

BIOMARKER ANALYTIC RESEARCH CORE

The Biomarker Analytic Research Core (BARC) is a centralized ICTR translational technologies resource. Patient samples that are handled on both campuses are routed through the BARC. The analytic functions include stable isotope dilution assays, radioimmunometric assays, biomarker and substrate analyses, and sample/DNA processing. In addition, we provide high-throughput analyses using mass spectrometry and other methods for a wide range of analytes.

BIOREPOSITORY CORE

Patient-derived specimens are essential to research in genomics, proteomics, and biomarkers. This core provides banking for biological fluid and tissue specimens as well as human DNA and RNA. The Biorepository provides secure archival sample storage as well as clinically-annotated specimen biobanks for defined research projects. Samples can be banked by an individual PI or by a consortium of investigators. The facility works under the best practices set out by NCI and ISBER for collection, storage, and retrieval of human biological materials for research.

BIostatISTICS, EPIDEMIOLOGY & RESEARCH DESIGN CORE

The Core is comprised of faculty with expertise in clinical trials, population-based research, and genetic analytic methods, and who provide a wide range of consultation and assistance, including study design, biostatistics analyses, and novel methodologies. The resource provides statistical and epidemiologic support, collaborates with investigators, and identifies new problems and statistical method solutions. Walk-In Biostatistics Consulting is available on both campuses, where investigators can drop by and receive advice about their projects from statisticians.

CLINICAL RESEARCH CENTER

The Clinical Research Center (CRC) units are dedicated to patient-oriented research on both East (Einstein) and West (Moses) Campuses. The units provide staff and dedicated space for adult and pediatric studies. Facilities are available for physical exams, intensive procedures, private interviews, and most types of data collection. Inpatient beds are also available on a *per diem* basis.

COMMUNITY ENGAGEMENT CONSULTATION & COLLABORATION CORE

The Core is closely allied with the new Health Research Implementation Core to enhance community engagement with research that impacts health care. The Core works with The Bronx Health Link to expand collaborations and engagement with the Bronx community and healthcare partners. It helps advance life span, child health, and aging research across genders and special populations, by working with the Bronx Community Research Review Board. Finally, the Core innovates methods and processes that advance clinical research by linking with the Community Engagement Research Academy (CERA) to advance team science.

HEALTH RESEARCH IMPLEMENTATION CORE

The health research implementation core provides resources for designing and implementing research programs that efficiently translate effective strategies to improve health into practice in clinical settings and the community through expertise in patient centered outcomes research (PCOR), comparative effectiveness research (CER) and dissemination and implementation science (DIS). The core partners from the Montefiore CMO, the Office of Community and Population Health, and the Montefiore Medical Group.

LIFESPAN RESEARCH CORE

The Core integrates Special Populations and Life Span Research to support clinical and translational research in unique groups across the life span by using novel approaches to enhance the integration of life course research perspectives. The Core engages individuals from disadvantaged ethnic/racial minority groups, or those who bear a disproportionate burden of disease, and focuses on building capacity in rare disease research, Latino health, chronic kidney disease, and HIV by leveraging CTSA cores, training, education and novel methodologies.

OFFICE OF CLINICAL TRIALS

The Office of Clinical Trials (OCT) is the central administrative office for non-government funded consortiums, subcontracts, collaborations for Montefiore Medical Center and Albert Einstein College of Medicine. The OCT specializes in contractual and budgetary start-up and on-going financial management of trials. Services include building and negotiating budgets, crafting and negotiating contracts, and engaging in business development. The OCT supports the CTSA Trial Innovation Network (TIN) that provides consultations and services for multi-center NIH-funded clinical trials. The TIN is a flexible resource that provides a menu of consultations and services by the CTSA Trial Innovation and Recruitment Innovation centers.

RESEARCH CAREER DEVELOPMENT CORE

Einstein's comprehensive selection of career development and educational programs helps faculty pursue careers as clinical and translational scientists in academic and other settings. The Core focuses on new innovative initiatives, including methodologically-focused 'tracks' within our Clinical Research Training Program and novel applications of distance- and hybrid-learning technologies, team science competencies, linking research and health improvement within a learning healthcare system, and providing sustainable career pathways for diverse clinician-investigators in research/healthcare teams.

RESEARCH EDUCATION AND TRAINING CORE

The ICTR supports a highly integrated core of education and career development programs in clinical and translational research. Among our interlinked and coordinated education and career development programs are the innovative PhD in Clinical Investigation (PCI) that identifies, educates, supports, and mentors talented PhD and MD-PhD candidates to become impactful and successful scientists, the Master of Science in Clinical Research Methods (MSc) through the Clinical Research Training Program (CRTP) and two other Core offerings: 1) Clinical Research 101 lecture series entitled Fundamentals of Clinical Research Methods and 2) a seminar program entitled Design and Conduct of Clinical Research.

RESEARCH INFORMATICS CORE

The Core supports the clinical data pipeline for Einstein and Montefiore, and provides informatics infrastructure, tools, and standards that optimize collection, retrieval, integration, sharing, processing, and communication of biological, clinical, and environmental data for clinical and translational research. The Core is a trans-disciplinary service that brings expertise from the Center for Health Data Innovations to support translational research across the spectrum.

CONTACT US

To learn more about the above cores, access services, or contact an administrator, please visit our website:

www.einstein.yu.edu/ictr