



# CTERP

CELL TECHNOLOGIES AT THE EDGE: RESEARCH & PRACTICE

# 2016

St. Petersburg, Russia

April 6-8

**Recent Achievements in Stem Cells Research**

**Program**



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**Apr-06**

## **/ Opening Session (White Hall)**

<b>16:00-18:00</b>	<b>Registraton</b>	
<b>18:00-18:15</b>	<b>Dr. Maxim Igelnik</b> , General manager, OPTEC <b>Dr. Alexey Tomilin</b> , Corresponding Member of the Russian Academy of Sciences, Institute of Cytology RAS, St-Petersburg, Russia	Welcome words
<b>18:15-19:00</b>	<b>Keynote lecture</b> <b>Prof. Hans R. Schöler</b> , Max Planck Institute for Molecular Biomedicine, Münster, Germany	Induction of Multi- and Pluripotent Stem Cells

Apr-07

## / Pluripotent Stem Cell Session (White Hall)

<b>Chair:</b>	<b>Prof. Hans R. Schöler</b>	
<b>9:00-9:30</b>	<b>Prof. Joshua Mark Brickman</b> , University of Copenhagen, The Danish Stem Cell Center (DanStem), Copenhagen, Denmark	Self renewal arising from conflict - embryonic stem cell potency and lineage specific transcription
<b>9:30-10:00</b>	<b>Dr. Oleg Serov</b> , Institute of Cytology and Genetics RAS, Novosibirsk, Russia	Alternative expression of the parental genomes in hybrid cells generated by fusion of embryonic stem cells and fibroblasts: reprogramming versus induced differentiation
<b>10:00-10:30</b>	<b>Prof. Sergey Kiselev</b> , Vavilov Institute of General Genetics RAS, Moscow, Russia	Reprogramming accuracy and differentiation potency: towards further clinical applications
<b>10:30-11:00</b>	<b>Dr. Alexey Tomilin</b> , Corresponding Member of the Russian Academy of Sciences, Institute of Cytology RAS, St-Petersburg, Russia	A possible function of the pluripotency gatekeeper Oct4 outside the mammalian germline
<b>11:00-11:20</b>	<b>Coffee break</b> (Oak Hall)	

<b>Chair:</b>	<b>Prof. Joshua Mark Brickman</b>	
<b>11:20-11:50</b>	<b>Dr. Maria Lagarkova</b> , Vavilov Institute of General Genetics RAS, Moscow, Russia	Induced pluripotent stem cells for neurodegenerative diseases modeling and search for therapy
<b>11:50-12:20</b>	<b>Dr. Erdem Dashinimaev</b> , Koltsov Institute of Developmental Biology RAS, Moscow, Russia	Neurons derived from induced pluripotent stem cells of patients with Down syndrome reproduce early stages of Alzheimer's disease in vitro.
<b>12:20-12:40</b>	<b>Dr. Anna Malashicheva</b> , Federal Almazov Medical Research Centre, St-Petersburg, Russia	Use of patient specific stem cells to study impaired signaling in arrhythmogenic right ventricular cardiomyopathy pathogenesis
<b>12:40-13:00</b>	<b>Dr. Elena Demytyeva</b> , Institute of Cytology and Genetics RAS, Novosibirsk, Russia	Modeling long QT syndrome using patient-specific induced pluripotent stem cells
<b>13:00-15:00</b>	<b>Lunch</b> (Palace restaurant) <b>and Palace Tour</b>	

<b>Chair:</b>	<b>Prof. Sergey Kiselev</b>	
<b>15:00-15:30</b>	<b>Dr. Natalia Alenina</b> , Max-Delbruck Center for Molecular Biomedicine, Berlin-Buch, Germany	Pluripotent stem cells and gene targeting in the rat: A challenging species
<b>15:30-16:00</b>	<b>Prof. Marc Turner</b> , Scottish National Blood Transfusion Service and University of Edinburgh, Edinburgh, UK	Challenges in the Establishment of a Global iPSC Bank
<b>16:00-16:15</b>	<b>Dr. Mohan Vemuri</b> , Thermo Fisher Scientific, Frederick, United States	Generation of Dopaminergic Neurons from iPSC for Cell Therapy and Drug Discovery
<b>16:15-16:30</b>	<b>Mr. Mark Lynch</b> , Fluidigm, Paris, France	Differentiation of Human Induced Pluripotent Stem Cells to Neural Progenitor Cells and Neurons
<b>16:30-17:00</b>	Students' talks (10 min each) <b>Ms. Olga Lebedeva</b> , Institute of Molecular Medicine, Moscow, Russia <b>Mr. Alexander Khudyakov</b> , Federal Almazov North-West Medical Research Centre, Institute of Cytology RAS, St-Petersburg, Russia <b>Ms. Anastasia Yunusova</b> , Institute of Cytology and Genetics RAS, Novosibirsk, Russia	
<b>17:00-17:10</b>	<b>Coffee break</b> (Oak Hall)	
<b>17:10-18:15</b>	Poster Session I (Oak Hall)	

