



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

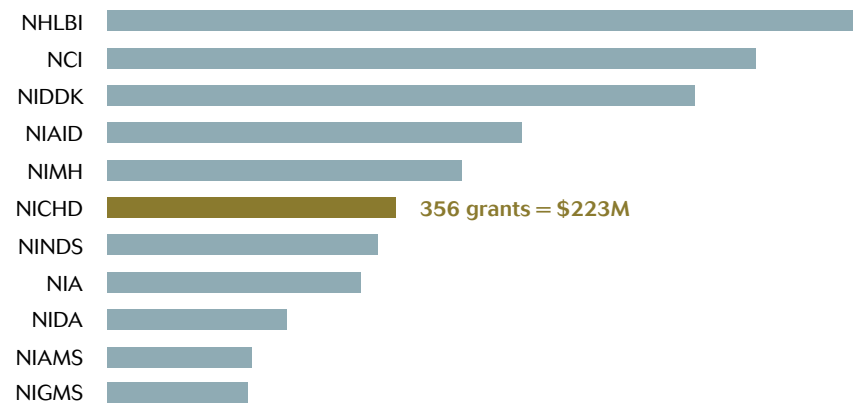
Albert Einstein College of Medicine • Boston University • Case Western Reserve University • Children's National Medical Center • Columbia University • Duke University • Emory University • Georgetown University and Howard University • Harvard University • Indiana University School of Medicine • Johns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

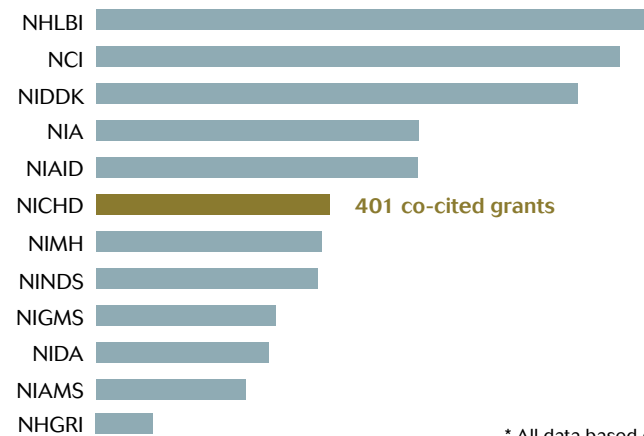
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center* • University of Kentucky* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities* •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

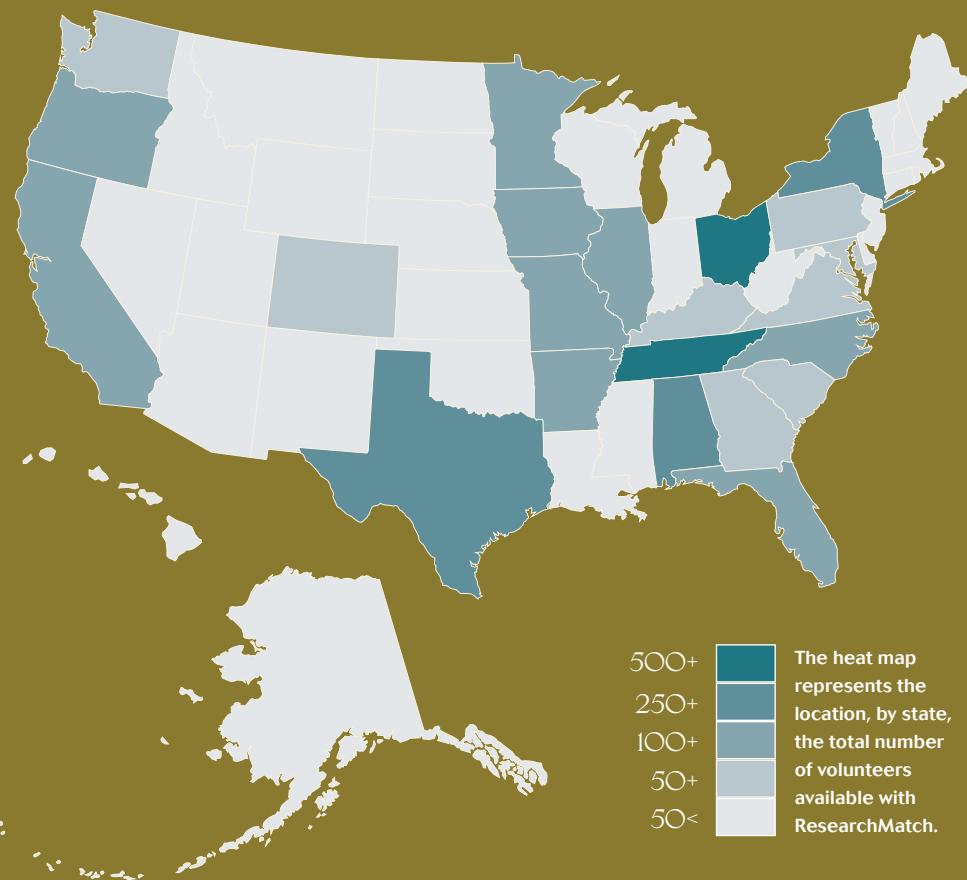
5,886 UNIQUE GRANTS WERE AWARDED FOR CTSA-SUPPORTED WORK



