

Poster Teaser Program

Poster Teaser Session 1

Presentation Date	Presentation Time	Room
Monday, August 26, 2019	10:35–10:45	Sunset Ballroom
<i>These Poster Teaser presentations will also be displayed as posters in Poster Session 1. Posters will be available for viewing in the Sunset Pavilion.</i>		

[PT1.01] Intestinal mesenchymal signals guide regional identity

M. Maimets*¹, M.T. Pedersen¹, M. Thodberg³, J. Guiu¹, A. Sandelin³, K. Jensen^{1,2}, ¹BRIC, University of Copenhagen, Denmark, ²Novo Nordisk Foundation Center for Stem Cell Research, Denmark, ³The Bioinformatic Center, University of Copenhagen, Denmark

[PT1.02] Engineering innervated human gastric organoids to study the development and physiology of the gastric enteric nervous system

A.K. Eicher*^{1,2}, H.M. Berns², N. Sundaram², L.E. Haines², M.A. Helmrath², J.M. Wells², ¹University of Cincinnati, USA, ²Cincinnati Children's Hospital Medical Center, USA

[PT1.03] IL-1 and TNF α contribute to the inflammatory niche to enhance lung regeneration after flu infection

H. Katsura*, Y. Kobayashi, P.R. Tata, B.L.M. Hogan, *Duke University, USA*

[PT1.04] A platform for generation of chamber-specific cardiac tissues and disease modelling

Y. Zhao*¹, N. Rafatian¹, N. Feric^{1,3}, B.J. Cox¹, R. Aschar-Sobbi^{1,3}, E.Y. Wang¹, P. Aggarwal⁴, B. Zhang¹, G. Conant¹, K. Ronaldson-Bouchard^{3,5}, ¹University of Toronto, Canada, ³TARA Biosystems, Inc, USA, ⁴Medical College of Wisconsin, USA, ⁵Columbia University, USA

[PT1.05] Fast and efficient generation of knock-in human organoids using homology-independent CRISPR/Cas9 precision gene editing

D. Hendriks¹, B. Artegiani¹, J. Beumer*¹, R. Kok², I. Joore¹, X. Zheng², S. Tans², J. van Zon², H. Clevers^{1,3}, ¹Hubrecht Institute, The Netherlands, ²FOM Institute AMOLF, The Netherlands, ³The Princess Maxima Center for Pediatric Oncology, The Netherlands

[PT1.06] Synthetic hydrogels identify matrix biochemical and mechanical properties required for renal epithelial cell tubulogenesis

A. Mulero-Russe*¹, R. Cruz-Acuña¹, A. Clark¹, R. Zent², A. García¹, ¹Georgia Institute of Technology, USA, ²Vanderbilt University, USA

[PT1.07] Mechanical forces lead to wrinkling of human brain organoids

E. Karzbrun*¹, O. Reiner², ¹KITP, UCSB, USA, ²Weizmann Institute of Science, Israel

[PT1.08] Controlled hydrogel photodegradation improves colony formation of intestinal organoids

M. Yavitt*^{1,2}, T. Brown^{1,2}, E. Hushka^{1,2}, K. Anseth^{1,2}, ¹University of Colorado Boulder, USA, ²The BioFrontiers Institute, USA

Poster Teaser Session 2

Presentation Date	Presentation Time	Room
Tuesday, August 27, 2019	11:45–11:55	Sunset Ballroom
<p><i>These Poster Teaser presentations will also be displayed as posters in Poster Session 2. Posters will be available for viewing in the Sunset Pavilion.</i></p>		

- [PT2.01] Human intestinal organoids: Transformative tools to study intestinal infections**
S.E. Blutt*, S.E. Crawford, S. Ramani, M.K. Estes, *Baylor College of Medicine, USA*
- [PT2.02] Self-organizing human trunk 3D neuromuscular organoids**
J. Martins*, C. Fischer, P-L. Ruffault, L-C. Kabuß, A. Urzi, C. Birchmeier, S. Sauer, M. Gouti, *Max Delbrück Center for Molecular Medicine, Germany*
- [PT2.03] Modeling adaptive immunity with tonsil organoids**
L. Wagar*, A. Salahudeen¹, C. Constantz¹, M. Lyons¹, V. Mallajosyula¹, J. Adamska^{1,2}, L. Blum^{1,2}, F. Yang¹, K. Jackson³, K. Roltgen¹, ¹*Stanford University, USA*, ²*Veterans Affairs Palo Alto Healthcare System, USA*, ³*Garvan Institute of Medical Research, Australia*
- [PT2.04] In silico modelling confirms developmental waves in human gastruloids are mediated by BMP-WNT interplay**
H. Kaul*, N. Werschler^{2,1}, M. van Leeuwen^{4,1}, M. Bockaj¹, J. Ostblom³, P.W. Zandstra¹, ¹*University of British Columbia, Canada*, ²*University of Waterloo, Canada*, ³*University of Toronto, Canada*, ⁴*University of Amsterdam, The Netherlands*
- [PT2.05] Stable epigenetic variation in intestinal organoids**
S. Gupta*, S. Vinogradova^{1,2}, K. Murata^{1,2}, S. Vigneau^{1,2}, A. Bortvin^{1,2}, R. Shivdasani^{1,2}, A. Gimelbrant^{1,2}, ¹*Dana-Farber Cancer Institute, USA*, ²*Harvard Medical School, USA*
- [PT2.06] Physiochemical control of biliary assembly in natural extracellular matrices**
Q. Smith*, C. Chen², S. Bhatia^{1,3}, ¹*Howard Hughes Medical Institute, USA*, ²*Boston University, USA*, ³*Massachusetts Institute of Technology, USA*
- [PT2.07] Gene correction and defects rescue of Cockayne syndrome derived stem cells by CRISPR/Cas9**
Z.Y. Min*, Y. Yu, *Peking University Third Hospital, China*
- [PT2.08] Long term maturation of human cortical spheroids models post-natal brain development**
A. Gordon*, T. Khan², J. Andersen², A. Pasca¹, S. Pasca², D.H. Geschwind¹, ¹*UCLA, USA*, ²*Stanford, USA*