

60 INSTITUTIONS

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

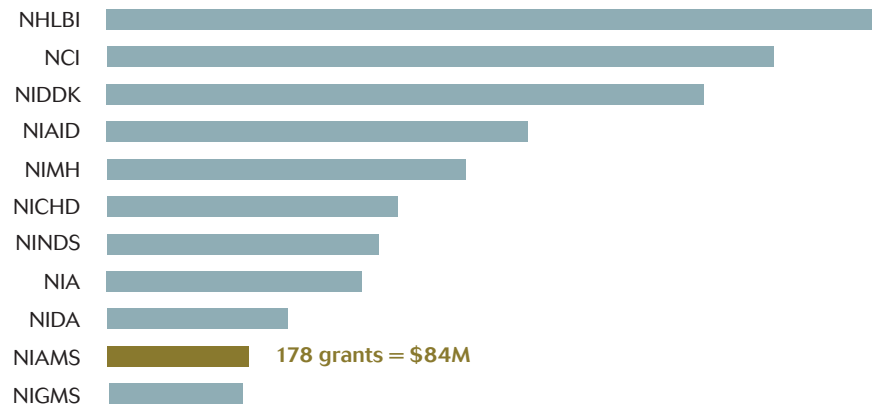
Albert Einstein College of Medicine • Boston University • Case Western Reserve University • Children's National Medical Center • Columbia University • Duke University • Emory University • Georgetown University and Howard University • Harvard University • Indiana University School of Medicine • Johns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

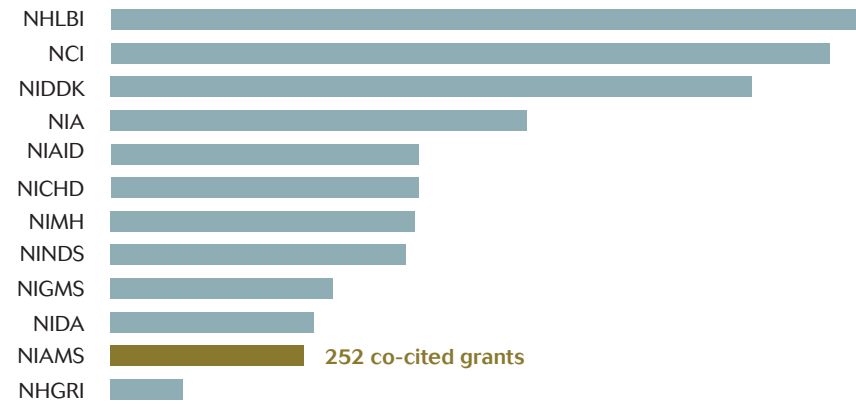
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center* • University of Kentucky* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities* •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

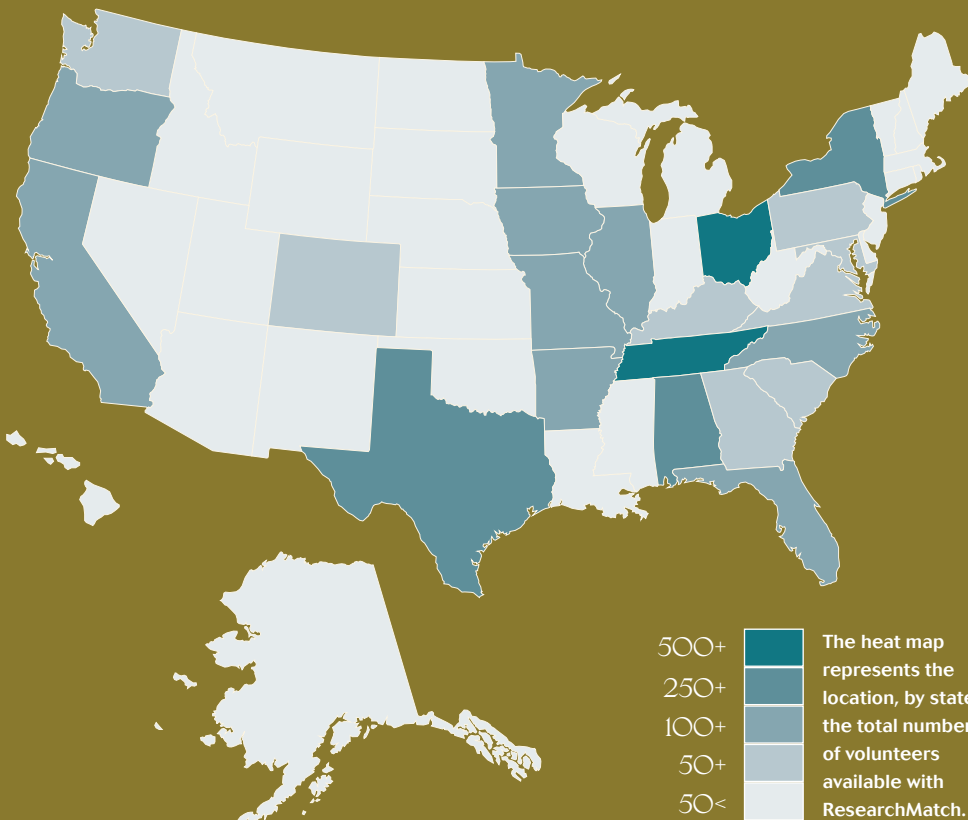
5,886 UNIQUE GRANTS WERE AWARDED FOR CTSA-SUPPORTED WORK



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



* All data based on 2010 reporting



Volunteers available in ResearchMatch

	Total	Arthritis and Musculoskeletal and Skin Diseases Related Studies	% Arthritis and Musculoskeletal and Skin Diseases Related Studies
Volunteers ready to participate in studies	19,759	2,140	11%
Active studies	301	1	0.3%
Institutions	65	1	1.5%

CTSA

NIAMS 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 NIAMS

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 NIAMS. REDCap includes studies such as:

Correlates of systemic disease in adult Henoch-Schönlein purpura: A retrospective study of direct immunofluorescence and skin lesion distribution in 87 patients at Mayo Clinic.