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



* All data based on 2010 reporting



Volunteers available in ResearchMatch

	Total	Children's Health-Related Studies	% Children's Health-Related Studies
Volunteers ready to participate in studies	19,759	914	5%
Active studies	301	21	7%
Institutions	65	11	17%

CTSA

NICHD
ANNUAL SUMMARY 2011

The CTSAs 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 NICHD

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

Using mobile phones to measure adolescent diabetes adherence. *Health Psychol.* 2011 Oct 3.

The APA and the Rise of Pediatric Generalist Network Research. Wasserman R, Serwint JR, Kuppermann N, Srivastava R, Dreyer B. *Acad Pediatr.* 2011 Jan 29.

Pediatric Neurological Complications of 2009 Pandemic Influenza A (H1N1). Kedia S, Stroud B, Parsons J, Schreiner T, Curtis DJ, Bagdure D, Brooks-Kayal AR, Glode MP, Dominguez SR. *Arch Neurol.* 2010 Dec 13.

Maternal smoking cessation and reduced academic and behavioral problems in offspring. Piper BJ, Gray HM, Birkett MA. *Drug Alcohol Depend.* 2011 Sep 19.

Use of drugs known to cause fetal harm among women delivering infants in Haiti. Jules A, Kaltenbach LA, Arbogast PG, Caples TL, Po'e EK, Cooper WO. *Acad Pediatr.* 2010 Nov-Dec;10(6):395-9.

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

Sayoni Saha

Sayoni, a 17-year-old high school senior, volunteers at the CTSA-supported UC Irvine Down Syndrome Program. She has been featured in the *Orange County Register* for her work.

Sayoni started a behavioral study of self-concept in children with Down Syndrome. This program presents researchers with an opportunity to conduct new clinical trials to evaluate and advance improved treatment plans. She has spent hundreds of hours working on the project and is the youngest intern in the Down Syndrome project, according to the report. She is a finalist in the prestigious Intel Science Talent Search competition.



SCIENCE SPOTLIGHT

Mary Wolff, Ph.D.

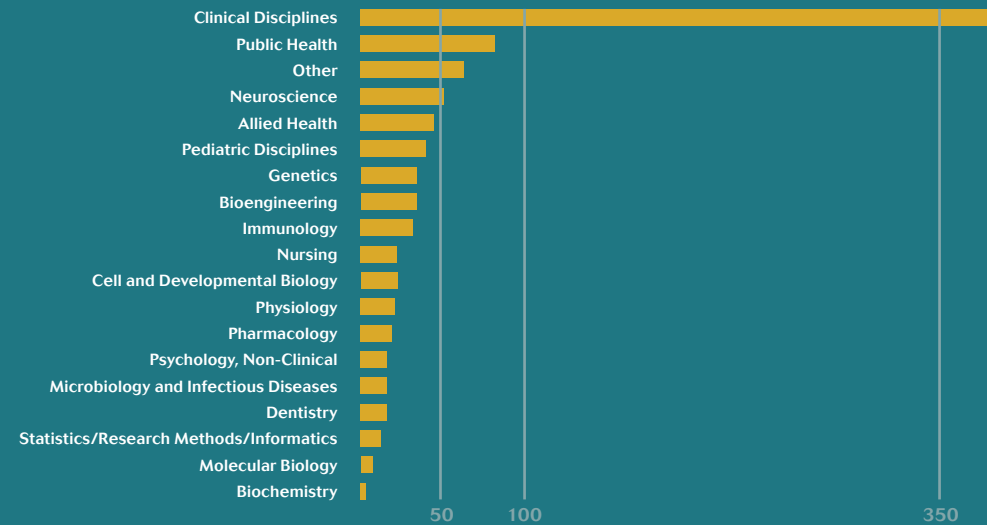
Director, Center for Children's Environmental Health and Disease Prevention Research

Mary directs a CTSA-supported multicenter program that investigates environmental risks for early puberty in black and Latina children.

