

CTSA FACT SHEET

Highlights from the 2007 CTSA Grantees

Prepared: December 2007

(Twelve new CTSA's were awarded in 2007. The following descriptions are excerpts from the grantees' CTSA applications and reflect proposed activities.)

Case Western Reserve University

This CTSA will be based at Case Western Reserve University and will include three of the hospital affiliates of the School of Medicine: the Cleveland Clinic, University Hospitals, and MetroHealth Medical Center. Together, these hospitals cover 90 percent of the medical care delivered in the seven-county area surrounding Cleveland, Ohio, offering a wealth of clinical research opportunities. In addition, excellent programs based in the Frances Payne Bolton School of Nursing and the School of Dental Medicine, as well as those in the School of Medicine and its hospital affiliates, reach into the community at many sites, some of which will become study sites in the CTSA. Together with the strong biomedical cores, the reach of these programs affords great opportunity for collaborative clinical research.

Web Site: <http://www.case.edu>

Emory University

The Atlanta Clinical and Translational Science Institute (Atlanta-CTSI) is led by Emory University, along with partners Morehouse School of Medicine, Georgia Institute of Technology, and Children's Healthcare of Atlanta. These institutions are already partners in health care, education, and cutting-edge, interdisciplinary research that will be propelled by the Atlanta-CTSI.

The established partnerships and diverse faculty enable the Atlanta-CTSI to combine strong clinical, translational, training, and basic discovery programs at Emory with the health disparities, training, and community outreach focus of Morehouse School of Medicine; the engineering and

bioinformatics achievements of Georgia Tech; and the excellence in pediatrics of Children's Healthcare of Atlanta. Collaborations with the private nonprofit Georgia Bio organization and the Georgia Research Alliance, a state-sponsored academic-industry partnership, create additional synergies that foster and accelerate development and application of new and emerging technologies. Finally, the Atlanta-CTSI creates dynamic community, public health, informatics, and population studies programs through partnerships and collaborations with Kaiser Permanente of Georgia, the Centers for Disease Control and Prevention, and the Atlanta Veterans Affairs Medical Center.

Web Site: <http://www.med.emory.edu/research/ctsa>

Johns Hopkins University

The new Johns Hopkins Institute for Clinical and Translational Research will synergize many existing translational research efforts across the Johns Hopkins Schools of Engineering, Medicine, Nursing, and Public Health. The institute will create new opportunities to partner with patient communities and for-profit organizations that are dedicated to moving new medical interventions into practice. Incorporating new partners for clinical research among community hospitals and primary care organizations will also be a priority. The institute will provide comprehensive training programs for clinical and translational research that will be targeted for the full range of learners. Clinical and translational researchers will be supported by new programs in biostatistics, innovative methodology, patient recruitment, navigating through regulatory offices, clinical research management systems, bioinformatics, data safety and monitoring programs,

building community bridges, research ethics consultations, and the Accelerated Translational Incubator Program (pilot program). New translational cores in drug, device, and vaccine development; proteomics; genetics; and imaging will create new translational research teams. Basic and translational science forums will create and support new research teams that span the translational pathway.

Web Site: <http://www.jhu.edu>

University of Chicago

The ultimate goals of the University of Chicago (UC) CTSA program are: 1) to train scientists and health care providers at the university, partner institutions, and community to determine the molecular underpinnings of disease and disease predisposition in any individual patient; 2) to develop, test, implement, and make readily available to community residents personalized therapies directed toward those individual underpinnings; and 3) to do this in a way that is rigorous, valid, efficient, ethical, and respectful of the community's needs and values. In a robust alliance with the Argonne National Laboratory, the Illinois Institute of Technology, and two large health care organizations, the UC CTSA will undertake three bold new steps that will transform clinical and translational research: 1) creation of an Institute for Translational Medicine, a new University-wide structure to collect, integrate, and disseminate the intellectual, organizational, and resource infrastructure needed to promote and support multidisciplinary translational research collaborations; 2) synergistic research interaction with a new Urban Health Initiative that, through partnership with community stakeholders, aims to improve community health care access and quality, to build health literacy and trust throughout the community, to enhance a translational research program informed by and responsive to the needs of the community, and to reduce health disparities; and 3) establishment of a new academic Committee on Clinical and Translational Science and of multiple novel training programs to encourage and develop careers in clinical and translational research, intended for high school students through university faculty and across the entire translational research spectrum. CTSA investigators will employ a systems medicine approach to leverage their particular expertise in social science, genetic medicine, and integrative therapeutics.

