ICTS Overview: What is the ICTS, and What Can It Do For Me?

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Co-PI, Clinical and Translational Science Award
Clinical and Translational Science Awards

**Purpose:** Encourage academic health centers to create a home for clinical and translational science, provide research support and infrastructure

12 sites in 2006
12 sites in 2007, including WU

Washington University
Institute of Clinical and Translational Sciences (ICTS)
Established through CTSA Award Granted 9/17/07
Building a National CTSA Consortium

NIH expects to eventually fund 60 sites

Participating Institutions

△ Since 2006
○ Since 2007
In Applying for a CTSA the NIH expected institutions to

Create a home to transform the organization of Clinical and Translational Research by breaking down barriers between departments and disciplines.

Establish an infrastructure for clinical and translational research that all investigators will be able to access independent of disease orientation.

Train the next generation of clinical investigators.

Reach out to the community and to industry.

Establish an infrastructure in biomedical informatics.

The grant is therefore primarily an INFRASTRUCTURE grant that facilitates research, increasingly as part of interdisciplinary teams.
How Can ICTS Help You?

1. Use the ICTS Cores & Services as you develop research protocols and conduct research

2. Participate in the Education Programs

3. Apply to the Novel Methodologies/Pilot Studies Call for Proposals

4. Connect with other investigators through the ICTS
Phases in the Evolution of Clinical Research Projects

- Development and Refinement of Clinical Research Ideas and Hypotheses through Peer Group Interactions (Phase 1)
- Early Planning, Protocol Development and Submission and Application for Research Funding (Phase 2)
- Research Education, Training and Career Development
- Data Analysis and Interpretation, Presentation and Publication of Results (Phase 4)
- Study Implementation and Performance (Phase 3)
- Translation of Research Results into Clinical or Community Practice (Phase 5)
Center for Applied Research Sciences

Research Cores and Services

Clinical and Translational Research Training

Community Engagement
Center for Applied Research Sciences

- Brain, Behavior, Performance Unit
- Clinical Trials Unit
- Human Imaging Unit
- Intensive Research Unit
- Pediatric Research Unit
Research Cores & Services

- Business Development Core
- Center for Biomedical Informatics
- Center for Clinical Research Ethics
- Human Genetics & Genomics
- Research Design & Biostatistics Group
- Regulatory Support Center
- Proteomics & Mass Spectrometry
- Translational Pathology & Tissue Banking
Guides clinical study design, data collection and data analysis.

Assistance is available from protocol/proposal preparation to manuscript development.
Services Available to ICTS Members

• Support preparation of Protocols/Proposals
• Consult with investigators doing their own data analyses
• Conduct data analyses
• Create data management systems for study data
• Participate on Data and Safety Monitoring Committees
• Develop new instruments
• Serve as Coordinating Center for multi-institutional studies
• Develop new statistical approaches
• Link investigators to other appropriate methodological & quantitative investigators
Provides specialized expertise in the performance of clinical research studies of the nervous system such as:

• Collaboration, consultation, testing and training (neurologic, psychiatric and psychometric domains)
• Specialized testing for muscle strength and function
• Quantified measures of movement (gait, performance-based measures of daily living activities, quality-of-life measures)
• Common database collection, retrieval and transfer of all research information
**Services Available to ICTS Members**

- Consultation for designing studies using BBPU
- Training for investigators, trainees and research coordinators
- Performance based measures of activities of daily living
- Neurologic evaluations including multiple standard rating scales of movement, mental status and mood
• Located in the Center for Clinical Imaging Research (CCIR)
• State-of-the-art biomedical imaging facility
• Provides the latest in advanced imaging technology, equipment and expertise
• Supports basic and translational inpatient and outpatient clinical research.
Services Available to ICTS Members

• Pre-study services that help investigators design, set up, and kick off the study
• Coordinating services, including Scanning, that provide assistance in executing, monitoring and evaluating the study
• Information Technology management services to handle, track, and process imaging data
ICTS Programs, Cores & Services

Welcome from the Director

Welcome to the Washington University Institute of Clinical and Translational Sciences (ICTS) website. The Institute has been established through major funding from the National Institutes of Health's Clinical and Translational Science Award program. The Institute is comprised of 15 key programs. Read more

News

ICTS Proposal Awards
Feb 22, 2005
The response to the first ICTS Call for Proposals included 138 Letters of Intent followed by 104 full applications. Three reviewers were assigned to each proposal with 85 people participating, including reviewers from 5 of the 6 ICTS partner institutions. Fifteen proposals were funded, including 3 Planning Grants, 3 Individual Grants, and 9 Collaborative Grants. A list of the investigators and proposals can be found at http://icts.wustl.edu/funding/.

