**14th Annual Norwegian Stem Cell Network Conference**

Soria Moria Hotel and Conference Center

30 - 31. October 2017

**Day 1: Monday 30TH October**

**Opening**

**09:45** **Welcome**

**Joel Glover** (Norwegian Center for Stem Cell Research, Oslo University

Hospital, University of Oslo)

**Session I – 3D genome organization**

**10:00 Tharvesh Moideen Liyakat Ali** (PhD student – Collas group)

*Modeling of the human genome in 3 dimensions*

**10:20 Inswasti Cahyani** (Postdoc – Collas group)

*Differential Genome Spatial Organization in Stem Cell and Disease Development*

**10:40 Frida Forsberg** (PhD student – Collas group)

*The synchronization of metabolic pathways by the circadian clock and its influence on chromatin organization*

**11:00 – 11:30 Coffee Break & Networking**

**Session II – *In vitro* neurological disease models**

**11:30 Xiao Liang** (Postdoc – Laurence Bindoff group, UiB, Haukeland Hospital)

*Using induced pluripotent stem cells (iPSCs) to model mitochondrial disease with POLG mutation*

**11:50 Hege Fjerdingstad** (PhD student – Glover group)

*Modeling SCA-14 spinocerebellar ataxia with iPSC-derived neurons*

**12:10 Agata Impellizzeri** (Postdoc – Srdjan Djurovic group, NORMENT, UiO/OUS)

*Modeling psychiatric diseases using iPSC-derived neurons*

**12:30 – 14:30 Lunch & Networking**

**KEYNOTE LECTURE I**

**14:30 Inhyun Park** (Yale University)

*Reprogramming and Rett syndrome*

**Session II – *In vitro* neurological disease models - continued**

**15:30 Aleksandra Aizenshtadt** (Postdoc – Glover group)

*Modeling ALS with iPSC-derived motor neurons*

**15:50 Athina Samara** (Postdoc – Glover group)

*Graphene-based fiber nanocomposites for spontaneous neuronal differentiation of human embryonic stem cells*

**16:10 Martin Falck** (PhD student - Eskeland group)

*Human embryonic stem cells as a model for paracetamol induced epigenetic dysregulation*

**16:30 Safak Caglayan** (Postdoc - Staerk group)

*A human neurodevelopmental model for OPA1 loss-of-function diseases*

**16:50-17:10 Coffee Break & Networking**

**Special Theme Session I – Gene editing**

**17:10** **Eivind Valen** (Department of Informatics, UiB)

*A* *CRISPR future*

**17:40** **Adam Robertson** (Dept of Microbiology, OUS)

*RACeR: Increasing the precision of gene editing*

**18:30-19:30 PhD and Postdoc Forum gathering – Meet the Plenary Speakers**

PhD and Postdoc Forum gathering with Park, Kunath, Valen, Robertson

**19:30 Dinner (for invited speakers staying at Soria Moria)**

**Day 2: Tuesday 31ST October**

**09:00 Opening**

**Session III – Stem cell pluripotency and stem cell regulation**

**09:00 Kangxuan Jin (**PhD student - Filipczyk group)

*An RNA regulatory circuit key to pluripotent cell state traverse*

**09:20 Heba Abdelrazik (**Postdoc – Srdjan Djurovic group, NORMENT, UiO/OUS)

*The orchestrated balance between stem cells and immune cells*

**09:40 Ingrid Egner** (Postdoc – Kristian Gundersen group, Dept of Biosciences, UiO)

*Exercise improves muscle stem cell function in old mice*

**Session IV – Regenerative medicine and 3D cell culture models**

**10:00 Richard Siller (**Postdoc - Sullivan group)

*Directed differentiation of human pluripotent stem cells to hepatocyte like cells in 3D suspension culture*

**10:20 Shadab Abadpour (**PhD student - Scholz group)

*Interleukin-22 reverses human islet dysfunction and apoptosis triggered by hyperglycemia and LIGHT*

**10:40** **Richárd Nagymihály** (PhD student – Petrovski / Moe group)

*Isolation and characterization of stem cells from the corneal stroma*

**11:00 – 11:30 Coffee Break & Networking**

**Session IV – Regenerative medicine and 3D cell culture models (continued)**

**11:30 Rua Nader Al-Modawi** (PhD student – Brinchmann group):

*Multi-pathway protective effects of microRNAs on human chondrocytes- the potential of microRNAs in gene therapy for osteoarthritis*

**11:50 David Kunke** (Postdoc – Brinchmann group)

*Establishing a highly reproducible and robust protocol for differentiation of human ES/iPSCs to chondrocytes*

**12:10 – 14:10 Lunch & Networking**

**KEYNOTE LECTURE II**

**14:10** **Tilo Kunath** (University of Edinburgh)

*Producing midbrain dopaminergic neurons to model and treat Parkinson’s disease*

**Special Theme Session II – Developing next generation stem cell and regenerative medicine platforms**

**15:10 Stefan Krauss** (Dept of Microbiology, OUS)

*Presenting the Center of Excellence “Organ-on-a-Chip”*

**15:40 Håvard Haugen** (Institute of Clinical Dentistry, UiO)

*At the crossroads of biomaterials science and stem cells*

**16:10 Closing Remarks**

**Joel Glover** (Norwegian Center for Stem Cell Research, Oslo University

Hospital, University of Oslo)

**16:30 – 17:00 Coffee (no snacks)**

**17:30 – 22:00 Gala Dinner (pre-registration required)**

**Best PhD Student Presentation Prize will be awarded during dinner**