# 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	<b>Nancy Speck -</b> University of Pennsylvania, USA TBC
	10:45	<b>George Daley -</b> 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	<b>Trista North -</b> Harvard University, USA Extrinsic regulation of vertebrate hematopoietic stem cell formation
	13:30	<b>David Traver -</b> University of California, San Diego, USA TBC

# **Epigenetic regulation of blood development**

14:00	<b>Maria Figueroa -</b> University of Miami, USA Epigenetic deregulation in aging HSC: clues to the pathogenesis of AML and MDS
14:30	<b>Merav Socolovsky -</b> University of Massachusetts Medical School, USA The early hematopoietic and erythroid hierarchies through the lens of single-cell RNA-seq
1 1.15	Coffee breek S group photo

- 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

**Disease Models** 

& Mechanisms

- 12:15 Meeting overview
- 12:30 Lunch
- 13:30 Depart

