**WEDNESDAY, APRIL 21**

**Welcome and Keynote Address (8am Denver/Mountain Time Start)**

*Daniel Starczynowski*, Cincinnati Children's Hospital Medical Center, USA  
*Benjamin L. Ebert*, Dana-Farber Cancer Institute, USA  
**Clonal Hematopoiesis in Hematologic Malignancies and Cardiovascular Disease**

**Hematopoiesis during Stress and Aging (8:40am Denver/Mountain Time Start)**

*Ido Amit*, Weizmann Institute, Israel  
**The Power of ONE: Immunology in the Age of Single Cell Genomics**  
*Katherine Y. King*, Baylor College of Medicine, USA  
**Infection Is a Driver of Dnmt3a-Mutant Clonal Hematopoiesis**  
*Jennifer Trowbridge*, The Jackson Laboratory, USA  
**Microenvironmental Regulation of HSC Aging**  
*H. Leighton Grimes*, Cincinnati Children’s Hospital Medical Center, USA  
**Transitional States in Hematopoiesis**

**Short Talk: Prenatal Inflammation Perturbs Fetal Hematopoiesis and Causes Persistent Changes to Postnatal Immunity**  
*Anna E. Beaudin*, 275.00  
*Serine Avagyan*, 275.00  
**Short Talk: Clonal Hematopoiesis Results from the Response of Stem and Progenitor Cells to Inflammatory Cues from Mutant Mature Cells**

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

*Fernando D. Camargo*, Boston Children's Hospital, USA  
*Hanna K.A. Mikkola*, University of California, Los Angeles, USA  
*Daniel Starczynowski*, Cincinnati Children’s Hospital Medical Center, USA  
**Assessing HSC Potential in vivo at the Single Cell Level**  
**Ontogeny of the Hematopoietic Hierarchy**  
**Chasing Mavericks: The Quest to Understand Hematopoietic Stem Cell Waves**  
*Leonard I. Zon*, HHMI/Boston Children’s Hospital, USA  
**Embryonic Macrophage-Hematopoietic Stem Cell Interactions Determine Adult**

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

*Kateri Ann Moore*, Ichsan School of Medicine at Mount Sinai, USA  
*Timm Schroeder*, ETH Zürich, Switzerland  
**Long-Term Single-Cell Quantification: New Tools for Old Questions**  
*Cristina Lo Celso*, Imperial College London; Sir Francis Crick Institute, UK  
**Microenvironmental Regulation of HSC Function**  
*Sean J. Morrison*, University of Texas Southwestern Medical Center, USA  
**Niche Biology: Beyond Growth Factors**  
*Sisi Chen*, 275.00  
**Short Talk: Altered LZTR1 and RIT1 Signaling Drive Clonal Hematopoietic Transformation**

**Adil Rasheed**, 150.00  
**Short Talk: Mixed Lineage Kinase Domain-Like Protein (MLKL) Maintains the Splenic Microenvironment to Restrict Hematopoiesis During Atherosclerosis**

**Anthony D. Ho**, 275.00  
**Short Talk: Hematopoietic Stem Cells with Elevated Central Carbon Metabolism Drive the Aging Process and Harbor Clonal Hematopoiesis**

**Christina Marie Termeni**, 275.00  
**Short Talk: Semaphorin 3A Controls Bone Marrow Vascular Regeneration and Hematopoietic Reconstitution**

**Zanshé Thompson**, 150.00  
**Short Talk: Ing4 Suppresses Quiescence and Inflammation in Hematopoietic Stem Cells**

**Melissa A. Meyer**, 275.00  
**Short Talk: Discovery of a Neutrophil Subset with B Cell Features and the Ability to Modulate CD4+ T Cells**

**THURSDAY, APRIL 22**

**HSC Biology and Development (8am Denver/Mountain Time Start)**

*Hanna K.A. Mikkola*, University of California, Los Angeles, USA  
*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  
**Ontogeny of the Hematopoietic Hierarchy**

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

**Leonard J. Zon**, HHMI/Boston Children's Hospital, USA  
**Embryonic Macrophage-Hematopoietic Stem Cell Interactions Determine Adult**

**Catherine S. Rhee**, 275.00  
**Short Talk: Rigidly of Cell Fate and Function among Monocytes**

**Grant Rowe**, 275.00  
**Short Talk: Hematopoiesis at Single Cell Resolution Spanning Human Development and Maturation**

**YeEun Kim**, Stanford, USA  
**Short Talk: A Highly Multiplexed Single Cell Proteomic Screen Reveals the Phenotypic and Functional Landscape of the Human Lympho-Myeloid Differentiation Axis**

**Bianca A. Ulloa**, Albert Einstein College of Medicine, USA  
**Short Talk: Definitive Hematopoietic Stem Cells Minimally Contribute to Embryonic Hematopoiesis**