The team of researchers engaged 1,115 girls between ages 6 and 8 from high-risk communities such as East Harlem in New York, greater Cincinnati and northern California.

The girls, who had been exposed to three common chemical classes, faced issues with the timing of puberty development and were at risk for health complications later in life, the multicenter study showed.

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

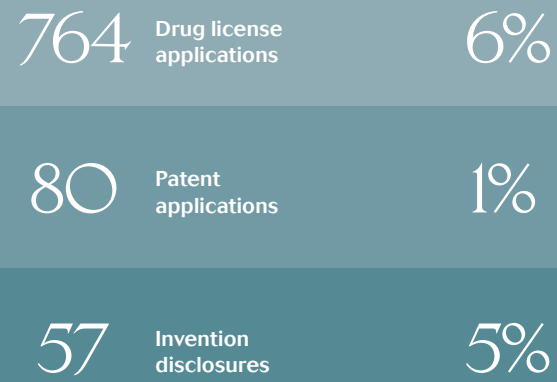


Drugs, biologics and devices

Food and Drug Administration

Outcomes reported

% NICHD activity



Visibility: Examples of high impact

CTSA SUPPORT

PUBLISHED TITLE

INSTITUTION/ REFERENCE

Clinical Research Center award to a K-Scholar

Corticosteroids and Outcome in Children Undergoing Congenital Heart Surgery

Duke University/ *Circulation.* 2010 Nov 23;122(21):2123-30. Epub 2010 Nov 8.

Support for:

- IRB filing
- Filing and monitoring IND application
- Data and safety monitoring
- FDA inspections
- Study database
- Biostatistical data analysis

Efficacy of Intravitreal Bevacizumab for Stage 3+ Retinopathy of Prematurity

University of Texas Health Science Center at Houston/BEAT-ROP Cooperative Group. *N Engl J Med.* 2011 Feb 17;364(7):603-15.

CTSA Phenotyping and DNA assistance from the Clinical Services Core

Fetal ERAP2 variation is associated with preeclampsia in African Americans in a case-control study

Virginia Commonwealth University/BMC Med Genet. 2011 May 11;12:64. 23;122(21):2123-30.

Pilot award, CTSA phenotyping and DNA assistance from the Clinical Services Core

Using VAAST to Identify an X-Linked Disorder

The University of Utah/ *Am J Hum Genet.* 2011 Jul 15;89(1):28-43. Epub 2011 Jun 23. Erratum in: *Am J Hum Genet.* 2011 Aug 12

HOW THE CTSA CONSORTIUM CHILD HEALTH OVERSIGHT COMMITTEE SUPPORTS THE NICHD'S MISSION

CC-CHOC's Mission

- Provide a unique national forum to identify collaborative opportunities to facilitate child health clinical and translational research
- Set priorities and increase visibility for child health research across the CTSA Consortium
- Improve child health outcomes through high-quality science

Pediatric Therapeutic Development

- A Data Quality Workshop held in October 2011 brought together CTSAs, NIH, FDA, CROs and industry.
- The Federated IRB Model is in use at 36 National Children's Study sites and the NICHD Neonatal Research Network.

Advocacy for Lifespan Research

- Metrics of Success Publication: "Tracking the Impact of the NIH and CTSAs on Child Health Research: Developing and Evaluating a Measurement Strategy"
- A Pediatric Exercise Data Harmonization Project seminar was held in December 2011.
- A Lifespan Research Symposium was conducted at the May 2012 PAS Meeting.

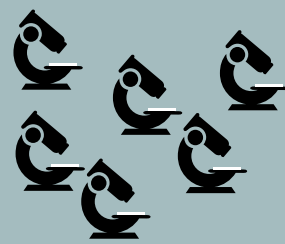
Research, Education and Training

- A survey to find KL2-supported child health investigators in the CTSA consortium has been conducted.
- With input from NICHD, we will track career trajectories of child health KL2 scholars identified in the survey.

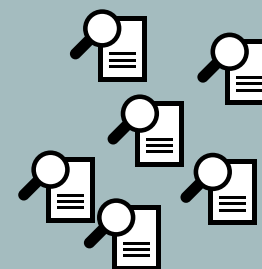
CTSA helps plant seeds for meaningful research.

ESTIMATED 1,898 PILOT STUDIES

NICHD-related work: 136
Based on 36 out of 60 reporting sites.



PRELIMINARY RESULTS/ FINDINGS



MANUSCRIPTS



NICHD GRANT SUBMISSIONS



PEER-REVIEWED SCIENTIFIC PROGRAMS



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