



Biostatistics and Research Design

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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.

Research Informatics

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The Core supports the world-class data pipeline and analytics for Einstein and Montefiore researchers, and provides informatics infrastructure, tools, and standards to optimize collection, integration, and sharing of biological, clinical, and environmental data. The Core members are a team of trans-disciplinary scientists and staff who bring expertise from the Montefiore-Einstein Center for Health Data Innovations to support translational research across the spectrum.



Biorepository

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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.

Biomarker Analytic Research Core

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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.



Community Engagement Consultation & Collaboration

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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.



Clinical Research Centers

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The Clinical Research Center units are dedicated to state-of-the-art investigator-initiated research on both Einstein and 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 at Weiler and Wakefield.



Life Span Research

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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 focuses on research in disadvantaged ethnic/racial groups, rare diseases, or those who bear a disproportionate burden of disease, and focuses on building capacity in genetic disease research, Latino health, and chronic diseases by leveraging CTSA cores, training, education and novel methodologies.



Health Research Implementation Core

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The health research implementation team supports dissemination and implementation research that efficiently translate strategies to improve health into practice in clinical settings through expertise in patient centered outcomes research, comparative effectiveness research, and dissemination and implementation science. The core partners include the Montefiore CMO, the Office of Community and Population Health, and the Montefiore Medical Group. The core also works with our practice-based research network (NYC RING), and trains clinicians in scientifically sound quality improvement and patient safety research.



Office of Clinical Trials

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The Office of Clinical Trials (OCT) is the central administrative office for non-government-funded research subcontracts, and collaborations for Montefiore and Einstein. 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 Education and Training

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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) is attained through the Clinical Research Training Program (CRTP). This intensive two-year program is designed for those pursuing a career in investigator-initiated, hypothesis-driven clinical research. Two other offerings are 1) the annual Clinical Research 101 lecture series (*Fundamentals of Clinical Research Methods*) that provides the basics for graduate students, residents, fellows and faculty; and 2) a seminar program (*Design and Conduct of Clinical Research*) to introduce trainees to clinical research with a focus on epidemiology and study design, including measures of association, basic statistics, cohort studies, case control studies, clinical trials, causal inference, and research ethics.

Research Career Development

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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 distance- and hybrid-learning technologies, team science, linking research and health improvement within a learning healthcare system, and providing sustainable career pathways for diverse clinician-investigators. Our CTSA-funded KL2 and Block Scholars are selected through a competitive review process from among junior faculty at the Instructor or Assistant Professor level with sufficient background and experience to demonstrate their potential for a career in clinical or translational research. While each awardee has her/his own career development and mentoring plan, there are some overarching, near universal issues faced by all such Scholars. The *Mentoring for Translational and Team Science* (MeTTS) program The MeTTS helps Scholars find solutions to common challenges, and meets monthly for presentations and discussions designed to support their transition to independent research careers.



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