

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