

60 INSTITUTIONS

CTSAS ARE ALL BACKED BY AND INTEGRATED WITH LEADING ACADEMIC MEDICAL CENTERS

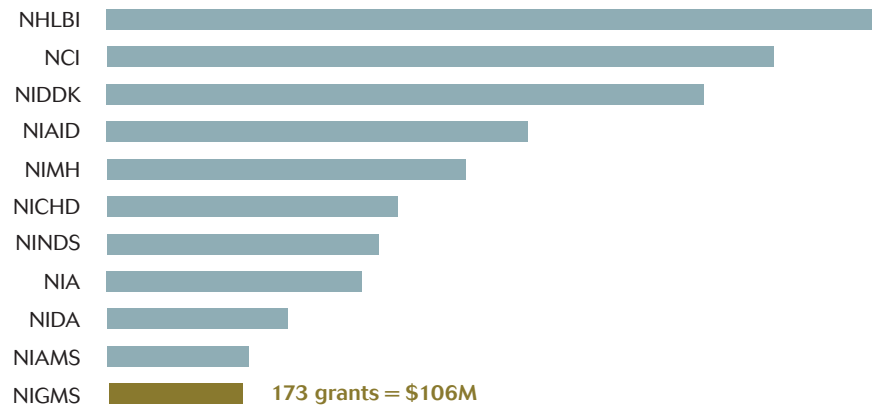
Albert Einstein College of Medicine • Boston University • Case Western Reserve University • Children's National Medical Center • Columbia University • Duke University • Emory University • Georgetown University and Howard University • Harvard University • Indiana University School of Medicine • Johns Hopkins University • Mayo Clinic • Medical College of Wisconsin • Medical University of South Carolina • Mount Sinai School of Medicine • New York University School of Medicine • Northwestern University • The

Ohio State University • Oregon Health & Science University • Penn State • Milton S. Eshelman Center • The Rockefeller University • The Scripps Research Institute • Stanford University • Tufts University • The University of Alabama at Birmingham • University of Arkansas for Medical Sciences • University of California, Davis • University of California, Irvine • University of California, Los Angeles* • University of California, San Diego • University of California, San Francisco • University of Chicago • University of Cincinnati •

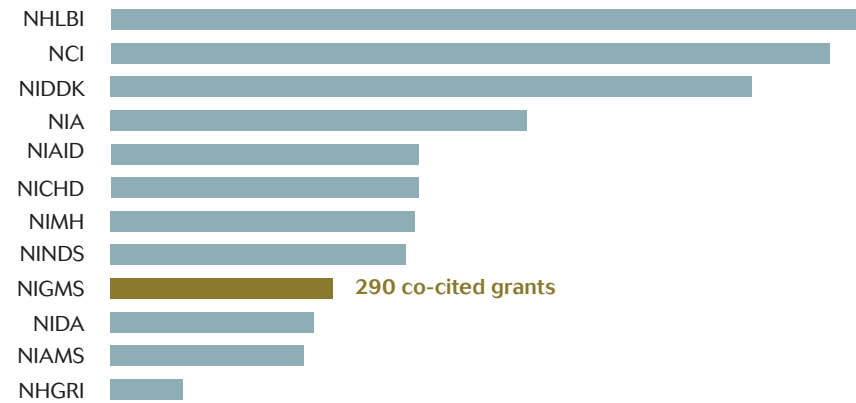
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center* • University of Kentucky* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities* • University of New Mexico Health Sciences Center • The University of North Carolina at Chapel Hill • University of Pennsylvania • University of Pittsburgh • University of Rochester School of Medicine and Dentistry • University of

Southern California • The University of Texas Health Science Center at Houston • The University of Texas Health Science Center at San Antonio • The University of Texas Medical Branch at Galveston • The University of Texas Southwestern Medical Center at Dallas • The University of Utah • University of Washington • University of Wisconsin—Madison • Vanderbilt University • Virginia Commonwealth University • Washington University in St. Louis • Weill Cornell Medical College • Yale University

