

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Tissue Plasticity: Preservation and Alteration of Cellular Identity (S5)

October 4-7, 2020 • Doubletree by Hilton - Park City • Park City, UT, USA

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

Supported by the Directors' Fund

Scholarship Deadline: June 24, 2020 / Abstract Deadline: July 8, 2020 / Discounted Registration Deadline: August 5, 2020

SUNDAY, OCTOBER 4

Arrival and Registration

MONDAY, OCTOBER 5

Welcome and Keynote Address

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

Kat Hadjantonakis, Sloan Kettering Institute, USA
Pluripotency and Cell Lineage Commitment in the Early Embryo

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
Talk Title to be Announced

Short Talks Chosen from Abstracts

Tissue Plasticity in Invertebrates and Vertebrates

Benjamin Ohlstein, Columbia University Medical Center, USA
Amitosis and Plasticity

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

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, OCTOBER 6

Epigenetics, Transcription and Plasticity

Shingo Kajimura, University of California, San Francisco, USA
Molecular Control of Fat and Muscle Plasticity

Ramesh A. Shivdasani, Dana-Farber Cancer Institute, USA
Cellular and Chromatin basis for Intestinal Crypt Plasticity

Elena Ezhkova, Icahn School of Medicine at Mount Sinai, USA
Chromatin Regulation of Skin Development and Skin Stem Cells

Short Talks Chosen from Abstracts

Inflammation and Plasticity

Juanita L. Merchant, University of Arizona College of Medicine, USA
Gut Inflammation in Disease

Shruti Naik, New York University, USA
Immune-Tissue Stem Cell Crosstalk in Inflammation and Tissue Regeneration

Valerie Horsley, Yale University, USA

Inflammation and Wound Healing in the Skin

Indira U. Mysorekar, Washington University School of Medicine, USA
Regulation of Urothelial Plasticity and Regeneration

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, OCTOBER 7

Cancer Stem Cells and their Niche

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

Short Talks Chosen from Abstracts

Plasticity and Renewal/Regeneration

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

Liver Regeneration and Plasticity

Michael Collins, NIDCR, National Institutes of Health, USA
Fibrous Dysplasia: Disease Caused by Plasticity

Ophir Klein, University of California, San Francisco, USA
Plasticity of Oral Epithelia

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

Short Talks Chosen from Abstracts

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

THURSDAY, OCTOBER 8

Departure