

60 INSTITUTIONS

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

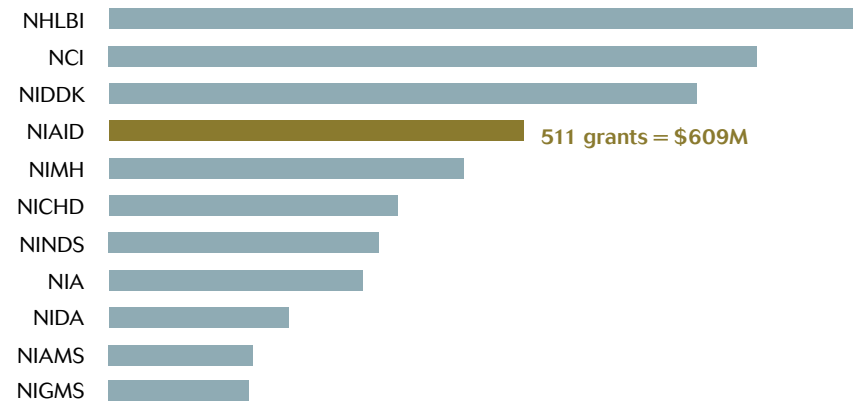
Albert Einstein College of Medicine • Boston University • Case Western Reserve University • Children's National Medical Center • Columbia University • Duke University • Emory University • Georgetown University and Howard University • Harvard University • Indiana University School of Medicine • Johns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

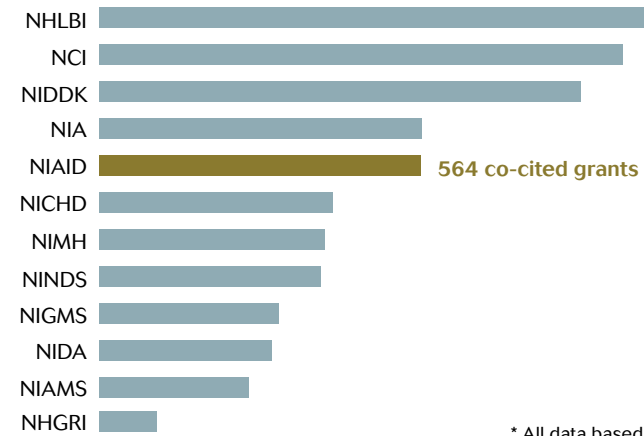
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center* • University of Kentucky* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities* •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

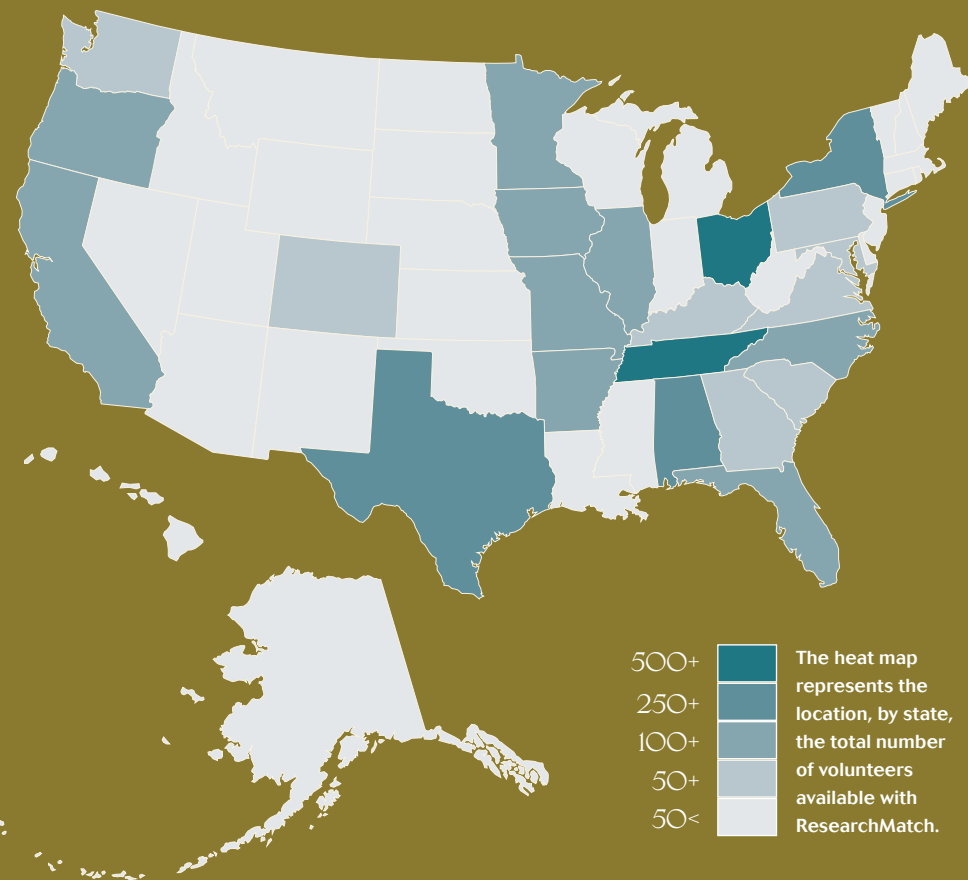
5,886 UNIQUE GRANTS WERE AWARDED FOR CTSA-SUPPORTED WORK



