Day 1 – Thursday, October 18, 2018

Sabin Audi 8:00 – 22:00	
8:00	Registration and Continental Breakfast
9:00	Welcome and Logistics Dr. Margaret Hostetter, BK Rachford Professor, Chief Medical Officer, Chair of Pediatrics, Director, Cincinnati Children's Research Foundation, USA
	Aaron Zorn, Director, CuSTOM, Cincinnati Children's, USA
9:15	Keynote Speaker Kazutoshi Takahashi, Kyoto University, Japan/Gladstone Institute, USA Human Endogenous Retrovirus in Pluripotency
	Session 1: Modeling Development and Disease Sponsored by STEMCELL Technologies, Moderator: Samantha Brugmann, CuSTOM Cincinnati Children's, USA
10:00	Minoru Takasato, RIKEN, BDR, Japan 3-D Kidney Organoids to Model Renal Morphogenesis
10:20	Jason Spence, University of Michigan, USA Interrogating Basal Stem Cell Differentiation in the Human Lung
10:45	Laurent David, University of Nantes, France Pseudo-time Modeling and Time-lapse Imaging Reveals the Dynamics of EPI/TE Specification of Human Preimplantation Development
10:55	Miki Ebisuya, EMBL Barcelona/RIKEN, Japan Human Time vs. Mouse Time in Segmentation Clock Organoids
11:05	Philipp Kramer, STEMCELL Technologies, Canada New Tools for the Generation and Culture of 3D Organoids
11:15	Coffee Break
	Session 2: Biofabrication and Tissue Engineering Sponsored by RIKEN Moderator: Minoru Takasato, RIKEN, Kobe Japan

11:35	Shoji Takeuchi, University of Tokyo, Japan Cell Fiber Technology for 3D Cell Culture
11:55	Rio Sugimura, Kyoto University, Japan Forward Engineering Human Hematopoietic Stem Cell Development
12:15	Jerome Guicheux, Nantes University, France Stem Cells and Biomaterials for the Regenerative Medicine of Intervertebral Disc: "When Tissue Engineers Meet Developmental Biologists"
12:25	Eben Alsberg, Case Western Reserve University, USA Controlling Spatiotemporal Signals in High-Density Culture Systems for Engineering Complex Tissue
12:35	Industry Three Minute Flash Presentations AGC Inc. Nissan Chemical RORZE Lifesciences TamaiKasei Co. LTD
12:50	Lunch, Industry Displays, and Networking Session 3: Frontiers of Bioprinting Technology Sponsored by Cyfuse Moderator: Takanori Takebe, CuSTOM Cincinnati Children's, USA
14:00	Koichi Nakayama, Saga University, Japan Scaffold-free Bio-3D Printing for Solid Organ Fabrication
14:20	Moo-Yeal Lee, Cleveland State University, USA Microarray 3D Bioprinting for Organoid Culture
14:40	Keitaro Matsumoto, Nagasaki University, Japan Artificial Trachea and Esophagus Using Bio-3D Printer "Regenova"
15:00	Yoshihiro Ito, RIKEN, Japan Design of 3D Scaffold by Photo-reactive Biological Macromolecules and Adhesive Growth Factors
15:10	Industry Three Minute Flash Presentations Cyfuse Nacalai Tesque JTEC Corporation

15:30	Coffee Break
	Session 4: Emerging Leaders in Stem Cell and Organoid Medicine, Moderator: Aaron Zorn, CuSTOM Cincinnati Children's, USA
16:00	Kyle Loh, Stanford University, USA A Roadmap for Human Tissue Progenitor Development from Pluripotent Stem Cells
16:20	Jorge Munera, Medical University of South Carolina, USA Co-development of Hemogenic Endothelium in hPSC Derived Colonic Organoids
16:40	Mingxia Gu, Stanford University, USA iPSC Disease Modeling: Toward Therapeutic Discovery
17:00	Jason Tchieu, Memorial Sloan Kettering Institute New York, USA A Multi-culture Platform to Investigate Non-neuronal Contribution to Disease
17:20	Nozomu Takata, Northwestern University, USA Molecular Identification and Cell-type Specific Signatures of Optic Vesicle Primordium at a Single Cell Resolution
18:15	Shuttle 1 to Dinner from Location S, Research Pavilion
18:45	Shuttle 2 to Dinner from Location S, Research Pavilion
18:45	Dinner at American Sign Museum Sponsored by STEMCELL Technologies https://www.americansignmuseum.org

Day 2 – Friday, October 19, 2018

Research Pavilion, Location S, Rooms S1.203-204 8:00 – 19:00		
8:00	Continental Breakfast	
9:00	Keynote Speaker James Wells, CuSTOM, Cincinnati Children's GI Organoids in Development and Disease	
9:45	Discussion Panel: Challenges to Translate iPSC Technology, Sponsored by STEMCELL Technologies Moderator: Jim Wells, USA	
10:30	Coffee Break	
	Session 1: Disease Modeling and Diagnostics Sponsored by Hitachi AP Moderator: Alison Weiss, CuSTOM, University of Cincinnati, USA	
11:00	Cindy Osborn, Food and Drug Administration, USA CMC Consideration in iPSCs Derived Cellular Products	
11:20	Joseph Wu, Stanford University, USA Stem Cells and Genomics for Precision Medicine	
11:40	Meritxell Huch, Gurdon Institute, UK Hepatic Organoids for Understanding Liver Regeneration and Disease	
12:00	Industry Three Minute Flash Presentations Kuraray Ajinomoto Health Nippi/Matrixome Hitachi AP	
12:15	Lunch	
	Session 2: Drug Discovery and Therapeutics Sponsored by bio-techne Moderator: Jorge Bezerra, CuSTOM, Cincinnati Children's, USA	
14:00	Ryuji Morizane, Brigham and Women's Hospital, USA Kidney Organoids	

14:20	Shuibing Chen, Weill Cornell Medicine, USA 3D Colon Organoids-based Disease Modeling and Drug Screening
14:40	Tatiana Karakasheva, University of Pennsylvania, USA Patient-derived Organoids from Diagnostic Biopsies as a Pathway to Personalized Medicine in Esophageal Cancer
14:50	Scott Schachtele, bio-techne, Minneapolis, USA Gaining Access to the Intestinal Epithelium: Converting Organoids to MimEXTM GI
15:00	Coffee Break
	Session 3: Cell and Tissue Therapeutics Sponsored by Thermo Fisher Moderator: Mertixell Huch, Gurdon Institute, UK
15:40	Fumihito Arai, Nagoya University, Japan Micro-nano Mechatronics for Future Organoid Medicine
16:00	Michael Helmrath, CuSTOM, Cincinnati Children's, USA Translating Human Intestinal Organoids (HIOs)
16:20	Kevin D'Amour, Viacyte Inc., San Diego, USA Development of Stem-Cell Derived, Islet Replacement for Type 1 Diabetes
16:40	Takanori Takebe, CuSTOM, Cincinnati Children's, USA Modeling Early Hepatogenesis Using Human iPSC Towards Organoid Medicine
17:00	Robert Horton, Thermo Fisher, USA 3D Cell Culture: Developing Better in Vitro Models for Drug Discovery & Development
17:30	Mixer and Hors d'oeuvres, Location T, 14th Floor Sponsored by STEMCELL Technologies
18:30	Closing Remarks: Dr. Daniel von Allmen, Surgeon-in-Chief, Senior Vice President, Surgical Services, Cincinnati Children's, USA