

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Hematopoiesis (D3)

April 3-7, 2020 • Big Sky Resort • Big Sky, MT, USA

Scientific Organizers: Daniel Starczynowski, Ross L. Levine and Hanna K.A. Mikkola

Sponsored by BioLegend, Inc.

Discounted Abstract & Scholarship Deadline: December 5, 2019 / Abstract Deadline: January 9, 2020 / Discounted Registration Deadline: February 5, 2020

### FRIDAY, APRIL 3

#### Arrival and Registration

### SATURDAY, APRIL 4

#### Welcome and Keynote Address

**Benjamin L. Ebert**, Dana-Farber Cancer Institute, USA  
*Clonal Hematopoiesis in Hematologic Malignancies and Cardiovascular Disease*

#### Microenvironment and Signaling

**Timm Schroeder**, ETH Zürich, Switzerland  
*Long-Term Single-Cell Quantification: New Tools for Old Questions*

**Sean J. Morrison**, University of Texas Southwestern Medical Center, USA  
*Role of the Niche in HSC Regeneration*

**Cristina Lo Celso**, Imperial College London, UK  
*Microenvironmental Regulation of HSC Function*

#### Short Talks Chosen from Abstracts

#### Hematopoiesis during Stress and Aging

**Katherine Y. King**, Baylor College of Medicine, USA  
*Mechanisms of HSC Regulation During Infection*

**Ketan J. Patel**, MRC Laboratory of Molecular Biology, UK  
*Genotoxic Stress and Repair in Stem Cells*

**Jennifer Trowbridge**, The Jackson Laboratory, USA  
*Alterations in Hematopoiesis during Aging*

#### Short Talks Chosen from Abstracts

#### Poster Session 1

### SUNDAY, APRIL 5

#### HSC Biology and Development

**Fernando D. Camargo**, Boston Children's Hospital, USA  
*Assessing HSC Potential in vivo at the Single Cell Level*

**Shannon L. McKinney-Freeman**, St. Jude Children's Research Hospital, USA  
*Cellular and Molecular Regulation of HSC Repopulating Activity*

**Camilla Forsberg**, University of California Santa Cruz, USA  
*Chasing Mavericks: The Quest to Understand Hematopoietic Stem Cell Waves*

**Leonard I. Zon**, HHMI/Boston Children's Hospital, USA  
*Pathways Regulating Hematopoietic Stem Cell Self-Renewal and Migration*

#### Short Talks Chosen from Abstracts

#### Hematologic Malignancies

**Daniel Starczynowski**, Cincinnati Children's Hospital Medical Center, USA  
*Targeting Oncogenic Innate Immune Pathways in Hematologic Malignancies*

**Michael G. Kharas**, Memorial Sloan Kettering Cancer Center, USA  
*RNA Binding Proteins in Leukemia*

**Scott A. Armstrong**, Dana-Farber Cancer Institute, USA  
*Targeting Progenitor Self-Renewal in Leukemia*

#### Short Talks Chosen from Abstracts

#### Poster Session 2

### MONDAY, APRIL 6

#### Transcription and Epigenetics

**Patricia Ernst**, University of Colorado Anschutz Medical Center, USA  
*Epigenetic Regulation in Hematopoiesis and Leukemia*

**Atsushi Iwama**, University of Tokyo, Japan  
*Transcriptional and Epigenetic Networks Governing HSC Transformation*

**Hanna K.A. Mikkola**, University of California, Los Angeles, USA  
*Mechanisms Regulating Human Hematopoietic Stem Cell Specification and Self-Renewal*

**Margaret A. Goodell**, Baylor College of Medicine, USA  
*Clonal Competition Among Hematopoietic Stem Cells*

#### Short Talks Chosen from Abstracts

#### Hematologic Malignancies: Biology and Therapy

#### Speaker to be Announced

**Iannis Aifantis**, New York University School of Medicine, USA  
*RNA Binding Proteins and RNA Modifications as Therapy Targets in Acute Leukemia*

**Ross L. Levine**, Memorial Sloan Kettering Cancer Center, USA  
*Targeted Therapies for MPN*

#### Poster Session 3

### TUESDAY, APRIL 7

#### Single Cell Biology in Normal and Malignant Hematopoiesis

**H. Leighton Grimes**, Cincinnati Children's Hospital Medical Center, USA  
*Transitional States in Hematopoiesis*

**William J. Greenleaf**, Stanford University, USA  
*Single Cell Analysis Maps of Human Hematopoiesis*

**Ido Amit**, Weizmann Institute, Israel  
*The Regulatory Code of Hematopoiesis at the Single Cell Level*

#### Short Talks Chosen from Abstracts

#### Emerging Therapeutic Paradigms in Hematologic Malignancies

**Kyle J. MacBeth**, Celgene Corporation, USA  
*Exploiting the Ubiquitin-Degradation System as a Target in MDS and AML*

**Katharine Yen**, Auron Therapeutics, USA  
*Targeting IDH in Leukemia*

**Mark P. Chao**, Forty Seven Inc., USA  
*Therapeutic Targeting of CD47, a Macrophage Checkpoint, in Malignant Hematopoiesis*

**Catriona H.M. Jamieson**, University of California, San Diego, USA  
*Innate Immune Deaminases Fuel Pre-Leukemia Stem Cell Malignant Transformation*

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

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**WEDNESDAY, APRIL 8**

**Departure**