Web Site: <http://www.uchicago.edu>

University of Iowa

The University of Iowa's (UI's) Institute for Clinical and Translational Science includes 39 established university centers and institutes representing all 11 UI colleges. Examples include the UI Hospitals and Clinics' General Clinical Research Center; the Holden Comprehensive Cancer Center; the Law, Health Policy, and Disability Center; the Prairieland's Addiction Technology Transfer Center; the Northern Plains Native American Health Disparities Center; and the Upper Midwest Public Health Training Center. Partnerships with the University of Arizona and Iowa State University add richness and diversity to the institute's efforts. The institute will energize strong UI research programs in such areas as optical science, oral and maxillofacial implants, nanotechnology, and advanced imaging, and it will nurture newer initiatives like community-based research. The institute's statewide network of community practitioners, hospitals, and health organizations will help identify areas for further study; improve public perception of clinical research; and make cutting-edge research, discoveries, and treatments available to patients wherever they live. Looking even further ahead, the institute's master's degree and Ph.D. programs in clinical and translational science will prepare tomorrow's researchers. CTSA support will advance research at UI in innumerable ways.

Web Site: <http://www.uiowa.edu>

University of Michigan

The Michigan Institute for Clinical and Health Research creates partnerships among the relevant units of the university, NIH, external industry partners, and the community. The overwhelming majority of University of Michigan (UM) schools, colleges, and institutes are participating, including the top-ranked schools of business, dentistry, medicine, nursing, social work, and public health; the colleges of engineering, pharmacy, literature, and science and arts; the division of kinesiology; the Institute for Social Research; and the Life Sciences Institute. The university-owned health system, which includes integrated outpatient and inpatient facilities, is contributing significantly to a strong partnership with the UM CTSA site. In addition to grant resources, the institution is contributing substantial in-kind support, cost-sharing, support of pilot and recruitment programs, and renovation costs, a more than 1:1 match of NIH dollars. The UM CTSA program includes an education program that reaches a wide spectrum of audiences from undergraduates to mid-career faculty, from basic scientists to population researchers, from staff to community members.

Web Site: <http://www.umich.edu>

University of Texas Southwestern Medical Center

The North and Central Texas Clinical and Translational Science Initiative will be led by the University of Texas Southwestern Medical Center at Dallas and will include schools of allopathic and osteopathic medicine, dentistry, nursing, pharmacy, public health, engineering, and computer science, which have already formed relationships supported by a Roadmap K12 award. A new Department of Clinical Sciences, which is supported by faculty from all participating schools, will serve as the academic home for the CTSA site. Existing infrastructure and support include a substantial financial commitment of participating institutions to the initiative, more than 200 established clinical and translational investigators who will act as faculty and mentors, and a large and medically diverse patient base cared for by established hospitals.

Web Site: <http://www.utsouthwestern.edu>

University of Washington

The Institute of Translational Health Sciences represents a consortium of six University of Washington (UW) health science professional schools with multiple partners that cover 12 performance sites, involve 67 key scientific personnel, and connect researchers to more than 150 centers. In addition, the Institute of Translational Health Sciences proposes to integrate major research and clinical institutions across a five-state region—Washington, Wyoming, Alaska, Montana, and Idaho (WWAMI)—via ongoing clinical and research collaboration pathways that are part of the WWAMI program led by the UW School of Medicine.

A unique feature of this CTSA site is its community engagement plan, which considers diversity across race, ethnicity, culture, rural and urban locations, geography, health status, and health service delivery with a targeted program for Alaska Natives and American Indians. The Institute of Translational Health Sciences will support an integrated ethics program linking adult and pediatric medical centers and the community. An additional unique feature is the site's advanced capability for therapeutic product development and clinical testing that will enhance future health care throughout the region. The Institute of Translational Health Sciences will foster new health sciences interactions across the sites through a variety of technology, education, and research support cores. The institute will guide, support, and facilitate translational research efforts that focus on expanded information collection, sharing and analysis, innovative scientific technologies, and critical support services aimed at accelerating health sciences research.