Poterucha TJ, WeZer DA, Gibson LE, Camilleri MJ, Lohse CM. J Am Acad Dermatol. 2012 Jan 11. [Epub ahead of print].

Clinical Symptoms of Skin, Nails, and Joints Manifest Independently in Patients with Concomitant Psoriasis and Psoriatic Arthritis.

Wittkowski KM, Leonardi C, Gottlieb A, Menter A, Krueger GG, Tebbey PW, Belasco J, Soltani-Arabshahi R, Gray J, Horn L, Krueger JG; for the International Psoriasis Council. PLoS One. 2011;6(6):e20279. Epub 2011 Jun 1.

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

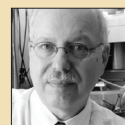


Leigh Callahan, Ph.D.

Director, Multidisciplinary Clinical Research Center's Methodology Core
Thurston Arthritis Research Center,
UNC Chapel Hill

INVESTIGATOR SPOTLIGHT

Leigh has authored more than 170 publications and articles on arthritis, including musculoskeletal and health outcomes, and health disparities. She's worked with other researchers on an extensive CTSA-supported study on rheumatoid arthritis and risk alleles in African-Americans and people of European ancestry. She is the former arthritis epidemiologist at the Centers for Disease Control and Prevention. Her investigations support the mission of NIAMS, which is to look into the causes, treatment and prevention of arthritis as well as musculoskeletal and skin diseases.



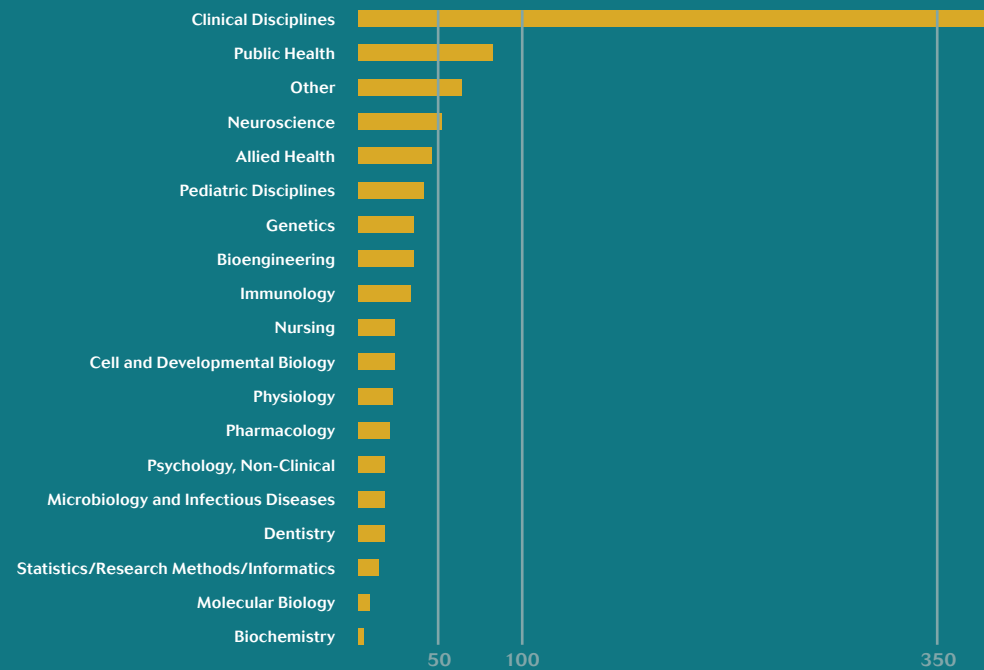
Ronald Silverman, Ph.D.

Weill Cornell Medical College

INVESTIGATOR SPOTLIGHT

Ronald and Ying-Chih Chen, Ph.D., a physicist at the Center for the Study of Gene Structure and Function at Hunter College of the City University of New York, developed a new method to detect eye and skin abnormalities. Using 18 months of CTSA-supported pilot funding, they collaborated to create a photoacoustic imaging device that allows imaging at a greater depth, improving evaluation of diseases of the eyes and other superficial tissues.

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



Drugs, biologics and devices

Food and Drug Administration

Total Outcomes reported

764 Drug license applications

% of interest to NIAMS

6%

80 Patent applications

9%

Visibility: Examples of high impact

CTSA SUPPORT	PUBLISHED TITLE	INSTITUTION/ REFERENCE
Used the 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.
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.
CTSA assistance with the Research Resource Inventory	Cancer risk among patients with myotonic muscular dystrophy	University of Rochester School of Medicine and Dentistry /JAMA. 2011 Dec 14; 306(22):2480-6.
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 helps plant seeds for meaningful research.

ESTIMATED 1,898 PILOT STUDIES

NIAMS-related work: 30
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.