

60 INSTITUTIONS

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

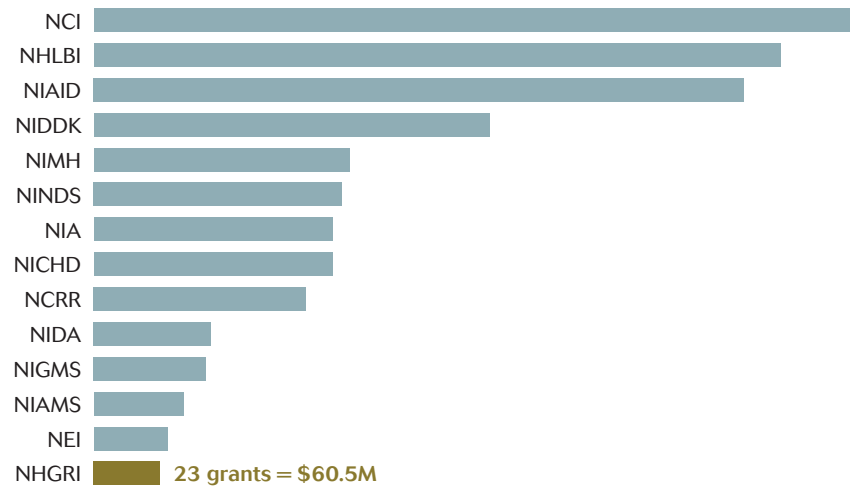
Albert Einstein College of Medicine • Boston University • Case Western Reserve University • Children's National Medical Center • Columbia University • Duke University • Emory University • Georgetown University and Howard University • Harvard University • Indiana University School of Medicine • Johns 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 •

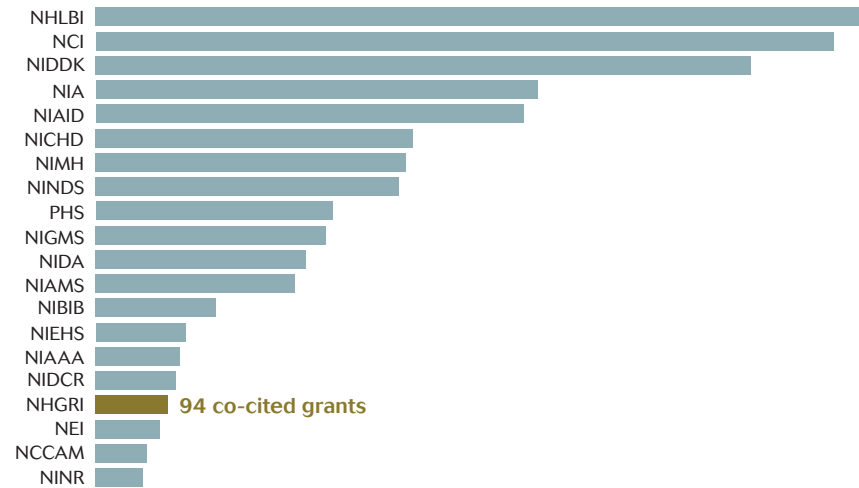
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center* • University of Kentucky* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities* • 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



