik Jacobsen (Chair)

13.15 – 13.55 Therapeutic Immune Regulation by Mesenchymal Stromal Cells: *Willem E. Fibbe, Leiden University Medical Center (Keynote Speaker)*

13.55 – 14.10 Role of cancer stem cells and their stromal support niche in relapse of acute lymphoblastic leukemia – *Martin Enge (Junior StratRegen Awardee 2017)*

14.10 – 14.25 Development of allogeneic Natural Killer cell-based cancer immunotherapy against myeloid malignancies – *Andreas Björklund (Clinical StratRegen Awardee 2018)*

14.25 – 14.40 A growth factor receptor agonist efficiently activates and promotes therapeutic targeting of quiescent cancer stem cells – *Desmond Wai Loon Chin*

14.45 – 15.15 Coffee break and poster set-up
(Coffee/tea, snacks and fruits will be served in the lounge)

Session 5. Tissue regeneration – András Simon (Chair)

15:15 – 15:20 Yasuragi spavärdinna

15.20 – 16:00 Cellular mechanisms of cardiac regeneration in the zebrafish - *Nadia Mercader Huber, University of Bern (Keynote Speaker)*

16:00 – 16.15 Epigenetic profiling of lineage-biased hematopoietic stem cells - *Sidinh Luc (Junior StratRegen Awardee 2017)*

16.15 – 16.30 Identification of folate receptor 1 as a driver for pancreatic β -cells regeneration – *Christos Karampelias*

16.30 – 18.15 Chaired poster session (with refreshments) – *Fredrik Lanner and Cecilia Götherström (Chairs)* from Research network Tissue and Motion

18.15-19.30 – Poster removal
Check-in and Spa time

19.30 – Dinner/Party (Hasu restaurant)

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Day 2

07:00 – 09.00 Breakfast (Hasu restaurant)
Check out

Session 6. Senior StratRegen Awardees – Eva Hellström Lindberg (Chair)

- 09:00 – 09:25 Identification and characterization of cell lineages in regenerative medicine – *Jonas Frisé*n (Awardee 2017)
09:25 – 09:50 A reprogramming strategy to treat Parkinson's disease – *Ernest Arenas* (Awardee 2018)
09:50 – 10:15 Cellular, molecular and clinical surveillance of clonal hematopoiesis during aging – *Sten Eirik Jacobsen* (Awardee 2018)

10.15 – 10.45 *Coffee break*
(Coffee/tea, snacks and fruits will be served in the lounge)

Session 7. Cellular reprogramming and ES cells – Anna Falk (Chair)

- 10.45 – 11.25 Gastruloids as a PSC based model system for mammalian gastrulation - *Alfonso Martinez Arias, University of Cambridge (Keynote Speaker)*
11.25 – 11.40 Single cell RNA-sequencing of human fetal neural stem cells and human induced pluripotent stem cell derived neural stem cells for evaluation of in vitro cell model systems and study of neurodevelopment – *Matti Lam*
11.40 – 11.55 Single cell RNA-sequencing of human naive, primed and extended pluripotent stem cells – *Sarita Panula*

12:00 - 12.30 Introduction to grant writing discussion – *Eva Hellström Lindberg and Ernest Arenas*

12.30 – 14.00 *Lunch Buffet (Hasu restaurant) and round table discussion for grant writing with Ana Martin Villalba, Nadia Mercader Huber, Sten Eirik Jacobsen, Thomas Perlman and Jonas Frisé*n – *András Simon (Chair)*

14.30 Departure