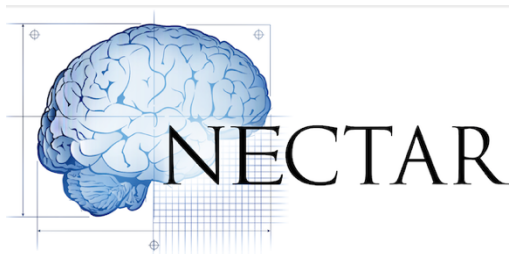


NSC-Reconstruct

Program for NECTAR 2020 virtual event

Day 1: Thursday 19th November

13:00 CET 7:00 am EST 8:00 pm JST	Welcome and opening remarks	Agnete Kirkeby Marina Romero-Ramos Rosemary Fricker
Cell therapy for PD <i>Chair: Agnete Kirkeby</i>		
13:05 – 13:45 CET 7:05 – 7:45 am EST 8:05 – 8:45 pm JST	Clinical trial for Parkinson's disease using iPS cells in Kyoto	Jun Takahashi Kyoto University, Japan
13:45 – 14:25 CET 7:45 – 8:25 am EST 8:45 – 9:25 pm JST	Developing 1 st and 2 nd generation strategies for the transplantation of human PSC-derived dopamine neurons in Parkinson's disease	Lorenz Studer Memorial Sloan Kettering Cancer Center, USA
14:25 – 14:50 CET 8:25 – 8:50 am EST 9:25 – 9:50 pm JST	Datablitz session: "Cell therapy for PD" 1. Single cell transcriptomics reveals DA neuron diversity in hESC organoids 2. 3D graft format for successful transplantation of DA neurons 3. Can hESC-derived dopamine grafts improve non-motor impairments? 4. PET imaging of hfVM-transplanted PD patients from the TransEuro study	Alessandro Fiorenzano Emilie Faggiani Charlotte Bridge Nicholas P. Lao-Kaim
14:50 – 15:10 CET 8:50 – 9:10 am EST 9:50 – 10:10 pm JST	BREAK	
Gene therapy for CNS <i>Chair: Marina Romero-Ramos</i>		
15:10 – 15:50 CET 9:10 – 9:50 am EST 10:10 – 10:50 pm JST	Lysosomal dysfunction in Parkinson's disease: from genetics to the clinic	Pablo Sardi Sanofi, USA
15:50 – 16:30 9:50 – 10:30 am EST 10:50 – 11:30 pm JST	Development of an AAV-based therapy for Parkinson's Disease and AADC deficiency	Krys Bankiewicz Ohio State University, USA
16:30 – 17:00 CET 10:30 – 11:00 am EST 11:30 – 12:00 am JST	Datablitz session: "Novel tools and approaches" 1. Development of a 3D hiPSC scaffold system for spinal cord repair 2. Dynamic calcium imaging to monitor neuronal networks in hiPSCs 3. Electrochemical detection of DA release through optogenetic activation 4. Microglia-secreted factors enhance DA differentiation of stem cells	Cian O' Connor Daniel Tornero Francesco Gubinelli Sissel Schmidt
Breakout discussions with experts <i>Parallel sessions (each attendee chooses one session)</i>		
17:00 – 18:00 CET 11:00 – 12:00 am EST 12:00 – 1:00 am JST	Cell therapies for PD Lorenz Studer and Roger Barker <i>Chair: Tilo Kunath</i>	Treatment strategies for HD Steve Goldman and Anne Rosser <i>Chair: Elena Cattaneo</i>
	Disease progression of PD Per Borghammer and Simon Stott <i>Chair: Poul Henning Jensen</i>	Gene therapy for neurological disorders Pablo Sardi and Krys Bankiewicz <i>Chair: Anders Björklund</i>
18:00 – 18:15 CET 12:00 – 12:15 pm EST 1:00 – 1:15 am JST	NECTAR board meeting	Only for NECTAR board members



Day 2: Friday 20th November

New advances in PD and neurodegenerative disease		
<i>Chair: Emma Lane</i>		
09:30 – 10:10 CET 3:30 – 4:10 am EST 4:30 – 5:10 pm JST	<i>Brain-first and body-first Parkinson's disease - evidence from multimodal imaging studies</i>	Per Borghammer Århus University, Denmark
10:10 – 10:50 CET 4:10 – 4:50 am EST 5:10 – 5:50 pm JST	<i>Nanoscience application to the field of Neurodegenerative disease</i>	Jørgen Kjems Århus University, Denmark
10:50 – 11:20 CET 4:50 – 5:20 am EST 5:50 – 6:20 pm JST	<p style="text-align: center;">Datablitz session: "Disease pathology"</p> <ol style="list-style-type: none"> 1. <i>Rescuing neurite outgrowth in hiPSC-derived PARK2/GBA-mutant neurons</i> 2. <i>The interactions of ApoE and inflammation in hiPSC-derived astrocytes</i> 3. <i>Exercise restores synaptic integrity in a rodent model of Parkinson's disease</i> 4. <i>GDF5 exerts neuroprotection in an α-synuclein rat model of PD</i> 	Helle Bogetofte Sarah McComish Karina Binda Susan Goulding
11:20 – 11:40 CET 5:20 – 5:40 am EST 6:20 – 6:40 pm JST	BREAK	
Cell therapy for HD and other CNS disorders		
<i>Chair: Rosemary Fricker</i>		
11:40 – 12:20 5:40 – 6:20 am EST 6:40 – 7:20 pm JST	<i>Cell therapy for Huntington's Disease: What are the next steps</i>	Anne Rosser Cardiff University, UK
12:20 – 13:00 CET 6:20 – 7:00 am EST 7:20 – 8:00 pm JST	<i>Developing glial-based cell therapies for CNS disorders</i>	Steve Goldman <i>Uni. of Copenhagen, Denmark and Uni. of Rochester, USA</i>
13:00 – 13:30 CET 7:00 – 7:30 am EST 8:00 – 8:30 pm JST	<p style="text-align: center;">Datablitz session: "Advances in HD"</p> <ol style="list-style-type: none"> 1. <i>ScRNA-seq of the human fetal striatum reveals new gene regulatory networks</i> 2. <i>Investigating microglia phenotypes in an hiPSC model of HD</i> 3. <i>Induced neurons from HD patients show impaired autophagy and neuritogenesis</i> 4. <i>Efficient differentiation and in vivo maturation of striatal projection neurons</i> 	Vittoria Bocchi Nina Stöberl Karolina Pircs Dario Besusso
13:30 CET 7:30 am EST 8:30 pm JST	<i>Closing remarks</i>	Agnete Kirkeby, Marina Romero-Ramos, Rosemary Fricker

