MONDAY 14th of OCTOBER

OPENING

09.00 Welcome
Joel Glover (Norwegian Center for Stem Cell Research, Oslo Univ. Hospital, Dept. of Physiology, Inst. of Basic Medical Sciences, Univ. of Oslo)

Clinical Session (Session I)
Chair: Morten C. Moe

09.15 Morten C. Moe (Center for Eye Research, Dept. of Ophthalmology, Oslo Univ. Hospital)
Overview of Stem Cell Research at Dep. of Ophthalmology

09.20 Aboulghassem Shahdadfar (Dept. of Ophthalmology, Oslo Univ. Hospital)
Tissue engineering of human corneal endothelium

09.35 Gunnar Kvalheim (Dept. of Cellular Therapy, Oslo Univ. Hospital)
Research and clinical activity on stem cell therapy at Dept. of Cellular Therapy

09.40 Dag Josefsen (Dept. of Cellular Therapy, Oslo Univ. Hospital)
Stromal vascular fraction from adipose tissue as therapy against chronic wounds

09.55 Mohammad Reza Mirlashari (Dept. of Cellular Therapy, Oslo Univ. Hospital)
Hypoxia and adipose derived mesenchymal cells

10.15 – 10.45 Coffee break

10.45 Iver Arne Langmoen (Dept. of Neurosurgery, Vilhelm Magnus Lab, Oslo Univ. Hospital)
Stem cells in the adult human brain

10.50 Wayne Murrell (Dept. of Neurosurgery, Vilhelm Magnus Lab, Oslo Univ. Hospital)
Neural stem cells and tissue repair

11.05 Cecilie Sandberg (Dept. of Neurosurgery, Vilhelm Magnus Lab, Oslo Univ. Hospital)
Transcriptional characterization of stem cells in neurospheres
**Mesenchymal / Blood Session (Session II)**
Chair: Jan E. Brinchmann

**KEYNOTE LECTURE I**

11.20  
Mari Dezawa (*Division of Stem Cell Biology and Histology, Tohoku University Graduate School of Medicine, Japan*)
- Discovery of Muse cells, novel pluripotent stem cells that reside in human mesenchymal tissues: implications for new concepts of regenerative homeostasis and stem cell failure.

12.30 – 14.00  
**Lunch**

14.00  
Jan E. Brinchmann (*Inst. of Immunology, Norwegian Center for Stem Cell Research, Oslo Univ. Hospital*)
- Research in the Brinchmann group

14.05  
Krisztina Szöke (*Inst. of Immunology, Norwegian Center for Stem Cell Research, Oslo Univ. Hospital*)
- Endothelial cells in peripheral blood: are they progenitor cells?

14.20  
Magnus Østgård Olderøy (*Inst. of Immunology, Norwegian Center for Stem Cell Research, Oslo Univ. Hospital*)
- Engineering cartilage tissue architectures in alginate hydrogels with mesenchymal stem cells

14.35  
Jan Øivind Moskaug (*Inst. of Basic Medical Sciences, Dept. of Biochemistry, Univ. of Oslo*)
- Selected aspects of adipose stem cell biology

14.40  
Torunn Rønningen (*Inst. of Basic Medical Sciences, Dept. of Biochemistry, Univ. of Oslo*)
- Epigenetic regulation of inflammatory factors in adipose-derived MSCs exposed to diabetic glucose concentrations

14.55  
Leonardo A. Meza-Zepeda (*Dept. of Tumor Biology, Oslo University Hospital*)
- Presentation of Mesenchymal Biology and Differentiation Group

15.00  
Else Munthe (*Dept. of Tumor Biology, Oslo University Hospital*)
- The role of HMGA2 and let-7 in cancer

15.15  
Anne-Mari Håkelien (*Dept. of Tumor Biology, Oslo University Hospital*)
- The regulatory landscape of osteogenic differentiation

15.30 – 16.00  
**Coffee break**

16.00  
Philippe Collas (*Dept. of Biochemistry, Stem Cell Epigenetics Laboratory, Univ. of Oslo*)
- Presentation of the Stem Cell Epigenetics Laboratory at UiO

16.05  
Eivind Lund (*Dept. of Biochemistry, Stem Cell Epigenetics Laboratory, Univ. of Oslo*)
- Dynamics of interactions of the nuclear envelope with the genome

16.20  
Kristina Ivanauskiene (*Dept. of Biochemistry, Stem Cell Epigenetics Lab, Univ. of Oslo*)
- Deposition of histone variant H3.3 into adipose stem cell chromatin
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.35</td>
<td>Judith Staerk <em>(Centre for Molecular Medicine, Nordic EMBL Partnership, UiO and Dept. of Hematology, Oslo Univ. Hospital)</em></td>
<td>Dept. of Hematology, Oslo Univ. Hospital</td>
<td>Molecular analysis of normal and malignant hematopoietic development</td>
</tr>
<tr>
<td>16.40</td>
<td>Julia-Kristine Madsen-Østerbye <em>(Centre for Molecular Medicine, Nordic EMBL Partnership, UiO)</em></td>
<td>Centre for Molecular Medicine, Nordic EMBL Partnership, UiO</td>
<td>Analysing signatures of cord blood stem cell renewal and differentiation</td>
</tr>
<tr>
<td>16.55</td>
<td>Oksana Rogovchenko <em>(Centre for Molecular Medicine, Nordic EMBL Partnership, UiO)</em></td>
<td>Centre for Molecular Medicine, Nordic EMBL Partnership, UiO</td>
<td>Potential role of SSSCA1 in normal development and blood disorders</td>
</tr>
<tr>
<td>17.10</td>
<td>Berit Løkensgard Strand <em>(Dept. of Biotechnology/Dept. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU))</em></td>
<td>Dept. of Biotechnology/Dept. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU)</td>
<td>Biomaterials for use in tissue engineering</td>
</tr>
<tr>
<td>17.25</td>
<td>Berit Løkensgard Strand <em>(Dept. of Biotechnology/Dept. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU))</em></td>
<td>Dept. of Biotechnology/Dept. of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU)</td>
<td>Biomaterials for use in tissue engineering</td>
</tr>
</tbody>
</table>

