

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Endoderm Development and Disease: Cross-Organ Comparison and Interplay (C3)

February 25-March 1, 2018 • Sagebrush Inn & Suites • Taos, New Mexico, USA

Scientific Organizers: Xin Sun, Kat Hadjantonakis and Didier Y. R. Stainier

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 25, 2017 / Abstract Deadline: November 28, 2017 / Discounted Registration Deadline: December 20, 2017

### SUNDAY, FEBRUARY 25

#### Arrival and Registration

### MONDAY, FEBRUARY 26

#### Welcome and Keynote Address

**Hans C. Clevers**, Hubrecht Institute, Netherlands  
*Intestine Stem Cells, Organoids and Regeneration*

#### Specification and Morphogenesis: In the Embryo and the Dish

**Elizabeth J. Robertson**, University of Oxford, UK  
*Endoderm Specification*

**Kat Hadjantonakis**, Sloan Kettering Institute, USA  
*Guts and Gastrulation*

**James M. Wells**, Cincinnati Children's Hospital Research Foundation, USA  
*Intestine Organoids*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1: Endoderm Comes Alive: Imaging Endoderm in Development and Disease

#### Short Talks Chosen from Abstracts

#### Organogenesis: Building a Functional Organ in the Context of the Other Tissues

**Xin Sun**, University of California, San Diego, USA  
*Lung as a Sensory Organ*

**Sarah Knox**, University of California, San Francisco, USA  
*Salivary Gland Development and Repair*

**Lori Sussel**, University of Colorado, USA  
*Pancreas Organogenesis*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### TUESDAY, FEBRUARY 27

#### Stem/Progenitor Cells: Similarities and Differences Across Organs

**Edward E. Morrisey**, University of Pennsylvania, USA  
*Lung Stem Cells, Regeneration and Repair*

**Lucy Erin O'Brien**, Stanford University School of Medicine, USA  
*Collective Dynamics of Drosophila Intestinal Stem Cells*

**Markus Grompe**, Oregon Health & Science University, USA  
*Liver Regeneration*

**Brigid L. M. Hogan**, Duke University Medical Center, USA  
*Talk Title to be Announced*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2: Organoids

#### Short Talks Chosen from Abstracts

#### Genetics and Epigenetics: Homing in on Causality

**Kathryn V. Anderson**, Memorial Sloan-Kettering Cancer Center, USA  
*A Forward Genetic Approach to Endoderm Development*

**Didier Y. R. Stainier**, Max Planck Institute for Heart and Lung Research, Germany  
*Genetics of Endoderm Development and Disease*

**Maike Sander**, University of California, San Diego, USA  
*Pancreas Genomics and Epigenomics*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### WEDNESDAY, FEBRUARY 28

#### Endoderm Organ Function: Physiology, Metabolism and Pathology

**Michael J. Welsh**, University of Iowa, USA  
*Cystic Fibrosis*

**Irene Miguel-Aliaga**, Imperial College London, UK  
*Drosophila Intestine Plasticity and Metabolism*

**Min Han**<sup>†</sup>, University of Colorado, USA  
*Talk Title to be Announced*

**Stephen Liberles**, Harvard Medical School, USA  
*Neuronal Control of Respiration*

#### Short Talk(s) Chosen from Abstracts

#### Endoderm Cancers: Not All Generated Equal

**Matthias Hebrok**, University of California, San Francisco, USA  
*Pancreatic Cancer*

**Vishva M. Dixit**, Genentech, Inc., USA  
*Lung and Pancreatic Cancer*

**Michael M. Shen**, Columbia University, USA  
*Progenitor Cells and the Origin of Prostate Cancer*

#### Short Talk Chosen from Abstracts

#### Poster Session 3

### THURSDAY, MARCH 1

#### Interaction with the Environment: A Part of Life

**Michael J. Holtzman**, Washington University, USA  
*Endoderm Reaction to Infection*

**Karen Guillemin**, University of Oregon, USA  
*Zebrafish as a Model of Endoderm-Pathogen Interactions*

**David J. Hackam**, Johns Hopkins Children's Center, USA  
*TLR4-Mediated Gut-Lung Signaling in Newborn Disease*

**Joseph S. Takahashi**, HHMI/University of Texas Southwestern Medical Center, USA  
*Circadian Rhythm in Endoderm Organs*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 3: Endoderm Crosstalk: Novel Insights from Trainees

#### Short Talks Chosen from Abstracts

#### Endoderm Diseases: Lessons from Development

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**Norbert Perrimon**, Harvard Medical School, USA

*Drosophila as a Model for Endoderm Diseases*

**David D. Moore**, Baylor College of Medicine, USA

*Nuclear Receptor in Liver and Pancreatic Diseases*

**Jeffrey A. Whitsett**, Cincinnati Children's Hospital Medical Center,  
USA

*Developmental Origin of Lung Diseases*

**Meeting Wrap-Up: Outcomes and Future Directions (Organizers)**

**FRIDAY, MARCH 2**

**Departure**