

Hematopoietic Stem Cell and Myelodysplastic Syndromes (MDS) Symposium

May 21-22
2025

Hickey Auditorium, Floor 11
1515 Holcombe Street
Houston, TX 77030

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May 21

Time	Talk Title	Speaker
8:30 a.m.	Welcome	Simona Colla, PhD - Course Director The University of Texas MD Anderson Cancer Center Houston, Texas
New Advances in Understanding the Hematopoietic System Section Moderator: Simona Colla, PhD		
8:40 a.m.	Section Introduction	Simona Colla, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
8:45 a.m.	Keynote - What Makes a Stem Cell a Stem Cell and How Does it go Bad?	John Dick, PhD, FRS Princess Margaret Cancer Centre/ University Health Network Toronto, Ontario, Canada
9:30 a.m.	Hematopoietic Stem Cells in Stress, Disease and Aging	Emmanuelle Passegué, PhD Columbia University Irving Medical Center New York, New York
9:45 a.m.	The Stem Cell Niche and Implications for Clinical Transplantation	Sean Morrison, PhD The University of Texas Southwestern Medical Center Dallas, Texas
10 a.m.	Response and Resistance of Leukemic Stem Cells to Venetoclax	Andreas Trumpp HI-STEM gGmbH and German Cancer Research Center Heidelberg, Germany
10:15 a.m.	Discussion: New Advances in Understanding the Hematopoietic System Section Speakers	
10:30 a.m.	Break and Exhibits	
Hematopoiesis Under Other Stress Section Moderator: Simona Colla, PhD		
10:45 a.m.	Section Introduction	Simona Colla, PhD The University of Texas MD Anderson Cancer Center Houston, Texas



Time	Talk Title	Speaker
10:50 a.m.	Keynote - Telomeres & Telomerase in Cancer & Aging	Ronald A. DePinho, MD The University of Texas MD Anderson Cancer Center Houston, Texas
11:35 a.m.	Pre-Malignant Programming of HSCs During Aging	Dr. Michael Milsom HI-STEM and DKFZ Heidelberg, Germany
11:50 a.m.	Chaperone-Mediated Autophagy Drives Resistance to Azacytidine and Venetoclax in Leukemic Stem Cells	Britta Will, PhD Albert Einstein College of Medicine New York, Bronx
12:05 p.m.	Maladaptive Somatic Mutations in Telomere Biology Disorders	Simona Colla, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
12:20 p.m.	Post-transcriptional Regulation of ncRNA Stability: A Central Modulator of Hematopoietic Development and Disease	Luis Batista, PhD Washington University St. Louis, Missouri
12:35 p.m	Discussion: Hematopoiesis Under Other Stress Section Speakers	
12:50 p.m.	Lunch and Exhibits	
Hematopoiesis and Inflammation Section Moderator: Vera Adema, PhD		
1:50 p.m.	Section introduction	Vera Adema, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
1:55 p.m.	Microbiota Regulation of Hematopoiesis	Katherine Yudeh King, MD, PhD Baylor College of Medicine Houston, Texas



Time	Talk Title	Speaker
2:10 p.m.	Intersections Between Inflammation and Metabolism in Myeloid Pathogenesis	Eric M Pietras, PhD University of Colorado Anschutz Medical Campus Aurora, Colorado
2:25 p.m.	Inflammation and MDS	Amit Verma, MD Montefiore Einstein Comprehensive Cancer Center Bronx New York
2:40 p.m.	How do TET2 Mutations Confer Clonal Fitness?	Eirini Papapetrou, MD, PhD Icahn School of Medicine at Mount Sinai New York, New York
2:55 p.m.	Discussion: Hematopoiesis and Inflammation Section Speakers	
3:10 p.m.	Break and Exhibits	
Microenvironment (Part 1) Section Moderator: Michael Andreeff, MD, PhD		
3:20 p.m.	Section Introduction	Michael Andreeff, MD, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
3:35 p.m.	Keynote - Stem Cell Clonality and the Niche	Leonard Zon, MD Boston Children’s Hospital Boston, Massachusetts
4:20 p.m.	Microenvironmental Drivers of MDS Pathogenesis and Treatment	Stavroula Kousteni, PhD Columbia University New York, New York
4:35 p.m.	From CH to MDS: Role of the Microenvironment in the Expansion of the Malignant Clone(s))	Dominique Bonnet, PhD The Francis Crick Institute London, United Kingdom
4:50 p.m.	The Role of Microenvironment in MDS Progression	Laura M. Calvi, MD University of Rochester Rochester, New York