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



* All data based on 2010 reporting



Volunteers available in ResearchMatch

	Total	Allergy and Infectious Disease Related Studies	% Allergy and Infectious Disease Related Studies
Volunteers ready to participate in studies	19,759	3,402	17%
Active studies	301	34	11%
Institutions	65	18	28%

CTSA

NIAID 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.

This Clinical and Translational Science Awards (CTSA) consortium publication is funded in part by U.S. National Institutes of Health Grant 1U54RR032646-01. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the NIH.

REDCAP FOR NIAID

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 NIAID. **REDCap includes studies such as:**

The Acute Asthma Severity Assessment Protocol (AASAP) study: objectives and methods of a study to develop an acute asthma clinical prediction rule. Arnold DH, Gebretsadik T, Abramo TJ, Sheller JR, Resha DJ, Hartert TV. *Emerg Med J.* 2011 May 17. [Epub ahead of print].

Noninvasive assessment of asthma severity using pulse oximeter plethysmograph estimate of pulsus paradoxus physiology. Arnold DH, Jenkins CA, Hartert TV. *BMC Pulm Med.* 2010 Mar 29;10:17.

A clinical use case to evaluate the i2b2 Hive: predicting asthma exacerbations. Meystre SM, Deshmukh VG, Mitchell J. *AMIA Annu Symp Proc.* 2009 Nov 14;2009:442-6.

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



VOLUNTEER SPOTLIGHT

Crystal Hayduk

Crystal volunteers with her family in research studies. Her child was part of a study comparing types of flu vaccine.

After getting blood drawn, participants were given the vaccine or a placebo in the randomized study. She hoped the study would help researchers learn more about the nasal mist vaccine since her family has an aversion to needles.

"It was a proud moment when my children got the FluMist vaccine this year, and, best of all, no tears," she said.



INVESTIGATOR SPOTLIGHT

David Margolis, M.D.

