

# HEMATOPOIETIC STEM CELLS: BIOLOGY, DISEASE, AND THERAPY

TUESDAY, MARCH 9, 2021 ♦ 10 AM- 5 PM EST

## Schedule

**10:00-10:05** **Welcome**  
Ken Zaret, PhD, IRM Director  
Ivan Maillard, MD, PhD, IRM Hematopoietic Stem Cell Program Co-Director

**10:05- 11:05** **Keynote: Sean Morrison, PhD (University of Texas Southwestern)**  
*Stem cell niche regulation: beyond growth factors*

**Session 1** **Hematopoietic Stem Cell Biology**  
*Chair: Vikram Paralkar, MD*

**11:05-11:35** **Jeff Magee, MD, PhD (Washington University)**  
*Neonatal HSC ontogeny and the origins of pediatric AML*

**11:35-12:05** **Daniel Lucas, PhD (Cincinnati Children's Hospital)**  
*Spatial organization and local regulation of hematopoiesis*

**12:05-12:35** **Camilla Forsberg, PhD (UC Santa Cruz)**  
*Blood for life*

**12:35-12:45** **Trainee Lightning Talks**

**12:45- 1:45** **Lunch Break and Poster Session**

**Session 2** **Bone Marrow Failure Syndromes**  
*Chair: Peter Kurre, MD*



**1:45-2:15** **Vijay Sankaran, MD, PhD (Boston Children's Hospital)**  
*Genetic studies of human hematopoietic stem cells*

**2:15-2:45** **Akiko Shimamura, MD, PhD (Boston Children's Hospital)**  
*Mechanisms of clonal evolution in bone marrow failure*

**2:45-3:15** **Daria Babushok, MD, PhD (University of Pennsylvania)**  
*Mechanisms of immune-mediated bone marrow failure*

**3:15-3:30** **Break**

**Session 3** **Hematopoietic Stem Cell-based Gene Therapy**  
*Chair: Wei Tong, PhD, IRM Hematopoietic Stem Cell Program Co-Director*



**3:30-4:00** **Paula Rio, PhD (CIEMAT/CIBERER-ISCIII, Madrid)**  
*Gene therapy for Fanconi anemia*

**4:00-4:30** **Saar Gill, MD, PhD (University of Pennsylvania)**  
*Genetic engineering of human HSCs to induce vulnerabilities to immunotherapy*

**4:30-5:00** **Stefano Rivella, PhD (Children's Hospital of Philadelphia)**  
*Gene therapy using HSC: successes and challenges*

**5:00** **Closing Remarks**  
*Wei Tong, PhD, IRM Hematopoietic Stem Cell Program Co-Director*