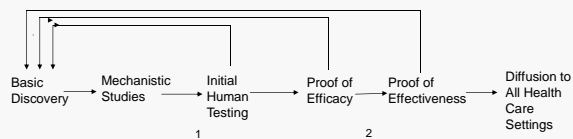


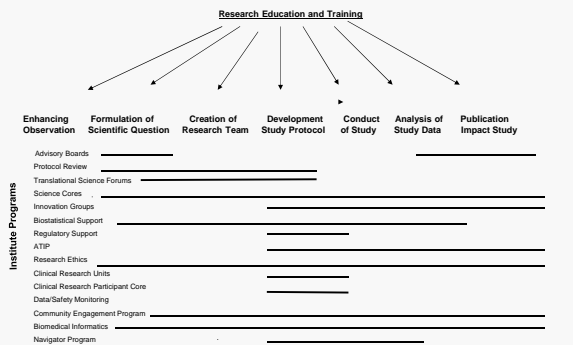
Johns Hopkins Institute for Clinical and Translational Research A CTSA Program

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Translational Research
Vice Dean for Clinical Investigation

Translational Pathway



Institute for Clinical and Translational Research Influence on Scientific Discovery



**Johns Hopkins ICTR
Participating Schools**

- School of Arts and Sciences
- School of Business
- School of Engineering
- School of Medicine
- School of Nursing
- School of Public Health

**Research Education, Training, and
Career Development**

Leaders: Pete Miller, Franklin Adkinson, Mary Catherine Beach, Liz Selvin

- Coordinates clinical and translational research training throughout Johns Hopkins
- Administers formal degree granting programs in clinical research (Graduate Program in Clinical Investigation, Clinical Epidemiology Program)
- Administers predoctoral (TL), postdoctoral (KL) and junior faculty (KL) training awards in clinical and translational research
- Coordinates summer and elective experiences in clinical and translational research for medical and nursing students

Clinical Research Units

Leaders: Pamela Ouyang (Bayview), Charles Flexner (JHH Broadway), Pamela Zeitlin (Pediatrics), Michael Cataldo (Neurobehavioral KKI)

- Continue to provide the "laboratory" in which over 260 active clinical research protocols currently being accomplished
- Inpatient and Outpatient facilities on the Broadway and Bayview campuses (both adult and pediatric); sleep units (Pediatric at Broadway, Adult at the Bayview campus)
- Emphasis on investigator-initiated protocols
- Provide thorough peer review prior to study initiation
- Support investigators with trained research nurses, phlebotomists, and interviewers
- Support investigators with computing (including system manager), full nutrition staff and consultations.
- Support investigators by funding limited laboratory and imaging costs

Clinical Research Units

- Provide specialized services such as exercise (Bayview/GSS), body composition, CV imaging (Bayview), and a Core Laboratory for research immunoassays, mucociliary clearance laboratory, flexible bronchoscopy, BAL and infant lung function laboratory (Pediatrics)
- Provide specimen processing
- Neurobehavioral CRU (Kennedy Krieger) with functional MRI facilities is also available to researchers

Translational Research Navigators

Leader: Daniel Ford

- Experienced research coordinators available to research teams to help develop a plan for efficiently moving protocols through regulatory offices
- Assist research teams in completing appropriate applications and taking advantage of all science opportunities
- SCAMP Program for research coordinators

Biostatistical Support

Leaders: Karen Bandeen Roche and Rick Thompson

- Johns Hopkins Biostatistics for Clinical and Translational Research (Biostats CenTeR)
- Center coordinates biostatistics support to Johns Hopkins translational research teams
- Provides practical advice on study design and biostatistics questions
- Encourages consultation at study design phase and before data collection has been initiated

**Advanced Translation Incubator Program
- ATIP**

Leader: Jeffrey Rothstein

- Research teams can apply for pilot grant funds to support translational projects
- Investigators need to describe a “deliverable” product at the end of funding
- Program includes a new focus on strict timelines with rapid turnaround
- Can apply for up to \$100,000 over two years
- New investigators, interdisciplinary teams, and research teams with trainees are priorities

**Clinical Research Management System -
CRMS**

**Leaders: Diana Gumas, Daniel Ford,
Stuart Ray, Kerry Stewart**

- Application to register and follow research participants
- Linked to eIRB and EPR
- Document eligibility and produce CRF
- Web-based secure system
- Form Builder