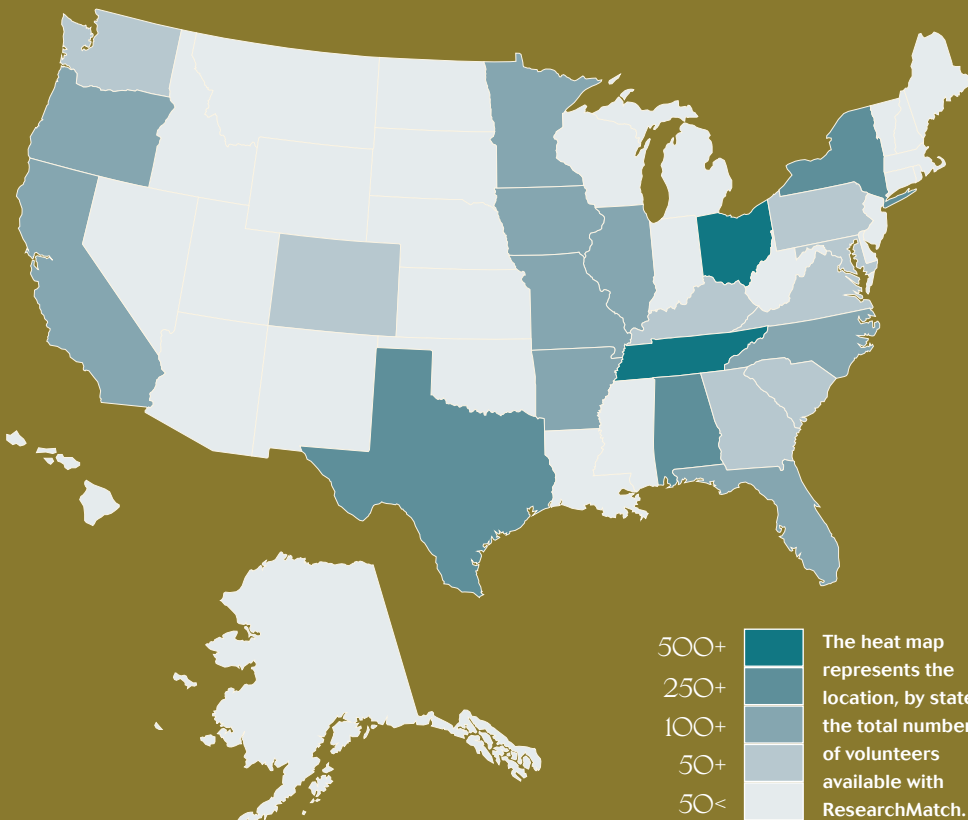
5,375 PUBLICATIONS BY CTSA-SUPPORTED RESEARCHERS RECEIVED CTSA SUPPORT



* All data based on 2010 reporting

CTSA

NHGRI ANNUAL SUMMARY 2011



Volunteers

available in ResearchMatch

19,759

Volunteers ready to participate in studies



	Total	Genetics related studies	% Genetics related studies
Active studies	301	9	3%
Institutions	65	6	9%

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 NHGRI

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 NHGRI. REDCap includes studies such as:

Impact of Direct-to-Consumer Predictive Genomic Testing on Risk Perception and Worry Among Patients Receiving Routine Care in a Preventive Health Clinic

James KM, Cowl CT, Tilburt JC, Sinicrope PS, Robinson ME, Frimannsdottir KR, Tiedje K, Koenig BA. *Mayo Clin Proc.* 2011 Oct;86(10):933-40.

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. [Epub ahead of print].

BioBanks

23 of the 65 CTSAs institutions support BioBanks

# of CTSAs-supported BioBanks	Types of specimens available
12	Blood
2	Cerebrospinal Fluid
11	DNA
15	Plasma
4	Saliva
11	Serum
16	Tissue
13	Urine
1	Bone Marrow
2	Peripheral Blood Mononuclear Cell
1	Formalin-fixed, Paraffin-embedded (FFPE) tissue



ABOUT CTSAs

The CTSAs 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 CTSAs program is funded by the National Institutes of Health through its National Center for Advancing Translational Sciences.

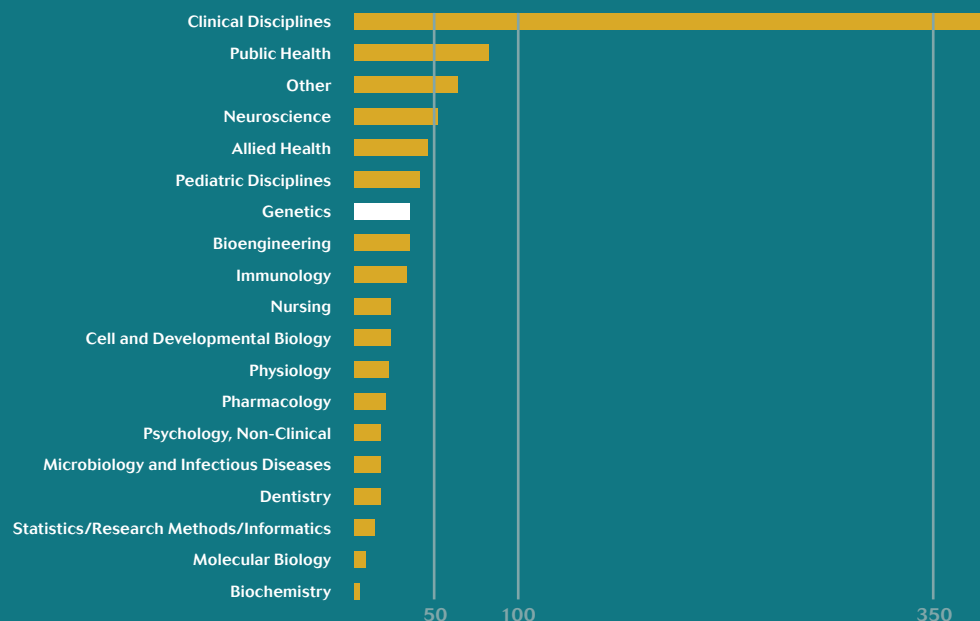
Each CTSAs site is required to provide the following resources:

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

Consortium activities focus on:

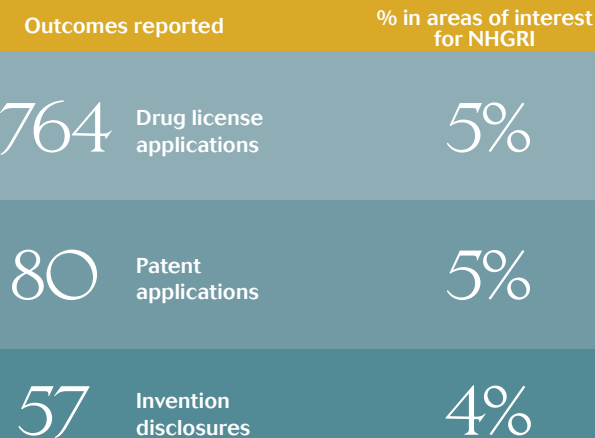
- Clinical and Translational Research Management Capability
- Training and Career Development of Clinical and Translational Scientists
- Enhancing Consortium-Wide Collaborations
- Enhancing the Health of Our Communities and the Nation
- T1 Translation

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



Drugs, biologics and devices

Food and Drug Administration



Visibility: Examples of high impact

CTSA SUPPORT	PUBLISHED TITLE	INSTITUTION/REFERENCE
Pilot grant	Using VAAST to Identify an X-Linked Disorder Resulting in Lethality in Male Infants Due to N-Terminal Acetyltransferase Deficiency	The Scripps Research Institute /Am J Hum Genet. 2011 Jul 15; 89(1):28-43. Epub 2011 Jun 23.
CTSA phlebotomy services: Support from the Johns Hopkins CTSA Genome-Wide Association Study (GWAS) Innovative Methodology Workgroup	Common variants in KCNN3 are associated with lone atrial fibrillation	Case Western Reserve University, Johns Hopkins University, The Scripps Research Institute /Nat Genet. 2010 Mar; 42(3):240-4. Epub 2010 Feb 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
Biobank and informatics support	Electronic medical records for genetic research: results of the eMERGE consortium	Vanderbilt University /Sci Transl Med. 2011 Apr 20; 3(79):79re1



Dan Arking, Ph.D.

McKusick-Nathans Institute of Genetic Medicine
Johns Hopkins University School of Medicine

INVESTIGATOR SPOTLIGHT

Dan's research focuses on genomics of complex human disease. He has participated in a large-scale gene analysis examining the genetic background of atrial fibrillation in whites and African-Americans. The CTSAs-supported multicenter study had more than 24 investigators working on the Candidate Gene Association Resource (CARE) Project, looking at cardiovascular genetics. In the community-based study, genes of thousands of participants were examined. Dan's research also focuses on sudden cardiac death, and he has used the genome-wide Investigator Spotlight.

CTSAs help plant seeds for meaningful research.

ESTIMATED 1,898 PILOT STUDIES

NHGRI-related work: 118
Based on 36 out of 60 reporting sites.



PRELIMINARY RESULTS/ FINDINGS



MANUSCRIPTS



NIH GRANT SUBMISSIONS



PEER-REVIEWED SCIENTIFIC PROGRAMS



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