Oral Program

Sunday, January 28, 2018				
12:00-14:15	Registration Promenade			
14:15-14:30	Welcome and Opening Remarks Jasmine Room			
14:30-17:55	Session 1: Reprogramming Jasmine Room			
14:30-15:10	Chairs: Angelo Azzi and Claes Wahlestedt Feodor Lynen Lecture			
14.30-13.10	[K01] The emerging role of pluripotent stem cells in translational studies of tissue repair: Emphasis on cardiac injury J. Hare, University of Miami Miller School of Medicine, USA			
15:10-15:25	[SL01] Treatment of diabetes and obesity with engineered epidermal stem cells X. Wu ^{*1} , J. Yue ¹ , X. Gou ¹ , C. Li ¹ , B. Wicksteed ² , ¹ University of Chicago, USA, ² University of Illinois at Chicago, USA			
15:25-16:00	[INV01] Nudt21 controls cell fate by connecting alternative polyadenylation to chromatin signaling K. Hochedlinger, Harvard University, USA			
16:00-16:30	Coffee Break Hibiscus Room/Promenade			
16:30-17:05	[INV02] Interspecies organogenesis for generation of autologous, functional organs			
	H. Nakauchi, Stanford University, USA & The University of Tokyo, Japan			
17:05-17:20	[SL02] Viral vector mediated gene editing eliminates the C9ORF72 repeat expansion mutation from induced pluripotent stem cell derived neurons and cerebral brain organoids N.S. Andrade ¹ , R. Esanov ¹ , G.T. Cabrera ² , R.H. Brown ² , M. Benatar ¹ , C. Wahlestedt ¹ , C.			
17:20-17:55	Mueller ² , Z.R. Zeier ^{*1} , ¹ University of Miami, USA, ² University of Massachusetts, USA [INV03] Specification and programming of human primordial germ cells A. Surani, Wellcome Trust Cambridge Research UK Gurdon Institute: University of Cambridge, UK			
17:55-19:00	Welcome Drinks Reception Riverwalk Terrace			
	Monday, January 29, 2018			
09:00-09:15	Welcome from the University of Miami Miller School of Medicine Jasmine Room			
09:15-12:25	Session 2: Differentiating Stem Cells Jasmine RoomSponsored byChairs: Joshua Hare and Jonathan SaxeAgilent			
09:15-09:55	Lifetime Achievement Award [K02] The formation of stem cells from somatic cells by nuclear transfer to eggs J.B. Gurdon, The Wellcome Trust/Cancer Research UK Gurdon Institute: University of Cambridge, UK			
09:55-10:30	[INV04] Generation of atrial and ventricular cardiomyocytes from human pluripotent stem cells S. Protze, McEwen Centre for Regenerative Medicine University Health Network,			
10:30-11:00	Canada Coffee Break Hibiscus Room/Promenade			
11:00-11:35	[INV05] Stem cell approaches to treat Age-Related Macular Degeneration			
11.00-11.00	S. Temple, Neural Stem Cell Institute, USA			
11:35-11:50	[SL03] Designer culture substrates based on laminin E8 fragments for robust expansion and differentiation of human pluripotent stem cells K. Sekiguchi, Osaka University, Japan			
11:50-12:25	[INV06] Mechanisms of quiescence, activation and differentiation in adult			
11.30-12.23	mesenchymal stem cells of the liver C. Kordes, Heinrich Heine Universität, Germany			
12:25-13:55	Lunch and Poster Session 1 Hibiscus Room/Promenade			
12:45-13:45	Workshop: An Army Marches on Its Metabolism in Vitro Sponsored and Delivered by			
	A.D. Henn, BioSpherix, Ltd., USA BioSpherix			