ICTS Cores and Services Now Available
Jan 11, 2008
The Cores and Services under the umbrella of the ICTS are open for business. Although the Institute expects to grow these Cores and Services over the next several months and years, a significant amount of facilities, equipment, staffing and expertise is already available and highlighted on the webpage for each individual Core. Contact a specific core or the ICTS Administrative core at ICTS@wustl.edu.

Contact Information
Kenneth S. Polonsky, MD
Polonsky@im.wustl.edu
ICTS Director
**Focus:** to support clinical and/or translational research

**Applicant Eligibility Requirements:**
- A registered ICTS member, from an ICTS participating institution
- Faculty or faculty equivalent

**2008: 15 Awarded:**
- 3 Planning ($25,000)
- 3 Individual ($60,000)
- 9 Collaborative ($80,000)

**Next Call for Proposals:** Late 2008 or Early 2009
• Offers three clinical research training programs and didactic coursework leading to certificate or MSCI degree

• Coursework:
  • *Introduction to Statistics for the Health Sciences*
  • *Intermediate Statistics for the Health Sciences*
  • *Designing Outcomes and Clinical Research*
  • *Epidemiology for Clinical Research*
  • *Scientific Writing and Publishing*
  • *Grant Writing and Grantsmanship*
  • *Ethical and Legal Issues in Clinical Research*
Clinical Research Training Programs

1) Predoctoral Program
   (formerly roadmap T32 - J. Piccirillo)

2) Postdoctoral Program
   (formerly K30 - B. Evanoff)

3) Career Development Program
   (formerly K12 - V. Fraser)
• Predoctoral students in medical and allied health professions
• Two cores:
  – short-term (summer)
  – intensive (one-year)
• ~ 8 scholars accepted in each core annually
• Conduct clinical research, complete didactic coursework in clinical investigation, and attend seminars
• Option to earn Masters of Science in Clinical Investigation (MSCI)
• Stipends and funds for research-related expenses available
CRTC Postdoctoral Program

- Postdocs, fellows and junior faculty in medicine and allied health professions
- Conduct clinical research, complete didactic coursework in clinical investigation, attend seminars
- Can be completed in 2-3 years (6-7 core courses, 2 electives)
- Option to earn an MSCI
- ~ 10 scholars accepted annually (~80% pursue MSCI)
- Some funding for research – related expenses, no funding for salary or tuition
- Tuition payment typically comes from training grants and/or departmental funds

Washington University Institute of Clinical and Translational Sciences
CRTC Career Development Program

- Junior faculty in medical and other allied health professions
- Funding includes 75% salary support, tuition, and $25,000 research-related expenses / scholar
- Minimum of two years, may request a third year
- Complete didactic coursework, conduct clinical research, and attend research and career development seminars
- MSCI -- Washington University School of Medicine
- Masters of Science in Public Health (MSPH) -- Saint Louis University
- Individualized coursework, e.g., WU’s Genetic Epidemiology Masters of Science (GEMS) degree
What Should People Do Now?

• Visit the website (www.ICTS.wustl.edu)

• Register as a member of the ICTS
  – Registration via website (www.ICTS.wustl.edu)
  – Trainees must have a letter of support from their mentor or sponsor

• Consider using the available ICTS Cores & Services

• Search ICTS Membership for potential collaborators (http://icts.wustl.edu/membertools/directory/)
Rebecca Aft, MD, PhD, Email
Institution: Washington University (WU)
Area of Clinical or Research Interest: Moecularly characterizing disseminated tumor cells which are intermediaries in the metastatic cascade

Jennifer A. Allsworth, PhD, Assistant Professor, Email
Institution: Washington University (WU)
Area of Clinical or Research Interest: Dr. Allsworth joined the faculty at Washington University in 2006 and is an epidemiologist in the Department of Obstetrics and Gynecology. She is a reproductive and social epidemiologist with specific expertise in the impact of social factors on reproductive health. Dr. Allsworth has been an investigator on multiple longitudinal large-scale population based epidemiologic studies in women’s health, including the Study of Women’s Health across the Nation (SWAN), a multi-ethnic, longitudinal study of women’s health during the menopausal transition, and Project PROTECT, an intervention study to improve dual method contraceptive use. Her research interests include: the role of the interaction between race/ethnicity and inflammation in the onset and consequences of bacterial vaginosis, the association between social factors and obstetric and gynecologic outcomes, such as preterm birth; the impact of stress on reproductive aging (timing of menarche and menopause); and the impact of financial barriers on the use and continuation of contraception.

Gerald Andriele, MD, Professor and Chief of Urologic Surgery, Email
Institution: Washington University (WU)
Area of Clinical or Research Interest: Prostate Cancer prevention, screening and prevention and BPH treatment

Ana Maria Arbelaez, MD, Email
Institution: Washington University (WU)
Area of Clinical or Research Interest: My area of research interest is Diabetes and in particular the role of cerebral mechanisms involved in the pathophysiology of Hypotremia associated Autonomic Failure in
Contact the ICTS Administrative Core

icts@im.wustl.edu

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