

Oral Program

Sunday, September 25, 2016

11:00-14:00	Registration <i>Claremont Lobby</i>
Opening & Session 1 <i>Empire Ballroom</i> <i>Session Chair: Kathrin Plath</i>	
14:00-14:15	Welcome and Introduction
14:15-15:00	Opening Keynote: Recent progress in iPSC Cell research and application Shinya Yamanaka , <i>Kyoto University, Japan; Gladstone Institutes, USA [KEY01]</i>
15:00-15:30	From beating cardiomyocytes to heart disease models: Past, present, future of hiPSC Christine Mummery , <i>Leiden University Medical Centre, The Netherlands; University of Twente, The Netherlands [INV01]</i>
Refreshment break <i>Claremont Ballroom</i>	
16:00-16:30	Small molecule-induced cell fate reprogramming Hongkui Deng , <i>Peking University, China [INV02]</i>
16:30-17:00	Modeling and treating neural disease using human pluripotent stem cells Lorenz Studer , <i>Memorial Sloan Kettering Cancer Center, USA [INV03]</i>
17:00-18:00	Panel on ethical considerations for clinical translation of iPSC research Symposium speakers Shinya Yamanaka , George Daley , Christine Mummery , Lorenz Studer , and Deepak Srivastava , and Bioethicist Hank Greely will be discussing the most pressing ethics issues facing the field as it moves toward the clinic. Discussion topics will range from the ethics of patient and donor consent in iPSC banking and application to medical use of genome-edited iPSC derivatives and lessons from existing approaches in gene and cell therapy.
18:00-19:00	Welcome reception <i>Claremont Ballroom</i>

Monday, September 26, 2016

06.30-07.15	Organized group run with Shinya Yamanaka (sign-up required)
Registration and continental breakfast <i>Claremont Ballroom</i>	
Session 2 <i>Empire Ballroom</i> <i>Session Chair: Deepak Srivastava</i>	
09:00-09:30	Stem cells and reprogramming in development and disease George Q. Daley , <i>Boston Children's Hospital, USA; Harvard Medical School, USA [INV04]</i>
09:30-10:00	How to make a neuron Marius Wernig , <i>Stanford University, USA [INV05]</i>
10:00-10:15	Challenge toward clinical trial for spinal cord injury using iPSC cells H. Okano, <i>Keio University School of Medicine, Japan [ST01]</i>
Refreshment break <i>Claremont Ballroom</i>	
10:45-11:15	A chemical approach to controlling cell fate Sheng Ding , <i>Gladstone Institutes, USA; University of California, San Francisco, USA [INV06]</i>
11:15-11:30	Single cell transcriptomics reveals a deterministic trajectory of cell fate conversion during direct cardiac reprogramming Z. Liu ¹ , L. Wang ¹ , J.D. Welch ¹ , Y. Zhou ¹ , C. Yin ¹ , W. Shen ² , J.F. Prins ¹ , J. Liu ¹ , L. Qian ^{*1} , ¹ <i>University of North Carolina at Chapel Hill, USA, ²University of California Irvine, USA [ST02]</i>
11:30-12:00	Unbiased approaches to generating iPSCs and induced neurons Kristin Baldwin , <i>The Scripps Research Institute, USA [INV07]</i>
12:00-12:15	Using induced pluripotent stem cells to dissect pathways, discover new therapeutics, and develop models for late-onset, sporadic alzheimer's disease. J.E. Young ^{*1,4} , S.A. Small ² , G. Petsko ³ , L.S.B. Goldstein ¹ , ¹ <i>University of California, San Diego, USA, ²Columbia University, USA, ³Weill Cornell Medicine, USA, ⁴University of Washington, USA [ST03]</i>
biotechner Lunch <i>Napa, Monterey, Sonoma Rooms + Meritage Restaurant</i>	
12:15-13:15	Lunch <i>Napa, Monterey, Sonoma Rooms + Meritage Restaurant</i>
13:15-15:00	Poster Session 1 <i>Claremont Ballroom</i>

