

The NIH Center for Molecular Studies in Digestive and Liver Diseases  
The Penn/CHOP Center for Digestive, Liver & Pancreatic Medicine  
Abramson Cancer Center Tumor Biology Program  
NCI P01 Mechanisms of Esophageal Carcinogenesis  
Division of Gastroenterology

19<sup>th</sup> Annual NIH Center for Molecular Studies in Digestive and Liver Diseases

***“Technological Advances in the Use of Human Digestive Tissues  
for Basic Science Research”***



Monday, April 15, 2019

National Constitution Center  
Independence Mall, 525 Arch Street  
Philadelphia, Pennsylvania 19106

8:00 am – 8:30 am	<b>REGISTRATION and BREAKFAST</b>
8:30 am – 8:40 am	<b>Opening Remarks:</b> Klaus Kaestner, PhD and Gary Wu, MD
8:40 am	<b>SESSION I: The use of high dimensional profiling technologies in the characterization of the digestive tissues</b>
8:40 am – 9:00 am	Vesselin Tomov, MD, PhD Assistant Professor of Medicine, University of Pennsylvania <i>“Mass Cytometry of isolated lamina propria mononuclear cells”</i>
9:00 am – 9:20 am	Klaus Kaestner, PhD Thomas And Evelyn Suor Butterworth Professor In Genetics, University of Pennsylvania <i>“Imaging mass cytometry of pancreas and intestine – a new tool in the arsenal of GI researchers”</i>
9:20 am – 9:40 am	Kyong-Mi Chang, MD, Associate Dean for Research at the Crescenz VA & Professor of Medicine, University of Pennsylvania <i>“High dimensional view of live in health and disease with image mass cytometry”</i>
9:40 am – 10:00 am	<b>BREAK</b>
10:00 am	<b>SESSION 2: Perpetuating the cellular phenotypes of human digestive tissues in culture</b>
10:00 am – 10:40 am	<b>KETNOTE SPEAKER:</b> Stephen A. Duncan, DPhil Smartstate Chair in Regenerative Medicine, Medical University of South Carolina <i>“A screen Using iPSC-Derived Hepatocytes Reveals NAD+ as a Potential Treatment for mtDNA Depletion Syndrome”</i>
10:40 am – 11:00 am	Edward E. Morrisey, PhD Robinette Foundation Professor of Cardiovascular Medicine, University of Pennsylvania <i>“Cell culture and the iPS Core (CCiC)”</i>
11:00 am – 11:20 am	Hiroshi Nakagawa, MD, PhD Research Associate Professor of Medicine, University of Pennsylvania <i>“3D organoids – approaches to esophageal diseases”</i>
11:20 am – 11:40 am	Tatiana Karakasheva, PhD Postdoctoral Researcher, University of Pennsylvania <i>“3D organoids and personalized medicine”</i>
11:40 am – 1:00 pm	<b>LUNCH and POSTER SESSION</b>
1:00 pm	<b>SESSION 3: The human gut microbiota in health and disease</b>
1:00 pm – 1:40 pm	<b>KETNOTE SPEAKER:</b> Jonathan U. Peled, MD, PhD Assistant Attending, Memorial Sloan Kettering Cancer Center <i>“Gut microbiota injury in allogeneic haematopoietic stem cell transplantation”</i>
1:40 pm – 2:00 pm	Kyle Bittinger, PhD Assistant Professor of Pediatrics, Children’s Hospital of Philadelphia <i>“Integrative multi-omic analysis of infants first microbiota”</i>
2:00 pm	<b>SESSION 4: Opportunities for human biospecimen collection at Penn</b>
2:00 pm – 2:20 pm	Meenakshi Bewtra, MD, MPH Assistant Professor of Medicine, University of Pennsylvania <i>“The IBD Immunology Initiative (I3)”</i>
2:20 pm – 2:40 pm	Gary D. Wu, MD Ferdinand G. Weisbrod Professor in Gastroenterology, University of Pennsylvania <i>“The Penn Center for Nutritional Science and Medicine”</i>
2:40 pm – 3:00 pm	Maayan Levy, PhD Assistant Professor of Microbiology, University of Pennsylvania <i>“Mouse colonoscopy”</i>
3:00 pm – 3:20 pm	James L. Lewis, MD, MSCE Professor of Medicine and Epidemiology, University of Pennsylvania <i>“The PennCHOP Microbiome Program”</i>
3:20 pm – 3:30 pm	<b>Closing Remarks and Poster Awards:</b> Klaus Kaestner, PhD and Gary Wu, MD