

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Tissue Plasticity: Preservation and Alteration of Cellular Identity (EK6)

October 5-7, 2020 • Virtual at your computer • , CO, USA

Scientific Organizers: Ophir Klein, Ramesh A. Shivdasani and Stacey S. Huppert

Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Global Health Travel Award Deadline: October 3, 2020 / Scholarship Deadline: August 31, 2020 / Abstract Deadline: September 14, 2020 / Discounted Registration Deadline:

MONDAY, OCTOBER 5

Keynote Address (8:10am Denver/Mountain Time Start)

***Ophir Klein**, University of California, San Francisco, USA

Magdalena D. Zernicka-Goetz, Caltech and University of Cambridge, UK

Developmental Plasticity, Cell Fate Specification and Morphogenesis in the Early Mouse and Human Embryo

Plasticity in the Early Embryo (8:40am Denver/Mountain Time Start)

***Daniel Klimmeck**, EMBO Journal, Germany

***Ramesh A. Shivdasani**, Dana-Farber Cancer Institute, USA

Angela Nieto, Instituto de Neurociencias de Alicante, CSIC-UMH, Spain

Cell Plasticity in Development and Disease

Aaron M. Zorn, Cincinnati Children's Hospital Medical Center, USA

A Single Cell Road Map of Foregut Progenitors Identity

Tatjana Sauka-Spengler, University of Oxford, UK

Heads or Tails: Differential FoxD3 Autoregulation Controls Developmental Switch Between the Neural Crest and Neuromesodermal Progenitors

Shashank "Sha" Gandhi, California Institute of Technology, USA

Short Talk: Reprogramming Axial Level Identity to Rescue Neural-Crest-Related Congenital Heart Defects

Panel Discussion with Speakers (10:45am Denver/Mountain Time Start)

***Daniel Klimmeck**, EMBO Journal, Germany

***Ramesh A. Shivdasani**, Dana-Farber Cancer Institute, USA

Career Roundtable (12:30pm Denver/Mountain Time Start)

Shingo Kajimura, University of California, San Francisco, USA

Juanita L. Merchant, University of Arizona College of Medicine, USA

Sara Lin, NHLBI, USA

Poster Session 1 (1:30pm Denver/Mountain Time Start)

Tissue Plasticity from Invertebrates to Vertebrates (3pm Denver/Mountain Time Start)

***Misty Riddle**, Harvard Medical School, USA

***Kathleen DelGiorno**, Vanderbilt University, USA

Xin Sun, University of California, San Diego, USA

Fate Choices in Lung Development

Leanne Jones, University of California, Los Angeles, USA

Ablation and Replacement of Fly Stem Cells: Plasticity in the Epithelium

Yingzi Yang, Harvard School of Dental Medicine, USA

Skeletal Stem Cells and GPCR Signaling

Benjamin Ohlstein, UT Southwestern Medical Center, USA

Amitosis and Plasticity

Ophir Klein, University of California, San Francisco, USA

Plasticity and Regeneration in the Intestinal Crypt

Bo Wang, Stanford University, USA

Short Talk: Genetic Chimerism Causes Regeneration Defects in the Planarian

Panel Discussion with Speakers (5:45pm Denver/Mountain Time Start)

***Misty Riddle**, Harvard Medical School, USA

***Kathleen DelGiorno**, Vanderbilt University, USA

TUESDAY, OCTOBER 6

Epigenetics, Transcription and Plasticity (8am Denver/Mountain Time Start)

***Michal Shoshkes-Carmel**, Hebrew University, Israel

***Frederic Michon**, Hopital Saint Eloi, France

Shingo Kajimura, University of California, San Francisco, USA

Molecular Control of Fat and Muscle Plasticity

Valerie Horsley, Yale University, USA

All Aboard: Adipocyte Function in Tissue Repair

Ramesh A. Shivdasani, Dana-Farber Cancer Institute, USA

Tissue Plasticity in a Human Disease: The Enigma of Barrett's Metaplasia

Elena Ezhkova, Icahn School of Medicine at Mount Sinai, USA

Chromatin Regulation of Skin Development and Skin Stem Cells

Emily Zion, Johns Hopkins University, USA

Short Talk: The Role of Histone Inheritance in Establishing Distinct Cell Identities

Farnaz Shamsi, Joslin Diabetes Center, USA

Short Talk: Vascular Smooth Muscle-Derived Adipocyte Progenitors are the Cellular Origin of Cold-Induced Brown Adipocytes

Panel Discussion with Speakers (10:45am Denver/Mountain Time Start)

***Michal Shoshkes-Carmel**, Hebrew University, Israel

***Frederic Michon**, Hopital Saint Eloi, France

Poster Session 2 (1:30pm Denver/Mountain Time Start)

Inflammation, Renewal and Plasticity (3pm Denver/Mountain Time Start)

***Nadya L. Lumelsky**, NIDCR, National Institutes of Health, USA

***Ophir Klein**, University of California, San Francisco, USA

Juanita L. Merchant, University of Arizona College of Medicine, USA

Gut Inflammation in Disease

Indira U. Mysorekar, Washington University School of Medicine, USA

Regulation of Urothelial Plasticity and Regeneration

Stacey S. Huppert, Cincinnati Children's Hospital Medical Center, USA

Hepatic Epithelial Cell Plasticity

Shruti Naik, New York University, USA

Eavesdropping on the Conversation between Immune and Epithelial Stem Cells during Tissue Repair

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Edward E. Morrisey, University of Pennsylvania, USA
Epithelial Plasticity in Development and Tissue Regeneration

Panel Discussion with Speakers (5:45pm Denver/Mountain Time Start)

***Nadya L. Lumelsky**, NIDCR, National Institutes of Health, USA

***Ophir Klein**, University of California, San Francisco, USA

WEDNESDAY, OCTOBER 7

Cancer Stem Cells and Their Niche (8am Denver/Mountain Time Start)

***Jonathan Saxe**, Cell Press, USA

***Stacey S. Huppert**, Cincinnati Children's Hospital Medical Center, USA

Emmanuelle Passegué, Columbia University, USA

How Blood Ages

Valerie M. Weaver, University of California, San Francisco, USA

Role of the Extracellular Matrix in Niche Construction

Jason C. Mills, Washington University, USA

Differentiated Cells Undergo Metaplasia and Tumorigenesis via Paligenosis

Ben Z. Stanger, University of Pennsylvania, USA

EMT and Cellular Plasticity in Cancer

Tianliang Sun, Novartis Institutes for BioMedical Research, Switzerland

Short Talk: The Plasticity of Liver Epithelial Cells during Homeostasis, Regeneration and Tumor Formation

Adam Pietrobon, Ottawa Hospital Research Institute, Canada

Short Talk: Loss of TSC1 or TSC2 Drives Lineage-Infidelity and Hamartoma Formation in a Renal Organoid Model of Angiomyolipoma

Rashmi Mishra, Sanford Burnham Prebys Medical Discovery Institute, USA

Short Talk: Autophagy Drives in vivo Transdifferentiation

Panel Discussion with Speakers (10:35am Denver/Mountain Time Start)

***Jonathan Saxe**, Cell Press, USA

***Stacey S. Huppert**, Cincinnati Children's Hospital Medical Center, USA

Closing Remarks (Organizers)