	Session 3 Empire Ballroom <i>Session Chair: George Daley</i>
15:00-15:30	Crossing xeno-barriers: the hidden dimension of distinct flavors of pluripotency Juan Carlos Izpisua Belmonte , <i>Salk Institute for Biological Studies, USA [INV08]</i>
15:30-16:00	Understanding how the 'Yamanaka' factors achieve the remodeling of the enhancer landscape during reprogramming to pluripotency Kathrin Plath , <i>University of California, Los Angeles, USA [INV09]</i>
16:00-16:30	Refreshment break Claremont Ballroom
16:30-17:00	Induced pluripotent stem cells to enable drug discovery: Getting from there to here Sandra Engle , <i>Vertex Pharmaceuticals Inc., USA [INV10]</i>
17:00-17:15	Therapeutic screenings for mtDNA brain disease with patient-derived neural cells A. Prigione* ¹ , C. Lorenz ¹ , P. Lesimple ² et al, ¹ MDC, Germany, ² Inserm, France [ST04]
17:15-17:45	Production and purification of 1U/300 billion platelets towards development of universal type transfusion products using iPS Cell technology Koji Eto , <i>Kyoto University, Japan [INV11]</i>
19:00-22:00	Meet the speakers dinner (ticket holders only)
Tuesday, September 27, 2016	
08:00-09:00	Registration and continental breakfast Claremont Ballroom
	Session 4 Empire Ballroom <i>Session Chair: Magdalena Götz</i>
09:00-09:30	Establishment of ESC pluripotency in late-stage EpiSCs Hans R. Schöler , <i>Max Planck Institute for Molecular Biomedicine, Germany [INV12]</i>
09:30-10:00	Modeling neurodevelopmental disorders using patient iPSCs Guo-li Ming , <i>Johns Hopkins University, USA [INV13]</i>
10:00-10:15	Novel genomic DNA modification N6-me-dA in mouse ESC and iPSC T. Wu* ¹ , K. Lin ¹ , T. Wang ¹ , Y. Lai ² , M. Seetin ³ , G. Wang ¹ , M. Zhong ¹ , L. Hon ³ , J. Swenberg ² , A. Xiao ¹ et al ¹ Yale Stem Cell Center, USA, ² UNC Chapel Hill, USA, ³ Pacific Bioscience, USA [ST05]
10:15-10:45	Refreshment break Claremont Ballroom
10:45-11:15	Uncovering human somatic cell reprogramming toward pluripotency Kazutoshi Takahashi , <i>Kyoto University, Japan; Gladstone Institutes, USA [INV14]</i>
11:15-11:30	In vivo reprogramming: Reversing Glial scar for brain repair G. Chen, <i>Penn State Univ, USA [ST06]</i>
11:30-11:45	Stage-specific induced pluripotent stem cells delineate a roadmap to myeloid transformation E.P. Papapetrou, <i>Icahn School of Medicine at Mount Sinai, USA [ST07]</i>
11:45-12:15	Advances in modeling ALS using iPSC Cells: From patient phenotypes and stem cell studies to an ongoing clinical trial Kevin Eggan , <i>Harvard University, USA [INV15]</i>
12:15-13:15	Lunch Napa, Monterey, Sonoma Rooms + Meritage Restaurant
13:15-14:45	Poster Session 2 Claremont Ballroom
14:45-15:30	Q&A Session with the Cell Press Editors Empire Ballroom
	Session 5 Empire Ballroom <i>Session Chair: Kristin Baldwin</i>
15:30-16:00	Cellular reprogramming approaches for cardiovascular disease Deepak Srivastava , <i>Gladstone Institutes, USA; University of California, San Francisco, USA [INV16]</i>
16:00-16:30	Mechanisms of neurogenesis and direct neuronal reprogramming Magdalena Götz , <i>Helmholtz Center Munich, Germany; University of Munich, Germany [INV17]</i>
16:30-17:00	Refreshment break Claremont Ballroom
17:00-17:30	Haploid human pluripotent stem cells Nissim Benvenisty , <i>The Hebrew University of Jerusalem, Israel [INV18]</i>
17:30-18:15	Closing Keynote: Stem cells, iPSCs and the study of human development and disease Rudolf Jaenisch , <i>Whitehead Institute for Biomedical Research, USA; Massachusetts Institute of Technology, USA [KEY02]</i>
18:15-18:25	Closing Remarks Empire Ballroom