**TUESDAY 15th OF OCTOBER**

** Neural Session (Session III)**

**Chair:** Joel Glover

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00</td>
<td>Joel Glover <em>(Norwegian Center for Stem Cell Research, Oslo Univ. Hospital, Dept. of Physiology, Inst. of Basic Medical Sciences, Univ. of Oslo)</em></td>
<td>Norwegian Center for Stem Cell Research, Oslo Univ. Hospital, Dept. of Physiology, Inst. of Basic Medical Sciences, Univ. of Oslo</td>
<td>Creating neurons from stem cells for disease modelling and drug testing</td>
</tr>
<tr>
<td>09.05</td>
<td>Athina Samara <em>(Dept. of Physiology, Inst. of Basic Medical Sciences, Univ. of Oslo)</em></td>
<td>Dept. of Physiology, Inst. of Basic Medical Sciences, Univ. of Oslo</td>
<td>Human embryonic stem cell derived serotonergic neurons</td>
</tr>
</tbody>
</table>

**KEYNOTE LECTURE II**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.20</td>
<td>Ian Duncan <em>(University of Wisconsin, Madison, USA)</em></td>
<td>University of Wisconsin, Madison, USA</td>
<td>How does the natural history of a disease guide stem cell repair strategy?</td>
</tr>
<tr>
<td>10.20</td>
<td>Magnar Bjørås <em>(Dept. of Microbiology, Laboratory for molecular biology, Oslo Univ. Hospital)</em></td>
<td>Dept. of Microbiology, Laboratory for molecular biology, Oslo Univ. Hospital</td>
<td>Impact of oxidative DNA damage repair on neurogenesis</td>
</tr>
<tr>
<td>10.25</td>
<td>Lars Eide <em>(Dept. of Medical Biochemistry, Laboratory of mitochondrial biology, OUS)</em></td>
<td>Dept. of Medical Biochemistry, Laboratory of mitochondrial biology, OUS</td>
<td>Mitochondrial transformation during iPS reprogramming: role of Neil3 DNA glycosylase</td>
</tr>
<tr>
<td>10.40 – 11.00</td>
<td>Coffee break</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pluripotent Session (Session IV)**

**Chair:** Arne Klungland

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00</td>
<td>Arne Klungland <em>(Dept. of Microbiology, Rikshospitalet, Oslo Univ. Hospital)</em></td>
<td>Dept. of Microbiology, Rikshospitalet, Oslo Univ. Hospital</td>
<td>Novel dynamic modification in DNA and RNA; role in stem cell biology?</td>
</tr>
</tbody>
</table>
Norwegian Stem Cell Networking Meeting 2013

**KEYNOTE LECTURE III**

11.20  Lee Wong *(Dept. of Biochemistry and Molecular Biology, Monash University, Australia)*
The maintenance of telomeric chromatin in ES cells

12.30 – 14.00  Lunch

14.00  Gareth Sullivan *(Inst. of Basic Medical Sciences, Dept. of Biochemistry, Univ. of Oslo)*
Reprogramming to disease modeling

14.05  Richard Siller *(Inst. of Basic Medical Sciences, Dept. of Biochemistry, Univ. of Oslo)*
Cellular reprogramming for disease modeling and other applications

14.20  Sebastian Greenhough *(Inst. of Basic Medical Sciences, Dep. of Biochemistry, Univ. of Oslo)*
Small molecule driven hepatocyte differentiation

14.35  Jan Oxholm Gordeladze *(Inst. of Basic Med. Sciences, Dept. of Biochemistry, Univ. of Oslo)*
Key regulatory junctions determine acquired phenotypes

**Cancer Stem Cell Session (Session V)**
Chair: Stefan Krauss

14.50  Stefan Krauss *(Dept. of Microbiology, Cell signaling research group, Oslo Univ. Hospital)*
Tankyrase, a novel druggable biotarget in stemcells and cancer

14.55  Tor Espen Thorvaldsen *(Inst. for Cancer Research, Dept. of Biochemistry, OUS)*
Elucidating mechanisms of tankyrase inhibitor-induced degradation of β-catenin

15.10  Ana Slipicevic *(Dept. of Pathology, Vivi Ann Flørenes, Oslo Univ. Hospital)*
iPSC Based Model of Melanoma Tumorigenesis

15.25 – 15.45  Coffee break / Evaluation of best student speaker

15.45  Anna Golebiewska *(Dept. Of Oncology, Centre Recherche Public de la Santé, Luxembourg)*
Characterization of the Side Population phenotype in human Glioblastoma

16.00  Bjørn Logi Isfoss *(Sykehuset Telemark HF)*
Stem cell markers label several differentiated cell types: an immunohistochemical study of human tissue

16.15 – 16.30  Short break to decide the best student speaker

16.30  Closing remarks & Best Student Speaker award

16.45  End of day II