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#### Histocompatibility and Engraftment Monitoring Core

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<http://www.feinberg.northwestern.edu/sites/transplant/research/research-cores/histocom-core.html>

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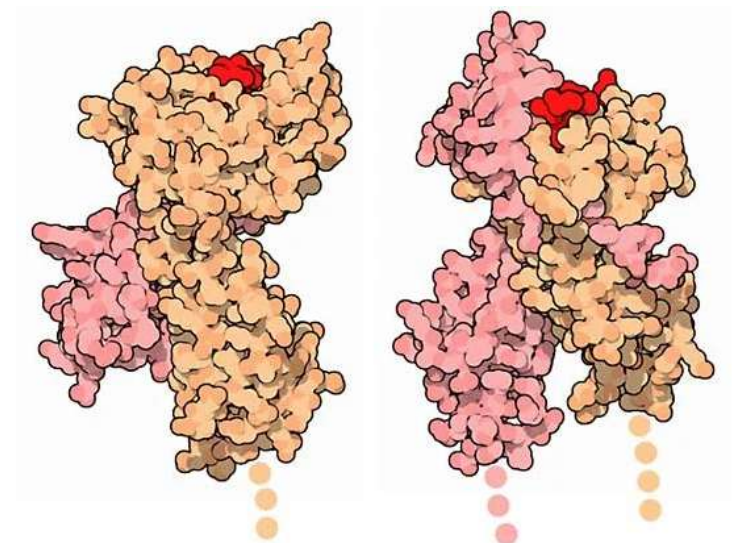
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#### COMPREHENSIVE TRANSPLANT CENTER

# HISTOCOMPATIBILITY AND ENGRAFTMENT MONITORING CORE



## Mission

The mission of the Histocompatibility and Engraftment Monitoring Core is to provide high quality histocompatibility services to all investigators in the Feinberg School of Medicine and the larger Northwestern University Research community.

This includes providing consultation on all aspects of the histocompatibility testing in transplantation, autoimmunity, infectious diseases, and allergy. The core's mission is also to develop state-of-the-art assays to improve donor selection and post-transplant monitoring for solid organ and stem cell transplantation.

## About the Core

The core is under the direction of associate director Aleksandar Senev, MD, PhD, F(EBTI), F(ACH) and co-directors Anat Tambur, PhD, DMD, D(ABHI) and David F Pinelli, PhD, F(ACH). The core also includes a laboratory manager, three supervisors, post-doctoral directors in training, and senior and junior technologists with extensive experience in tests related to solid organ and stem cell transplantation.

The Transplant Immunology Laboratory is accredited by the American Society for Histocompatibility and Immunogenetics, and Drs. Tambur, Pinelli, and Senev are certified by the American College of Histocompatibility and Immunogenetics as laboratory directors and clinical consultants.

## Services

The Histocompatibility and Engraftment Monitoring Core currently provides the following services to the investigators of the CTC as well as other investigators in Northwestern University. Investigators will be responsible for the costs incurred for their projects.

- HLA typing for class I and class II antigens
  - Low/intermediate resolution by SSO Labtype
  - High resolution by Next Generation Sequencing (NGS)
- HLA class I and class II antibody assessment
  - PRA analysis and CPRA calculations
  - Single Antigen Bead (SAB) assays by Luminex
  - Titration studies for antibody strength assessment
- T and B Lymphocyte flow cytometric crossmatch
  - Donor-Specific
  - Surrogate crossmatch- Shared Epitope analysis / other investigations
- Engraftment monitoring with 21 genetic markers using STR analysis

### Getting Started

To discuss starting a transplant related project using the Histocompatibility and Engraftment Monitoring Core, please contact:

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