



***Join us Friday, September 5 @ 12:00 noon
for rounds presentation by:***

Dr. Sanjay Patel

***"Spatial Mapping of Human Hematopoiesis
at Single Cell Resolution in Aging and Myelodysplasia"***

Learning Objectives

- To educate the audience regarding previously defined niches for hematopoietic progenitor cells in bone marrow described using preclinical models
- To familiarize the audience with multiparametric in situ tissue imaging
- To describe the spatial architecture of human hematopoiesis, highlight findings from studies focused on aged bone marrows, and describe key results from ongoing studies in myelodysplasia

Dr. Sanjay S. Patel, M.D., MSc., M.P.H. is an Associate Professor in the Division of Hematopathology at Weill Cornell Medical College/New York-Presbyterian Hospital, where he directs the Fellowship Training Program in Hematopathology, and additionally serves as Director of the Multiparametric In Situ Imaging (MISI) Laboratory within the Department of Pathology. Prior to his current role(s), he completed residency in anatomic and clinical pathology at the University of Wisconsin Hospital and Clinics, followed by fellowship training in clinical hematopathology at the Brigham & Women's Hospital/Dana-Farber Cancer Institute (BWH/DFCI).

In conjunction with his clinical hematopathology training, he also obtained post-doctoral research training as the first Geraldine S. Pinkus Fellow in Translational Research in Hematopathology (Ruth L. Kirschstein T32 Award) at BWH/DFCI.

Dr. Patel's extensive background in basic science and clinical medicine has driven him toward a career as a clinician-scientist, whose research goals broadly center on the application of multi-omics approaches to human tissue, with an emphasis on spatial profiling of intact cellular microenvironments, in order to identify prognostic and predictive biomarkers in hematolymphoid neoplasia.

To date, his most significant contributions have been in the areas of NPM1-mutated acute myeloid leukemias and related pre-leukemic myeloid neoplasms, and in classic Hodgkin lymphoma. Several high-impact first-author publications, and meritorious awards, have resulted from these studies. At present, his translational research activities center on continued application of highly multiplexed *in situ* imaging techniques to 1) study intact tumor microenvironments in Hodgkin and non-Hodgkin lymphomas, 2) dissect the bone marrow microenvironment in NPM1-mutated myeloid neoplasms in order to identify biomarkers associated with and predictive of measurable residual disease, and 3) map the spatial features of human hematopoiesis in health, aging, and malignant bone marrow states.

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