

NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases



NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases Research Seminar



Louis Cohen, MD

Assistant Professor
Division of Gastroenterology
Department of Medicine
Icahn School of Medicine at Mount Sinai

"Mechanisms of Autologous Stem Cell Transplant for the Treatment of Refractory Crohns Disease"

Thursday, June 1, 2023

12:00 – 1:00 PM EST

901 Biomedical Research Building or [Via Zoom](#)

Crohns disease is an immune disease of the gastrointestinal tract that affects over 1 million people in the United States alone. It is believed to be a disease of host-microbial interaction whereby mechanisms that govern tolerance to commensal organisms break down and lead to unrestrained immune activation. Therapies that target this aberrant immune response are the basis for treatment but for many patients these therapies fail leaving them with significant disability and increased mortality. For these patients stem cell transplantation offers a chance at a meaningful therapeutic outcome though the mechanisms that underlie this therapy are almost entirely unknown. Using advanced molecular phenotyping methodologies including mass cytometry and single cell sequencing the Cohen Laboratory aims to understand the mechanisms of stem cell transplantation for Crohn's disease as part of an ongoing clinical trial. This trial is the first of its kind in the use of immunosuppression post transplantation as a strategy to maintain long-term disease-free remission. The Cohen Laboratory is also exploring new strategies to further enhance the efficacy of stem cell transplantation by targeting immune pathophysiology in hematopoietic stem cells.

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