

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Endoderm Lineages in Development and Disease (B2)

February 8-13, 2015 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Lori Sussel, Hans-Willem E. Snoeck, James M. Wells and Aaron M. Zorn

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 7, 2014 / Abstract Deadline: November 11, 2014 / Discounted Registration Deadline: December 8, 2014

SUNDAY, FEBRUARY 8

Registration

MONDAY, FEBRUARY 9

Keynote Address

Brigid L. M. Hogan, Duke University Medical Center, USA
Development, Maintenance and Repair of Organs Derived from Embryonic Foregut Endoderm

Endoderm Formation

Kat Hadjantonakis, Memorial Sloan-Kettering Cancer Center, USA
Cell Dynamics and the Emergence of Endoderm in the Early Mouse Embryo

Ken W.Y. Cho, University of California, Irvine, USA
Gene Regulatory Networks in Early Xenopus Endoderm Formation

Ludovic Vallier, Wellcome Trust Sanger Institute, UK
Pluripotency Factors in Endoderm Specification through Eomesodermin

Short Talk(s) Chosen from Abstracts

Endoderm Patterning

Heiko Lickert, Institute of Diabetes and Regeneration, Germany
Cilia-Mediated Regulation of Endoderm Patterning in the Mouse

Lori Sussel, Columbia University, USA
Induction and Maintenance of Pancreatic Fate

Aaron M. Zorn, Cincinnati Children's Hospital, USA
Mechanisms of Embryonic Endoderm Development and Organ Formation

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 10

Organ Induction

Clare C. Blackburn, University of Edinburgh, UK
Thymus Development and Regeneration

Wellington V. Cardoso, Columbia University Medical Center, USA
Control of Lung Epithelial Morphogenesis and Differentiation

Susan E. Mango, Harvard University, USA
Pharyngeal Development in C. elegans

Elke A. Ober, National Institute for Medical Research, UK
Liver Formation in Zebrafish

Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

Organogenesis

Anne Grapin-Botton, University of Copenhagen, Denmark
Impact of the Cellular and Organ Architecture on Pancreas Cell Fate Choices

Deborah Gumucio, University of Michigan, USA
Making Villi

Edward E. Morrisey, University of Pennsylvania, USA
Molecular Pathways Governing Lung Development

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 11

Regeneration and Postnatal Stem Cells in Endodermal Organs

Ramesh Shivdasani, Dana-Farber Cancer Institute, USA
Mechanisms of Intestinal Stem and Progenitor Cell Renewal

Jason Rock, University of California, San Francisco, USA
Stem Cells in Lung Development and Maintenance

Holger Willenbring, University of California San Francisco, USA
Regeneration of the Liver

Benjamin Ohlstein, Columbia University Medical Center, USA
Regeneration of Endocrine Cells in the Adult Drosophila Gut

Short Talk(s) Chosen from Abstracts

Cancer Stem Cells in Endodermal Organs

Carla F. Kim, Children's Hospital, Boston, USA
Microenvironmental Regulation of Lineage-Specific Lung Stem Cell Differentiation

Noah Shroyer, Cincinnati Children's Hospital, USA
Intestinal Stem Cells and Colon Cancer

Steven D. Leach, Johns Hopkins University, USA
Cellular and Molecular Heterogeneity in Pancreatic Neoplasia

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 12

Generation of Endodermal Organs from Pluripotent Stem Cells

Hans-Willem E. Snoeck, Columbia University Medical Center, USA
Generating Thymic Populations from Human ES/iPS Cells for the Study/Treatment of Autoimmune Diseases

James M. Wells, Cincinnati Children's Hospital Research Foundation, USA
Generating Intestinal Organoids from Human Stem Cell Populations

Valerie Gouon-Evans, Mount Sinai Hospital, USA
Pluripotent Stem Cell-Derived Hepatocytes: From Developmental Discoveries to Clinical Applications

Gordon M. Keller, University Health Network, MaRS Centre, Canada
Development Guides the Directed Differentiation of Endodermal Cell Lineages from Stem Cell Populations

Short Talk(s) Chosen from Abstracts

Workshop 2

Short Talks Chosen from Abstracts

Endoderm Development and Disease

Jeffrey A. Whitsett, Cincinnati Children's Hospital Medical Center, USA
Lung Development and Disease

Didier Y. R. Stainier, Max Planck Institute for Heart and Lung Research, Germany
GI Disease Modeling in Zebrafish

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Ben Z. Stanger, University of Pennsylvania Perelman School of
Medicine, USA
*Tumor as Embryo: Using the Tools of Development to Understand
Cancer Biology*
Short Talk Chosen from Abstracts

FRIDAY, FEBRUARY 13

Departure