Biomedical Informatics

Leaders: Harold Lehmann and Diana Gumas

- Have programs responsible for knowledge management, clinical research informatics, biospecimen informatics, and bioinformatics
- Piloting use of caTISSUE/OpenBiospecimen for managing biospecimens
- SciVal/Collexis for searching researchers at Johns Hopkins
- Center for Computational Genomics – Sarah Wheelan
- Developing a secure research data desktop application

Center for Clinical Data Analysis (CCDA)

Leader: David Thiemann

- Jointly sponsored by ICTR and the Johns Hopkins Medicine Center for Information Services (JHMCIS)
- Provides “one-stop shopping” and database expertise for researchers who need data from enterprise clinical systems (Epic, Amalga, Sunrise, Datamart, IDX, Pathology)
- Acts as trusted intermediary for data queries and ensures that data release conforms to IRB terms
- Services include sample-size estimates for grant planning and statistical analysis, case-finding for research, and one-time or periodic data extracts for research analysis.

Research Participant Retention and Recruitment Office

Leader: Cheryl Dennison Himmelfarb

- Develop tools to monitor the success of various recruitment and retention approaches used within Johns Hopkins
- Provide consultations on various IRB-approved recruitment strategies
- Develop Johns Hopkins strategic initiatives focused on recruitment and retention

Johns Hopkins Data and Safety Monitoring Board

Leaders: Fred Luthardt and Daniel Ford

- Help investigators who do not have access to a DSMB develop a data and safety monitoring plan
- If a DSMB is needed provide the structure and administrative support for an institutional DSMB
- Communicate DSMB decisions to appropriate IRBs
- DSMB courses

Research Ethics Achievement Program

Leader: Jeremy Sugarman

- Provides ethics consultations for research groups concerning design and conduct of studies
- Conducts empirical studies to inform policies related to risks and benefits associated with different study designs and consent procedures

Research Participant Advocate

Leaders: Liz Martinez and Daniel Ford

- Consultation to research teams about best ways to work with research subjects
- Work with research teams who need an intermediary for working with dissatisfied research participants
- Leads efforts to thank research participants for their work in research studies

Community Engagement Office

Leaders: Cheryl Dennison-Himmelfarb, Adrian Dobs, Crystal Evans

- Johns Hopkins Clinical Research Network
 - Focus on expanding sites and providers performing research, e.g. Anne Arundel Medical Center; community physicians
- Community Research Advisory Council
 - Focus on working with patient disease advocacy groups to set research agenda and enlist help with translational research projects
- Knowledge Translation Office
 - Focus on consultation service for research teams as they design efficacy/effectiveness studies. Consumers of research include patients, providers, payers, and hospitals

Drug/Device/Vaccine Development

Leaders: Elizabeth Jaffee and Craig Hendrix

- Provides consultation to research teams on using institutional resources to promote drug/device/vaccine development
- Provides medicinal chemistry expertise for pre-clinical toxicology
- Provides Good Manufacturing Practices (GMP) and near-GMP for synthesis of biological reagents for pre-clinical toxicology and early Phase 1 testing
- Provide pharmacologic and biologic endpoint expertise
- Individual and group seminars and hands on experience with core technologies

Proteomics/Biomarker Core

Leader: Jennifer Van Eyk

- Integrates discovery and validation strategies and technologies for the development of robust biomarkers
- Assists in study design, cohort development, appropriate experimentation and data analysis as part of discovery process
- Develops and coordinates new technologies and optimizes/standardizes protocols specifically for biomarker development
- Individual and group seminars and hands on experience with core technologies

Genetics Translational Technology Core

Leader: Gary Cutting

- Provide consultation to clinical and translational research teams regarding the feasibility, design, power and costs of projects using molecular technologies
- Provide clinical grade services such as DNA banking, sequencing and genotyping for qualified investigators
- Can help evaluate test performance in a CLIA-certified environment
- Individual and group seminars and hands on experience with core technologies

Imaging Core

Leader: Katarzyna Macura

- Provides consultation for best imaging approach in translational studies

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- Email questions, service requests, or content suggestions to ictr@jhmi.edu
- Link to national CTSA website:
<http://www.ctsacentral.org>
