Immune Monitoring Core
Feinberg School of Medicine
Northwestern University
300 E. Superior St., Tarry 11th Floor
Chicago, IL  60611
Tel: 312-503-1801
Fax: 312-503-3366

www.feinberg.northwestern.edu/transplant/cores/immune.html

Comprehensive Transplant Center
Feinberg School of Medicine
Northwestern University
676 N. St. Clair St., Suite 1900
Chicago, IL  60611
Tel: 312-695-3555
Fax: 866-485-9212
E-Mail: CTC@northwestern.edu

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About the Immune Monitoring Core

The Immune Monitoring Core is located at 300 E. Superior Street, Tarry Bldg 11th Floor, Chicago, IL 60611. It is a component of the Comprehensive Transplant Center (CTC) under the direction of Drs. Joshua Miller, Joseph Leventhal, Anat Tambur, and Xunrong Luo.

The Immune Monitoring core is dedicated to assisting investigators with a central resource for human immune monitoring needs for translational and clinical transplantation research projects. It provides a valuable and unique research opportunity for translational mechanistic studies in organ and stem cell transplantation.

We offer a wide variety of immune monitoring services, supported by a robust and specialized team of lab personnel and faculty directors. The core provides the necessary expertise in the increasingly specialized investigative paths within immune monitoring.

Personnel include a specialized team with associate directors in Renal, Liver, Pancreas, Islet transplantation as well as composite tissue allografts. Dr. James Mathew is the Laboratory Director and Technical Advisor for the Core.

Mission

- To provide translational mechanistic studies in human solid organ and cellular transplant immunology.

Services

The Immune 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 and prior animal protocol approval.

Specific Laboratories:
- Histocompatibility Research
- Cellular Immunology
- Immunochemistry
- Humanized Mouse Tolerance and Allo-immune Models

Services:
- Flow Cytometry Services
- Full spectrum of immune monitoring including typing, crossmatch, antibody measurement and chimerism analysis
- Assays for T helper and cytotoxic precursor
- Antigen presenting and hematopoietic stem cell assays
- Humanized mouse tolerance and allo-immune models
- Purification of immunoglobulins

We are always interested in developing new models and collaborations, and will attempt to accommodate any proposed project, large or small.

Getting Started

Initiating a project with the Immune Monitoring Core is easy.

- Just contact Dr. Joshua Miller at joshuamiller@northwestern.edu or 312-503-1801 (Alternate Contact: Dr. James Mathew 312-908-5180, james-mathew@northwestern.edu)

- For additional information, please email: CTC@northwestern.edu or visit the CTC’s web site by going to feinberg.northwestern.edu/transplant/cores/immune.html

Facts about the Core

- Located on the Tarry Building’s 11th Floor in Northwestern University’s Feinberg School of Medicine, the facility contains 12- and 5-color flow cytometers, Beta and Gamma counters, Luminex and ELISA plate readers, Autolmacs cell separators, cell sorters, and more.

- Provides the specialization of dedicated faculty, pre- and post-doctoral fellows and technologists as well as instrumentation and dedicated work space.

- Provides training for students and fellows at all levels in Northwestern University’s Feinberg School of Medicine, as well as trainees from other institutions.