Apr-08

## / Adult Stem Cell Session (White Hall)

<b>Chair:</b>	<b>Prof. Wieland B. Huttner</b>	
<b>9:00-9:40</b>	<b>Prof. Wieland B. Huttner</b> , Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany	Neural Stem and Progenitor Cells and Neocortex Expansion in Development and Evolution
<b>9:40-10:20</b>	<b>Prof. Alexander Medvinsky</b> , Centre for Regenerative Medicine, University of Edinburgh, Edinburgh, UK	Embryonic development of the adult haematopoietic system: quantitative analysis and mechanisms
<b>10:20-10:40</b>	<b>Dr. Pavel Makarevich</b> , Moscow State University, Moscow, Russia	Cardiac progenitor cells and their regenerative potential for myocardial infarction
<b>10:40-11:00</b>	<b>Coffee Break</b> (Oak Hall)	
<b>11:00-11:20</b>	<b>Prof. Elena Zagaynova</b> , Nizhny Novgorod State Medical Academy, Nizhny Novgorod, Russia	Genetically encoded sensors and bioimaging technologies for stem cells research
<b>11:20-11:40</b>	<b>Dr. Vadim Kumeiko</b> , Far Eastern Federal University, Vladivostok, Russia	Polyuronate-based hydrogels with different modifications stimulate opposite cell behaviours and can serve as prospective scaffolds for neuroregeneration and tissue engineering
<b>11:40-12:20</b>	Students' talks (10 min each) <b>Mr. Iliia Bozo</b> , Human Stem Cells Institute, Moscow, Russia <b>Mr. Yaroslav Shansky</b> , National Medical Research Radiological Centre, Moscow, Russia <b>Mr. Sergey Koshkin</b> , Institute of Cytology RAS, St-Petersburg, Russia <b>Ms. Julia Fadeeva</b> , Moscow State University, Moscow, Russia	
<b>12:20-13:30</b>	Poster Session II (Oak Hall)	
<b>13:30-14:30</b>	<b>Lunch</b> (Palace restaurant)	

# / Round Table «Stem Cell: from Bench to Clinics» (White Hall)

<b>Chair:</b>	<b>Dr. Natalya Mikhailova</b> <b>Prof. Marc Turner</b>	
<b>14:30-15:00</b>	<b>Prof. Andrey Vasiliev</b> , Koltsov Institute of Developmental Biology RAS, Moscow, Russia	Challenges of regulatory environment of cell technologies in Russian Federation
<b>15:00-15:30</b>	<b>Dr. Jacqueline Barry</b> , Cell and Gene Therapy Catapult, London, UK	Regulatory Requirements for iPS banks generation
<b>15:30-15:55</b>	<b>Dr. Daria Khaltourina</b> , International Longevity Alliance, Moscow, Russia	International Regulation of Cell Therapies: Problems and Perspectives
<b>15:55-16:20</b>	<b>Mr. Igor Topnikov</b> , G.M.Project, Moscow, Russia	Mechanism of GMP production engineering: procedure, mistakes and ways of overcoming them
<b>16:20-16:45</b>	<b>Dr. Ralph Pogge von Strandmann</b> , Sartorius, Cambridge, UK	Cellular therapies, Gene therapies, tissue therapies, vaccinations....which one is best?
<b>16:45-17:10</b>	<b>Dr. Jianan Fu</b> , PAN - Biotech GmbH, Aidenbach, Germany	Serum free media and stem cell culture
<b>17:10-17:35</b>	<b>Prof. Irina Baldueva</b> , N.N. Petrov Research Institute of Oncology, St-Petersburg, Russia	Cell technologies in oncology: regulatory and technological aspects.
<b>17:35</b>	Closing words	

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