13:55-18:00	Session 3: Hematopoietic Stem Cells Jasmine Room
10.55 14.05	Chairs: Flavia Fontanesi and Antoni Barrientos
13:55-14:35	Special Achievement Award [K03] Normal and neoplastic stem cells
	I.L. Weissman, Stanford University, USA
14:35-14:50	[SL04] Loss of ASXL1 in the bone marrow niche dysregulates hematopoietic stem cell
	fates through RNA polymerase II complex
	P. Zhang*, Y. Guo, H. Yang, S. Chen, M. Xu, F-C. Yang, University of Miami, USA
14:50-15:30	Special Achievement Award
	[K04] Stemness properties in AML: Are they relevant? J. Dick, Princess Margaret Cancer Centre & University of Toronto, Canada
15:30-16:15	Coffee Break and Poster Session 1 Hibiscus Room/Promenade
16:15-16:50	[INV07] Nerves at the forefront of the aging HSC niche and cancer microenvironment
	P.S. Frenette, Albert Einstein College of Medicine, USA
16:50-17:25	[INV08] Building cancer in organoids
17:25-18:00	M. van de Wetering, Hubrecht Institute, The Netherlands [INV09] Bringing mesenchymal stem cells into the clinic
17.23-16.00	K. Le Blanc, Karolinska Institutet, Sweden
19:00-22:00	Conference Dinner (separate ticket required) The Rusty Pelican
	Tuesday, January 30, 2018
09:00-12:05	Session 4: Cancer Stem Cells Jasmine Room
	Chairs: Stephen Nimer and Angelo Azzi [09:00-09:40]
00.00.00.40	Chairs: Kerry Burnstein and Angelo Azzi [09:40-12:05]
09:00-09:40	IUBMB Award [K05] Perturbations in stem cell self-renewal pathways in degenerative disease and
	cancer
	M.F. Clarke, Stanford University, USA
09:40-09:55	[SL05] The role of melanocyte stem cell activation and translocation in melanoma
	development
	H. Moon ¹ , L.R. Donahue ¹ , E. Choi ¹ , P.O. Scumpia ² , W.E. Lowry ² , J.K. Grenier ¹ , J. Zhu ¹ , A.C. White ^{*1} , ¹ Cornell University, USA, ² UCLA, USA
09:55-10:30	[INV10] Regulation of stem cell fate in mammalian epidermis'
	F. Watt, King's College London, UK
10:30-11:00	Coffee Break Hibiscus Room/Promenade
11:00-11:15	[SL06] Lgr5-expressing chief cells drive epithelial regeneration and cancer in the
	oxyntic stomach M. Leushacke ^{*1} , S. Tan ¹ , A. Wong ¹ , Y. Swathi ¹ , A. Hajamohideen ¹ , L. Tan ¹ , J. Goh ¹ , E.
	Wong ¹ , K. Murakami ² , N. Barker ^{1,2} , ¹ A*STAR Institute of Medical Biology, Singapore,
	² Kanazawa University, Japan, ³ The University of Edinburgh, UK
11:15-11:50	[INV11] Fat Cell: Cancer stem cell expansion and increased tumor metastasis
11:50-12:05	J.M. Slingerland, Sylvester Comprehensive Cancer Center, USA [SL07] KSHV tumorigenesis occurs by enviromentally-induced epigenetic adaptation
11.30-12.03	to viral oncogenic gene expression and signaling in pdgfra+ve mesenchymal cancer
	stem cells
	J. Naipauer*, L. Cavallin, S. Rosario, C. Premer, V. Ponzinibbio, D. Salyakina, M. Abba,
10.05 12.25	J. Hare, P. Goldschmidt-Clermont, E. Mesri et al, University of Miami, USA
12:05-13:35 13:35-17:40	Lunch and Poster Session 2 Hibiscus Room/Promenade Session 5: Cell Engineering Jasmine Room
10.00-17.40	Chairs: Guy Howard and Marilyn Glassberg
13:35-14:10	[INV12] Human organs on chips
	D. Ingber, Wyss Institute for Biologically Inspired Engineering at Harvard University &
14.10 14.05	Harvard Medical School & Boston Children's Hospital, USA
14:10-14:25	[SL08] Modular tissue engineering of bone microenvironment for propagating circulating tumor cells
	V. Mayo*, A. Agarwal, R. Cote, S. Rawal, D. Correa, A. Bowles, University of Miami, USA
14:25-14:40	[SL09] Allogeneic mesenchymal stem cells in the treatment of deep second degree
	burns
	A. Candanedo, L. Rodriguez-Menocal, W. Guzman, J. McBride, L. Pizano, N. Namias,
	O. Orozco, C.I. Schulman, E.V. Badiavas*, University of Miami, USA

14:40-15:15	[INV13] Modeling human tumorigenesis de novo reveals an unexpected program of changes			
	C. Eaves, Terry Fox Laboratory, BC Cancer Agency & University of Canada	of British Columbia,		
15:15-16:00				
16:00-16:35	5 [INV14] Disease in a dish concept using iPS cells			
1 / 05 1 / 50	J. Wu, Stanford School of Medicine, USA			
16:35-16:50	[SL10] The role of wnt-signaling and the epigenetic control of liver to transdifferentiation	pancreas		
	S. Ferber ^{*1,2} , I. Meivar-Levy ^{1,2} , H. Cohen ^{1,2} , H. Barash ^{1,2} , A. Har-Zahav Center, Israel, ² Sackler Faculty of Medic, Israel	^{1,2} , ¹ Sheba Medical		
16:50-17:05	[SL11] Benefits of young donor mesenchymal stem cells in the mand lung disease	agement of fibrotic		
	M.K. Glassberg [*] , P. Catanuto, G. Rubio, S. Pereira-Simon, X. Xia, S. El Miami Miller School of Medicine, USA	liot, University of		
17:05-17:40	ngineered cardiac			
	patch			
	J. Zhang, University of Alabama at Birmingham (UAB), USA			
19:00-23:00	Student Party (invite only) Frost Museum of Science			
Wednesday, January 31, 2018				
09:00-12:20	Session 6: Stem Cell and Gene Therapy Clinical Trials Jasmine Roc	om		
	Chairs: Michal Toborek and Claes Wahlestedt			
09:00-09:35	[INV16] Mutant IDH1 downregulates ATM and alters DNA repair in A/			
	T. W. Mak, University of Toronto & Princess Margaret Cancer Centre	& Ontario Cancer		
	Institute, Canada			
09:35-10:10	• • • • •	inherited diseases		
	and cancer	Doffacia University		
	L. Naldini, IRCCS San Raffaele Scientific Institute & Vita-Salute San Italy	Randele University,		
10:10-10:20	Poster Prize Presentation			
10:20-10:50	Coffee Break Hibiscus Room/Promenade			
10:50-11:25 [INV18] Cell based therapies for Parkinson's disease - past, present and fut		and future		
10.00 11.20	R.A. Barker, University of Cambridge, UK			
11:25-11:40	[SL12] Stem Cell Therapy for stroke: Optimal routes of delivery and	therapeutic time-		
	window			
	D. Yavagal, University of Miami Miller School of Medicine, USA			
11:40-12:20	UBMB Award	Sponsored by		
	[K06] Primary immunodeficiencies gene therapy	WILEY		
	M. Cavazzana, Hospital Necker, France			
12:20-12:30	Closing Remarks			
12:30-13:30	Lunch Hibiscus Room/Promenade			
13:30-15:00	Author Workshop: An Introduction to Scholarly Publishing Jasmine Room			

J. Saxe, Scientific Editor, Cell Stem Cell