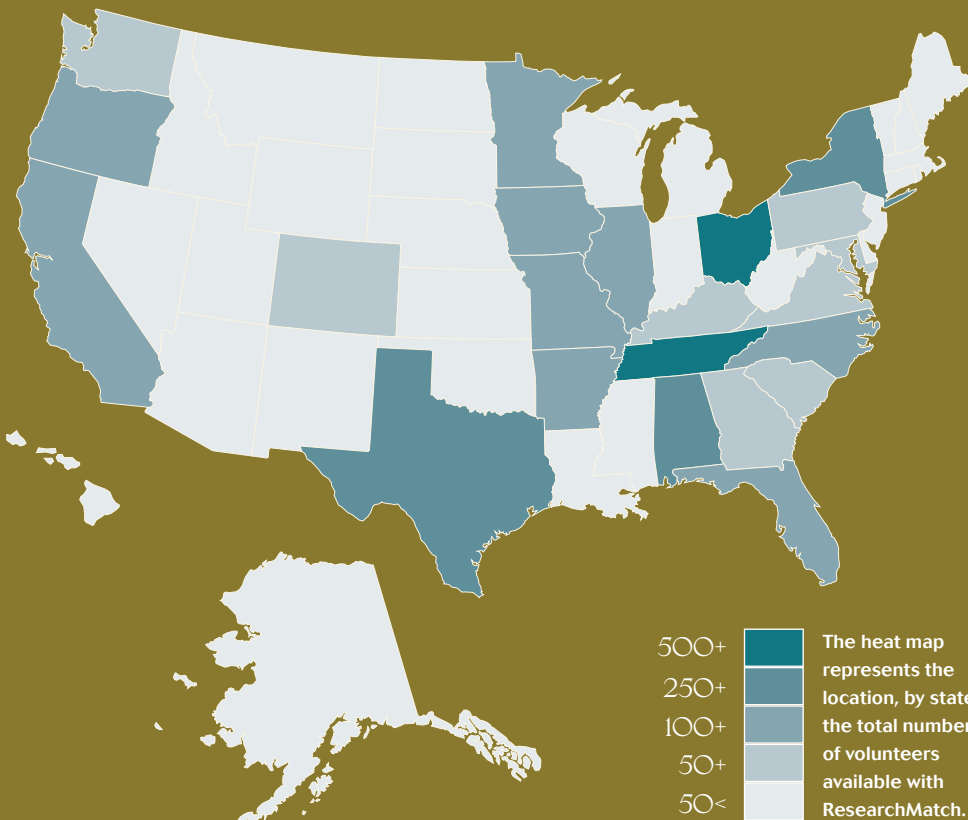
5,886 UNIQUE GRANTS WERE AWARDED FOR CTSA-SUPPORTED WORK



5,375 PUBLICATIONS BY CTSA-SUPPORTED RESEARCHERS RECEIVED CTSA SUPPORT



* All data based on 2010 reporting



Volunteers

available in ResearchMatch

19,759 Volunteers ready to participate in studies



	Total	General medicine related studies	% General medicine related studies
Active studies	301	11	4%
Institutions	65	6	9%

CTSA

NIGMS ANNUAL SUMMARY 2011

The CTSA support the innovation and partnerships necessary to bridge the traditional divides between basic research and medical practice. The combination of resources and collaboration made possible by these awards is essential for developing and delivering new treatments and prevention strategies.

NIH Director Francis S. Collins, M.D., Ph.D.

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REDCAP FOR NIGMS

The CTSAs supported REDCap tool is used by 418 active institutional partners including almost all CTSAs. REDCap is designed to support data capture for research studies and allows users to build and manage online surveys and databases quickly and

securely. It is currently in production use or development build status for more than 40,430 studies with over 54,120 users spanning numerous research focus areas including those of critical importance to NIGMS. REDCap includes studies such as:

The potential of internet-based technologies for sharing data of public health importance.

Fegan G, Moulds M, Todd J.
Bull World Health Organ. 2011 Feb 1;89(2):82.

Efficient data management in a large-scale epidemiology research project

Meyer J, Ostrzinski S, Fredrich D, Havemann C, Krafczyk J, Hoffmann W.
Comput Methods Programs Biomed. 2011 Jan 20.

ABOUT CTSA

The CTSA program creates academic homes for clinical and translational science at 60 health research institutions nationwide. The CTSAs are committed to reducing the time it takes for laboratory discoveries to become treatments for patients, to engaging communities in clinical research efforts, and to training a new generation of clinical and translational researchers. The CTSA program is funded by the National Institutes of Health through its National Center for Advancing Translational Sciences.

Each CTSA site is required to provide the following resources:

- Regulatory support
- Pilot funding
- Clinical research facilities
- Informatics
- Education, training and career development
- Community engagement
- Biostatistics

Consortium activities focus on:

- Clinical and Translational Research Management Capability
- Training and Career Development of Clinical and Translational Scientists
- Enhancing Consortium-Wide Collaborations
- Enhancing the Health of Our Communities and the Nation
- T1 Translation



Kimber Stanhope, Ph.D., M.S.

Nutritional biologist,
University of California Davis

INVESTIGATOR SPOTLIGHT

Kimber's pioneering studies on fructose reveal new information on the metabolic effects of sugar consumption. Her studies help lay the foundation for advances in disease, diagnosis, treatment and prevention. Her current CTSA-supported investigation, which will continue to 2015, may provide important new information for revised nutritional guidelines for sugar consumption.

