



Einstein-Montefiore Institute for Clinical and Translational Research

The Albert Einstein College of Medicine and Montefiore Medical Center (MMC) have been awarded a Clinical and Translational Science Award (CTSA) by NIH that supports the Institute for Clinical and Translational Research (ICTR). The CTSA is a national consortium which, when fully implemented in 2012, will link 60 institutions. Currently, 39 centers comprise the Consortium which provides an academic home for clinical and translational science (<http://www.aecom.yu.edu/ictr/page.aspx>). The Principal Investigator and Director of the ICTR is Harry Shamoon MD, Associate Dean, Clinical & Translational Research. Brian Currie, MD, MPH, Assistant Dean and VP Research, MMC, and Paul Marantz MD, MPH, Associate Dean, Research Education are the co-directors. Dr. Frederick Kaskel is the associate director for the ICTR Child Health activities.

CLINICAL RESEARCH CENTERS (CRC)

Associate Directors: Marla Keller MD (East), Frederick Kaskel MD, PhD (West)

The CRC comprises two units dedicated to patient-oriented research, one on each campus. The CRC provides an infrastructure for studies of normal and abnormal body function and for investigation of the cause, progression, prevention, and treatments of human diseases. Resources include specialized nursing staff, laboratory tests, and informatics support for adults and children. Pediatrics represents a major area of investment for the CTSA, and thus for the ICTR; most pediatric research is conducted at the West Campus CRC.

RESEARCH, EDUCATION, AND TRAINING

Associate Directors: Ellie Schoenbaum MD; Paul Marantz, MD, MPH

This component builds upon existing programs and Einstein's uniquely integrated research educational enterprise to create a multifaceted academic and training program for pre-doctoral medical and graduate students, post-doctoral and graduate medical trainees and attending level clinicians, and non-physician clinical trainees and junior faculty, that will prepare them for careers as investigators in translational and clinical research. Degree-granting (MS, PhD) as well as certificate programs are supported.

BIostatISTICS, RESEARCH DESIGN, ETHICS

Associate Director: Mimi Kim ScD

A robust Biostatistical Resource has been developed as a key component. The Resource comprises faculty and staff with expertise in study design, biostatistics, epidemiology, and research ethics, many of whom will have multiple roles in ICTR-related functions.

BIOMEDICAL INFORMATICS

Associate Director: Tom H. Karson MD

The Informatics Core serves the community with information technology solutions. Its overall goals are to enhance secure data management and sharing, including creating a virtual data warehouse that integrates basic and clinical information.

REGULATORY KNOWLEDGE AND SUPPORT

Associate Director: Shlomo Shinnar MD, PhD

The goal of the Regulatory Knowledge and Support program is to ensure the protection of human subjects, to facilitate interactions with the CCI and IRB.

COMMUNITY ENGAGEMENT

Associate Director: Hal Strelnick MD

Both Einstein and MMC have traditionally enjoyed strong, collaborative relationships with their local Bronx communities. The core will facilitate research in health outcomes, behavioral interventions, community participatory research, and in health services research via a senior leadership team that is directed by Hal Strelnick MD.

PILOT TRANSLATIONAL AND CLINICAL STUDIES

Associate Director: Paul Marantz MD, MPH

The program emphasizes collaborative research that incorporates multidisciplinary expertise to promote innovative clinical and translational research. This program also supports effective implementation of new ideas that could be important for clinical applications of novel technologies as well as new directions of ongoing research by encouraging investigator-initiated submissions.

PUBLIC -PRIVATE PARTNERSHIPS

Associate Directors: Edward R. Burns MD; David Scheonhaut PhD

The Public-Private Partnerships component facilitates partnerships with industry, academia and patient advocacy groups in order to support and conduct medical research, research training and the dissemination of information.

ANALYTICAL CORE LABORATORY

Associate Director: Daniel T. Stein MD

The Analytical Core comprises three scientific functions and serves as the central sample processing unit for the ICTR and Sample and Tissue Biorepository. The core supports: state-of-the-art mass spectrometry analyses, novel developmental projects, and training in analytical chemistry.

BIOREPOSITORY

Associate Director: Daniel T. Stein MD

Specimen banking has become a high priority as research has moved to utilize advances in clinical genomics, proteomics, and biomarkers. To support the research community's requirement for long-term archival and shareable storage of samples on well-characterized human subjects, the Biorepository is under the aegis of the ICTR.

COMMUNICATIONS

Associate Director: Gordon Earle

This component links investigators to institution-wide resources and opportunities, and disseminates information to the Bronx community. The Communications Interface organizes and publicizes symposia aimed at multi- and inter-disciplinary investigators which will include presentations by internal faculty and outside speakers.

GENOMIC CORES

Associate Director: Bernice Morrow PhD

The Department of Genetics Cores include a set of core laboratories to support human genetics, including both low and high-throughput genotyping technologies.

STEM CELL and NOVEL METHODOLOGIES

Associate Directors: Sanjeev Gupta MBBS; Richard Gorlick MD

In addition to its highly-publicized therapeutic potential, stem cell work has important implications for developmental biology, cancer research, drug discovery and screening. The current working definitions are that stem cells are self-renewing, producing progeny that could generate either a complete organism (totipotent), all cell lineages (pluripotent), multiple cell lineages (multipotent), or even a single cell lineage (facultative, transit-amplifying progenitor cells, etc.).