**Hiromitsu Nakauchi**, Stanford University, USA  
**Short Talk: Selective Expansion of Human HSCs in Cytokine-Free Chemically-Defined Medium**

**Meet the Editors (12:30pm Denver/Mountain Time Start)**

*Daniel Klimmeck*, EMBO Journal, Germany  
*Valerie Kouskoff*, University of Manchester, UK  
*Eric T. Sawey*, Journal of Experimental Medicine (JEM), USA
Swapnika Ramu, Cell Press, USA
Tanya Bondar, Blood Cancer Discovery of the American Association for Cancer Research, USA

**Hematologic Malignancies (3pm Denver/Mountain Time Start)**

*Daniel Starczynowski*, Cincinnati Children’s Hospital Medical Center, USA
Adaptive Response of MDS Cells to the Inflammatory Milieu
Contributes to Sustained Myeloid Expansion and a Competitive Advantage

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

Iannis Aifantis, New York University School of Medicine, USA
RNA Binding Proteins as Regulators of Myeloid Leukemia Growth and Self-Renewal

*Ross L. Levine*, Memorial Sloan Kettering Cancer Center, USA
Role of Mutations in Epigenetic Regulators in Clonal Hematopoiesis and Evolution to AML

Anna-Katharina Wirth, Helmholtz Zentrum Munich, Germany
Short Talk: Modelling Acquired Treatment Resistance in PDX ALL in vivo Reveals Identical Therapeutic Targets Regardless of Diverse Genomic Alterations

Gaurav S. Choudhary, 275.00
Short Talk: SF3B1 Mutations Induce Oncogenic IRAK4 Isoforms and Activate Targetable Innate Immune Pathways in MDS and AML

Jing Fang, 275.00
Short Talk: Dissect the Function of GPR68 in Acute Myeloid Leukemia and Hematopoietic Stem Cells

Amitava Sengupta, Indian Institute of Chemical Biology, India
Short Talk: Polybromo SWI/SNF Integrates Chromatin Remodeling & BMP/TGF-β Signaling to Determine Mesenchymal Stromal Osteolineage Commitment and Hematopoiesis

**FRIDAY, APRIL 23**

Hematologic Malignancies: Biology and Therapy (8am Denver/Mountain Time Start)

*Ravi Majeti*, Stanford University, USA
Reprogramming B-ALL into APCs for Cancer Vaccination

Kate Yen, Auron Therapeutics, USA
Differentiation Therapy in AML

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

Melvin Edward Thomas III, 150.00
Short Talk: Germline Mutations in SAMD9 and SAMD9L Impair Hematopoietic Cell Function

Panagiotis Ntziachristos, 275.00
Short Talk: Characterizing Mechanisms Controlling Aberrant Spliceosome Levels and Its Impact on Therapy Response in Acute Lymphoblastic Leukemia

Elvin Wagenblast, University Health Network, Princess Margaret Cancer Centre, Canada
Short Talk: Mapping the Cellular Origin and Developmental Context of Myeloid Leukemia in Down Syndrome

Liping Li, Johns Hopkins University, USA
Short Talk: High Mobility Group A1 Chromatin Remodeling Proteins Drive Progression in Myeloproliferative Neoplasms through Epigenetic Rewiring to Induce GATA2 and Cell Cycle Progression

Shailaja Hegde, 275.00
Short Talk: Cell Basal Polarity Complex Scribble Is Required for Leukemic Initiation and Propagation through Negative Regulation of Apical Polarity Complex Activator Cdc42 and Hypoxia Inducing Factor-1α

Michael E. Lawler, Thomas Jefferson University, USA
Short Talk: Interrogation of TLR2 Inflammatory Signaling in AML

**Networking Lounge (1:30pm Denver/Mountain Time Start)**

Transcription and Epigenetics (3pm Denver/Mountain Time Start)

*Atsushi Iwama*, University of Tokyo, Japan
Chromatin Accessibility in MDS Stem and Progenitor Cells

Patricia Ernst, University of Colorado Anschutz Medical Center, USA
MLL1 Levels and Activity Influence Hematopoietic Development

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

Vikram R. Paralkar, University of Pennsylvania, USA
Short Talk: An Atlas of Hematopoietic Transcription Factor Binding to Ribosomal DNA Reveals a Role for CEBPA in Regulation of rRNA Transcription

Maxim Pimkin, 275.00
Short Talk: A Combinatorial Transcriptional Mechanism of Immune Escape in AML

Xiaotian Zhang, 275.00
Short Talk: 3D Genomics Analysis in Acute Myeloid Leukemia Reveals the Activation of the Homeobox Genes Driven Leukemic-Specific 3D Network