Time	Talk Title	Speaker
5:05 p.m.	Discussions: Microenvironment (Part 1) Section Speakers	
5:10 p.m.	Adjourn	
May 22		
9 a.m.	Welcome	Simona Colla, PhD - Course Director The University of Texas MD Anderson Cancer Center Houston, Texas
Clonal Hematopoiesis and MDS Section Moderator: Guillermo Montalban Bravo, MD		
9:05 a.m.	Section Introduction	Guillermo Montalban Bravo, MD The University of Texas MD Anderson Cancer Center Houston, Texas
9:10 a.m.	Systematic Investigation of Factors Mediating Clonal Expansion in CHIP	Siddhartha Jaiswal, MD, PhD Stanford University Palo Alto, California
9:25 a.m.	DNMT3A in Normal and Malignant Hematopoiesis	Margaret (Peggy) Goodell, Ph.D. Baylor College of Medicine Houston, Texas
9:40 a.m.	Exploiting METTL3 Inhibition in MDS	Stephanie Halene, MD Yale School of Medicine New Haven, Connecticut
9:55 a.m.	Immunologic Somatic Gene Rescue via Immune Target Mutations as Marker of Tumor Surveillance	Jaroslav P. Maciejewski MD, PhD, FACP Cleveland Clinic Lerner College of Medicine, Case Western Reserve University Cleveland, Ohio
10:10 a.m.	Understanding and Targeting Progression in RUNX1 FPD	Ulrich Steidl, MD, PhD Albert Einstein College of Medicine, Montefiore Medical Center Bronx, New York



Time	Talk Title	Speaker
10:25 a.m.	Tet2 Age-associated Somatic Mutations Impair Megakaryopoiesis in Clonal Hematopoiesis	Kellie Machlus, PhD Boston Children’s Hospital and Harvard Medical School Boston, Massachusetts
10:40 a.m.	Discussions: Clonal Hematopoiesis and MDS - Section Speakers	
10:55 a.m.	Break and Exhibits	
Microenvironment (Part II) and Immune System in MDS Section Moderator: Natthakan Thongon, PhD		
11:15 a.m.	Section introduction:	Natthakan Thongon, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
11:20 a.m.	Anatomical Regulation of Hematopoiesis	Daniel Lucas, PhD Cincinnati Children’s Hospital Medical Center Cincinnati Ohio
11:35 a.m.	Immune Dysfunction in the MDS Microenvironment	Iannis Aifantis, PhD NYU Grossman School of Medicine New York, New York
11:50 a.m.	Epigenetic Scarring in Myeloid Malignancies	May Daher, MD The University of Texas MD Anderson Cancer Center Houston, Texas
12:05 p.m.	Discussions: Microenvironment (Part II) and Immune System in MDS Section Speakers	
12:20 p.m.	Lunch and Exhibits	
Innovative Technologies Section Moderator: Koichi Takahashi, MD, PhD		



Time	Talk Title	Speaker
1 p.m.	Section introduction	Koichi Takahashi, MD, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
1: 05 p.m.	Keynote - Ancestry and Function in the Hematopoietic System	Fernando Camargo, PhD Boston Children’s Hospital and Harvard University Boston, Massachusetts
1:50 p.m.	Stem Cells in Human Myeloid Malignancies	Ravi Majeti, MD, PhD Stanford University Palo Alto, California
2:05 p.m.	Insights into Leukemia Evolution from iPSC Models	Sergei Doulatov, PhD University of Washington Seattle, Washington
2:20 p.m.	Genotype to Phenotype Mapping in Single Cells: Uncovering Mutation-driven Malignant Phenotypes in Blood Malignancies	Franco Izzo, PhD Icahn School of Medicine at Mount Sinai New York, New York
2:35 p.m.	Discussions: Innovative Technologies Section Speakers	
2:50 p.m.	Break and Exhibits	
MDS New Therapies Section Moderator: Guillermo Garcia-Manero, MD		
3:05 p.m.	Section introduction	Guillermo Garcia-Manero, MD The University of Texas MD Anderson Cancer Center Houston, Texas
3:20 p.m.	Novel Insights into the Pathogenesis of Therapy-related MDS	Koichi Takahashi, MD, PhD The University of Texas MD Anderson Cancer Center Houston, Texas
3:35 p.m.	Update on Harmonization of MDS Classification: Where Are We Now and Could an ‘Immune Score’ be the Uniter	Sanam Loghavi, MD The University of Texas MD Anderson Cancer Center Houston, Texas



Time	Talk Title	Speaker
3:50 p.m.	Methylation and Aging in Lower Risk MDS	Valeria Santini, MD University of Florence Medical School Florence, Firenze, Italy
4:05 p.m.	AI to Improve Personalized Medicine in MDS	Matteo Giovanni Dalla Porta Humanitas Research Hospital Milan, Italy
4:20 p.m.	When and How to Transplant a Patient with MDS	David Valcarcel, MD, PhD Vall d'Hebron Hospital, Universitat Autònoma De Barcelona Barcelona, Spain
4:35 p.m.	New Therapies for HMA Failure	Guillermo Garcia-Manero, MD The University of Texas MD Anderson Cancer Center Houston, Texas
4:50 p.m.	Discussions: MDS New Therapies Section Speakers	
5:05 p.m.	Adjourn	