She has been interviewed by Sanjay Gupta, CNN's chief medical reporter and 60 Minutes guest correspondent for medical science stories. Stanhope credits the Clinical and Translational Science Center resources and staff for contributing to the success of her studies.



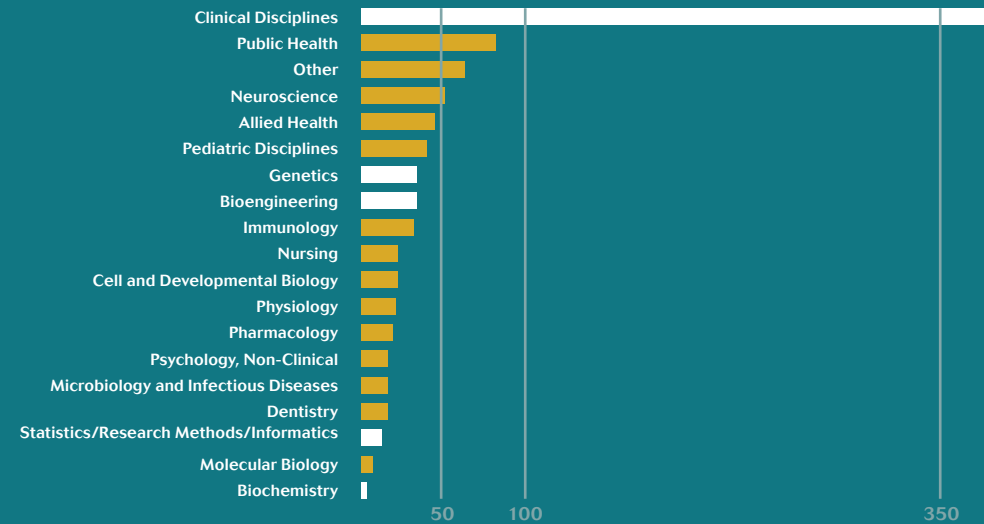
Jesse Perry

VOLUNTEER SPOTLIGHT

Jesse has participated in several trials testing old and new drugs to find effective treatments for orthostatic hypotension.

"I can't expound enough how the trials are beneficial," he said. "It is an education; you work with the doctors to help yourself and them at the same time. It is a win-win."

CTSAs supported 930 clinical and translational scholars and trainees in 2010.



HIGH-END INSTRUMENTATION

Many of the CTSA Institutions support High-End Instrumentation grants. The NCRH High-End Instrumentation grant program supported the purchase of research equipment that costs more than \$750,000. Instruments in this price range include structural and functional imaging systems, macromolecular NMR spectrometers, high-resolution mass spectrometers, electron microscopes and supercomputers. These highly specialized instruments support research aimed at advancing disease diagnosis, treatment and prevention in a wide variety of scientific fields.



- Spectrometers
- Magnets/Microscopy
- Computational
- HTS/Genomics

CTSA helps plant seeds for meaningful research.

ESTIMATED 1,898 PILOT STUDIES

NIGMS-related work: 31
Based on 36 out of 60 reporting sites.



PRELIMINARY RESULTS/ FINDINGS



MANUSCRIPTS



NIH GRANT SUBMISSIONS



PEER-REVIEWED SCIENTIFIC PROGRAMS



CTSA projects are of excellent quality and CTSA-supported investigators publish in high impact journals.

Visibility: Examples of high impact

CTSA SUPPORT	PUBLISHED TITLE	INSTITUTION/ REFERENCE
Support from the CTSA Genome-Wide Association Study (GWAS) Innovative Methodology Workgroup	Large-scale candidate gene analysis in whites and African-Americans identifies IL6R polymorphism in relation to atrial fibrillation: the National Heart, Lung, and Blood Institute's Candidate Gene Association Resource (CARE) project	Johns Hopkins University /Circ Cardiovasc Genet. 2011 Oct; 4(5): 557-64. Epub 2011 Aug 16.
Pilot award	A mathematical model of ischemic cutaneous wounds	The Ohio State University /Proc Natl Acad Sci U S A. 2009 Sep 29;106(39):16782-7. Epub 2009 Sep 21.
Support from the CTSA Genome-Wide Association Study (GWAS) Innovative Methodology Workgroup	Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk	Johns Hopkins University /Nature. 2011 Sep 11; 478(7367):103-9.
Support from the CTSA-funded computational biology core	Genome3D: a viewer-model framework for integrating and visualizing multi-scale epigenomic information within a three-dimensional genome	University of South Carolina /BMC Bioinformatics. 2010 Sep 2;11:444.
CTSA-supported K-scholar	Mapping the NPHP-JBTS-MKS protein network reveals ciliopathy disease genes and pathways	University of Washington /Cell. 2011 May 13; 145(4): 513-28.