

13th Annual Norwegian Stem Cell Network Conference

Soria Moria Hotel and Conference Center

14 - 15. September 2016

Day 1: Wednesday 14TH September

Opening

09:45 Welcome

Joel Glover (Norwegian Center for Stem Cell Research, Oslo University Hospital, University of Oslo)

Session I – Genetic and epigenetic regulation of stem cells

10:00 **Rossana Aprigliano**, *PhD student* (NTNU, Barbara Van Loon Lab)

Deciphering the molecular patho-mechanisms of HUWE1 induced X-linked intellectual disability

10:20 **Xiaolin Lin**, *Postdoctoral Fellow* (Oslo University Hospital, Bjørås Lab)

A germline homozygous mutation in human Oxidation Resistance 1 gene cause developmental delay, epilepsy and cerebellar atrophy

10:40 **John Arne Dahl**, *Postdoctoral Fellow* (Oslo University Hospital, Klungland Lab)

Broad histone H3K4me3 domains in mouse oocytes modulate maternal to zygotic transition

11:00 **Kangxuan Jin**, *PhD student* (Oslo University Hospital, Filipczyk Lab)

The Effects of Mettl3 RNA Methyltransferase On Pluripotency Control.

11: 20 – 11:50: Coffee Break & Networking

Session I – continued

11:50 **Pinelopi Koustallaki**, *PhD student* (Akershus University Hospital, Nielsen Lab)

The SMUG1 DNA glycosylase functions in telomere homeostasis

12:10 **Jonas Paulsen**, *Postdoctoral Fellow* (University of Oslo, Collas Lab)

3D organization of the genome

12:30 **Marie Rogne**, *Postdoctoral Fellow* (NCMM, Staerk Lab)

Lamins in the hematopoietic system in health and disease

12:50 – 14.30 Lunch & Networking

Session II – Stem cell reprogramming and gene editing

- 14:30 Ignacio Cuervo, PhD student** (University of Oslo, Eskeland Lab)
CRISPR technology as a tool to study the chromatinome in embryonic stem cells
- 14:50 Xiao Liang, Postdoctoral Fellow** (University of Bergen, Bindoff Lab)
Using pluripotent stem cells (iPSC) to model mitochondrial disease with POLG mutation
- 15:10 Nolwenn Briand, Postdoctoral Fellow** (University of Oslo, Collas Lab)
Functional beige adipocytes from induced pluripotent stem cells
- 15:30 Shadab Abadpour, PhD student** (Oslo University Hospital, Scholz Lab)
Activin A, Exendin-4 and glucose activate human exocrine cells reprogramming to insulin-producing cells

15:50 – 16:30: Coffee Break & Networking

KEYNOTE LECTURE I

- 16:30 Eric Schirmer** (The Wellcome Trust Centre for Cell Biology, University of Edinburgh)
An additional layer of developmental genome regulation through tissue-specific nuclear envelope-gene tethering

PhD and Postdoc Forum gathering

- 17:30 PhD and Postdoc Forum gathering

Day 2: Thursday 15TH September

08:30 Opening

Session III – Cell printing and regenerative medicine

- 08:30 Santosh S. Mathapati**, *Postdoctoral Fellow* (University of Oslo, Sullivan Lab)
Gelatin methacrylate hydrogels for hepatic tissue engineering
- 08:50 Richard Siller**, *Postdoctoral Fellow* (University of Oslo, Sullivan Lab)
Nanotopographical control of human pluripotency
- 09:10 Ahmad Elsebahy**, *PhD student* (University of Bergen, Shaza Idris Lab)
Evaluation of in vitro cytotoxicity of 3D nanocellulose for tissue engineering applications
- 09:30 Paul Gatenholm** (Director of 3D Bioprinting Center, BBV at Biotech Center WWSC Graduate School, Sweden)
3D bioprinting with stem cells - translation from laboratory to clinic

09:50 – 10:30: Coffee Break & Networking

KEYNOTE LECTURE II

- 10:30 Wenmiao Shu** (University of Strathclyde)
3D bioprinting of human pluripotent stem cells for tissue engineering

11:30 – 13:00 Lunch & Networking

The Research Council of Norway

- 13:00 Marianne Klemp**
NFR BEHANDLING: Opportunities for stem cell researchers

KEYNOTE LECTURE III

- 13:30 Boris Chichkov** (Leibniz Universität Hannover)
3D laser printing of scaffolds and living cells

14:30 – 15:00: Coffee Break & Networking

Session IV – Hematopoietic, mesenchymal and epidermal stem cells

15:00 Jinan Behnan, PhD student (University of Oslo, Brinchmann Lab)
Differential propagation of stroma and cancer stem cells dictates tumorigenesis and multipotency

15:20 Judith Staerk, Group Leader (NCMM, Staerk Lab)
Thrombopoietin activates STAT2 and switches to an interferon-like activity in hematopoietic cells containing high JAK2.

15:40 Lorena Arranz, Group Leader (UiT, The Arctic University of Norway)
Novel regulatory mechanisms of haematopoietic stem cells in health and disease

16:00 Samih Saleh Mohammed Ahmed, PhD student (University of Bergen, Shaza Idris Lab)
Differentiation potential of adipose-derived and bone marrow mesenchymal stem cells, in vitro study

16:20 – 16:40: Coffee Break

16:40 Siddharth Shanbhag, PhD student (University of Bergen, Kamal Mustafa Lab)
Growth and osteogenic differentiation of human gingiva-derived mesenchymal stem cells

17:00 Maryam Alizadeh Gharaei, PhD student (University of Bergen, Inge Fristad Lab)
Dental Pulp Cell Derivatives Enhance Endothelial Cell Attachment and Proliferation in vitro

17:20 Meeta Pathak, PhD student (Oslo University Hospital, Moe Lab)
The effect of culture medium and carrier on explant culture of human limbal epithelium: a comparison of ultrastructure, keratin profile and gene expression

17:40 Rok Kosmina, Postdoctoral Fellow (Oslo University Hospital, Jackson Lab)
Hypoxia at 12oC Favors the Maintenance of Undifferentiated Cell Phenotype During Seven Day Storage of Cultured Epidermal Cell Sheets

17:40 Closing Remarks

18:00 – 22.00: Dinner

Best PhD Student Presentation Prize – awarded during dinner