Blood disorders: models, mechanisms and therapies
Provisional programme

Sunday 29 September 2019

09:00  Registration & coffee

10:00  Welcome – Monica Justice (Editor-in-Chief, Disease Models & Mechanisms)

Blood development: mechanisms and pathology

10:15  Nancy Speck - University of Pennsylvania, USA
       TBC

10:45  George Daley - Harvard Medical School, USA
       Blood from a Petri dish

11:15  Short talk 1 (selected from abstracts)

11:30  Short talk 2 (selected from abstracts)

11:45  Short talk 3 (selected from abstracts)

12:00  Lunch

13:00  Trista North - Harvard University, USA
       Extrinsic regulation of vertebrate hematopoietic stem cell formation

13:30  David Traver - University of California, San Diego, USA
       TBC

Epigenetic regulation of blood development

14:00  Maria Figueroa - University of Miami, USA
       Epigenetic deregulation in aging HSC: clues to the pathogenesis of AML and MDS

14:30  Merav Socolovsky - University of Massachusetts Medical School, USA
       The early hematopoietic and erythroid hierarchies through the lens of single-cell RNA-seq

14:45  Coffee break & group photo

15:30  Margaret Goodell - Baylor College of Medicine, USA
       Mechanisms of HSC competition leading to clonal hematopoiesis
**Erythropoiesis and red cell disorders**

16:00  **Stuart Orkin** - Dana-Farber Cancer Institute, USA
       TBC

16:30  **Vijay Sankaran** - Harvard Stem Cell Institute, USA
       Genetic insights into human hematopoiesis in health and disease

17:00  **Poster session with drinks and hors d’oeuvres**

19:00  Depart

---

**Monday 30 September 2019**

09:00  **Giuliana Ferrari** - San Raffaele University Medical School, Italy
       Gene therapy for transfusion dependent beta-thalassemia: a lesson from patients

**Targeting blood cancers**

09:30  **Paresh Vyas** - University of Oxford, UK
       Mechanisms of initiation and transformation in Acute Myeloid Leukaemia

10:00  Short talk 4 (selected from abstracts)

10:15  Short talk 5 (selected from abstracts)

10:30  Coffee break

11:00  **Kimberly Stegmaier** - Dana-Farber Cancer Institute, USA
       Application of functional genomic screens to discover new therapeutic targets in AML

11:30  **Scott Armstrong** - Dana-Farber Cancer Institute, USA
       Targeting epigenetic mechanisms in leukemia

12:00  Short talk 6 (selected from abstracts)

12:15  Short talk 7 (selected from abstracts)

12:30  Lunch

13:30  Panel discussion

15:00  Coffee break

15:30  **John Dick** - University Health Network, Canada
       Fate regulation of human LT-HSC: insights from epigenetics
Clonal hematopoiesis

16:00  **Ben Ebert** - Brigham and Women’s Institute, USA
       Genetics and biology of clonal hematopoiesis

16:30  **Neal Young** - National Institutes of Health, USA
       Animal models of immune marrow failure

17:00  Short talk 8 (selected from abstracts)

17:15  Posters and pre-dinner drinks

19:00  Conference dinner

Tuesday 1 October 2019

09:00  **Peter Campbell** - Wellcome Trust Sanger Institute, UK
       Somatic mutations in normal blood cells

09:30  **Fernando Camargo** - Boston Children’s Hospital, USA
       Lineage, fate and heterogeneity in native hematopoiesis

Manipulating the stem cell niche

10:00  **Emmanuelle Passegué** - Columbia University Medical Center, USA
       Hematopoietic stem cell in stress, disease and aging

10:30  Coffee

11:00  Short talk 9 (selected from abstracts)

11:15  **Tannishtha Reya** - University of California, San Diego, USA
       Stem cell signals in cancer heterogeneity and therapy resistance

11:45  **Leonard Zon** - Harvard University, USA
       Pathways regulating hematopoietic stem cell self-renewal and migration

12:15  Meeting overview

12:30  Lunch

13:30  Depart