Web Site: <http://www.washington.edu>

University of Wisconsin–Madison

The University of Wisconsin–Madison, through its new Institute for Clinical and Translational Research (ICTR), will address how to translate biomedical discoveries into practices that improve health. The ICTR will take a new approach to research by producing interdisciplinary research scientists who can address health problems along a continuum—from basic laboratory investigations through clinical trials in patients and into population health studies in communities. The institute will provide researchers with an array of tools and will create feedback systems to ensure that research is relevant and addresses the health care needs of populations in Wisconsin.

The institute will be the hub of a network that fans across the university and extends around the state. People based at five schools on campus and several hospitals in Madison will be involved, as will experts at academic campuses on all points of the Badger State compass. New and existing statewide partnerships will be enhanced. Physicians and public health workers in towns and communities throughout the state will be essential players.

Web Site: <http://www.wisc.edu>

Vanderbilt University

The Vanderbilt Institute for Clinical and Translational Research will be created to focus on both bench-to-bedside and bedside-to-practice translation. Vanderbilt intends to remove impediments and release investigators from administrative burdens, produce inspired personnel trained in the bidirectional process of translational research, foster innovation by stimulating contributions from collaborators, and enrich the translational research environment with extensive state-of-the-art informatics tools as well as expert biostatistics support. The proposed institute will leverage Vanderbilt's existing NIH-funded General Clinical Research Center, which has been an established center generating clinical research for 50 years. The funds will also be used to establish a community engagement and research program, which will leverage the very strong ties of Vanderbilt to the community. Important to the overall success of the program is a focused partnership with Meharry Medical College. Also involved within Vanderbilt are the Institute for Medicine and Public Health; the schools of medicine, nursing, law, management, and engineering; the Peabody College of Education and Human Development; the College of Arts and Science; and the Kennedy Center for Research on Human Development.

Web Site: <http://www.vanderbilt.edu>

Washington University in St. Louis

The CTSA at Washington University (WU) in St. Louis will be implemented by creating a new Institute of Clinical and Translational Sciences designed to conceptually and operationally reinvent and reinvigorate clinical and translational research and research training. The Institute incorporates existing programs (M01, K12, K30, and T32) and WU's new BioMed 21 strategic initiative in multidisciplinary, collaborative research in genome sciences, biological imaging, and clinical investigation. It also involves an unprecedented level of partnership with other academic, health care, community, and scientific institutions in the St. Louis area. Partners include BJC HealthCare; Saint Louis University School of Public Health, Graduate School, and Doisy College of Health Sciences; University of Missouri; St. Louis College of Nursing; Southern Illinois University Edwardsville School of Nursing; and St. Louis College of Pharmacy; key organizations promoting community health; as well as biomedical and pharmaceutical companies in the St. Louis area. The Institute of Clinical and Translational Sciences will oversee 15 key programs, each designated to facilitate the safe and ethical conduct of research in humans.

Web Site: <http://www.wustl.edu>

Weill Cornell Medical College

The Clinical and Translational Science Center (CTSC)—comprising public/private institutions on the Upper East Side of Manhattan—is a unique and diverse biomedical complex providing investigators with state-of-the-art resources for conducting clinical and translational research.

Weill Cornell Medical College of Cornell University, the lead institution, serves as the conduit through which technological resources and educational programs are efficiently shared and managed. Neighboring institutions contribute significantly to the CTSC. The Hospital for Special Surgery, a leader in investigating musculoskeletal and autoimmune diseases, is one of two medical institutions designated by NIH as a Core Center for Skeletal Integrity. Memorial Sloan-Kettering Cancer Center is a cancer center where state-of-the-art basic science research flourishes side-by-side with clinical investigation and treatment at Memorial Hospital. Cornell University Cooperative Extension in New York City, engaged in research addressing the needs of a changing New York for more than 50 years, will be the linchpin for community outreach. Hunter College Gene Center's Research Center in Minority Institutions recruits and nurtures minority talent and has established an effective electronic network with minority scientists nationwide. Hunter College School of Nursing, training nurses from a diverse urban population, will participate in community outreach and education in underserved areas.

Web Site: <http://www.med.cornell.edu/ctsc>

CTSA Clinical & Translational Science Awards

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