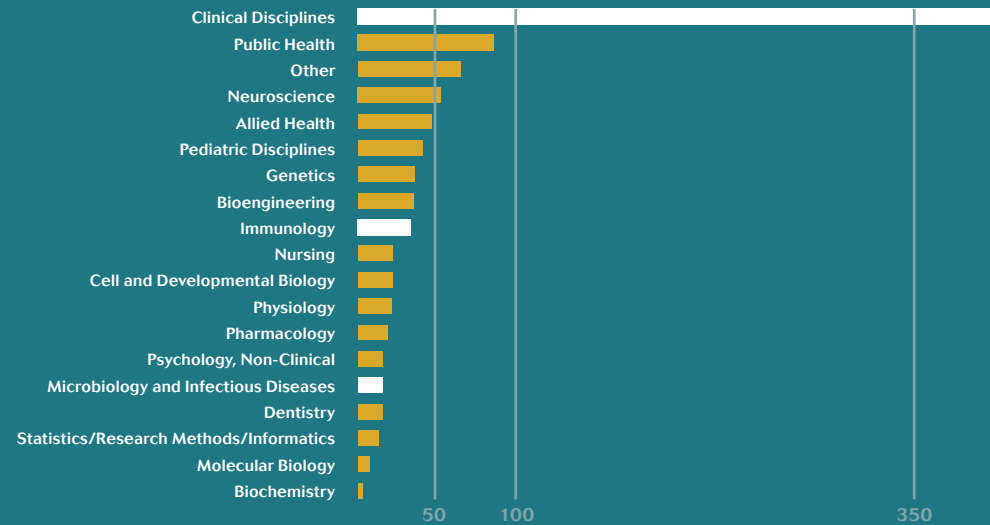
Professor of Medicine
Microbiology, Immunology and Epidemiology
University of North Carolina at Chapel Hill

David's study revealing dormant HIV infection was the first to show that the biological mechanism that keeps the virus hidden and unreachable by antiviral therapies can be targeted and interrupted.

In a clinical trial, six HIV-infected men received vorinostat, an oncology drug.

His work on HIV was featured in *Bloomberg News* and *Wired* magazine. His goal to find a cure for HIV is supported by the North Carolina Translational and Clinical Sciences Institute at UNC, one of 60 medical research institutions in the U.S. working to improve biomedical research through the CTSA program.

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



Drugs, biologics and devices

Food and Drug Administration

Outcomes reported % NIAID activity

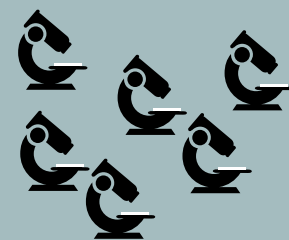
764 Drug license applications 10%

80 Patent applications 8%

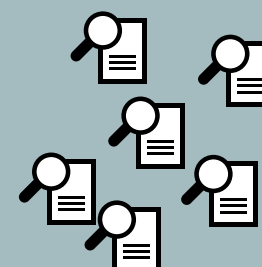
CTSA helps plant seeds for meaningful research

ESTIMATED 1,898 PILOT STUDIES

NIAID-related work: 110
Based on 36 out of 60 reporting sites.



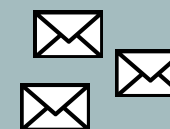
PRELIMINARY RESULTS/ FINDINGS



MANUSCRIPTS



NIAID 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
Clinical Research Center	Maternal consumption of peanut during pregnancy associated with peanut sensitization in atopic infants	Mount Sinai School of Medicine; Duke University/J Allergy Clin Immunol. 2010 Dec;126(6):1191-7. Epub 2010 Oct 28.
Clinical Research Center	Preexposure Chemoprophylaxis for HIV Prevention in Men Who Have Sex with Men	University of California, San Francisco/N Engl J Med. 2010 Dec 30;363(27):2587-99. Epub 2010 Nov 23.
Clinical Research Center	Rituximab versus Cyclophosphamide for ANCA-Associated Vasculitis	Mayo Clinic; Boston University/N Engl J Med. 2010 Jul 15;363(3):221-32.
Pilot Award	Familial aggregation of autoimmune disease in juvenile dermatomyositis	University of Chicago / Pediatrics. 2011 May;127(5):e1239-46. Epub 2011 Apr 18.
CTSA supported K-scholar who received a Clinical Research Coordinator award	Corticosteroids and outcome in children undergoing congenital heart surgery: analysis of the Pediatric Health Information Systems database	Duke University / Circulation. 2010 Nov 23;122(21):2123-30. Epub 2010 Nov 8.