

# 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 •

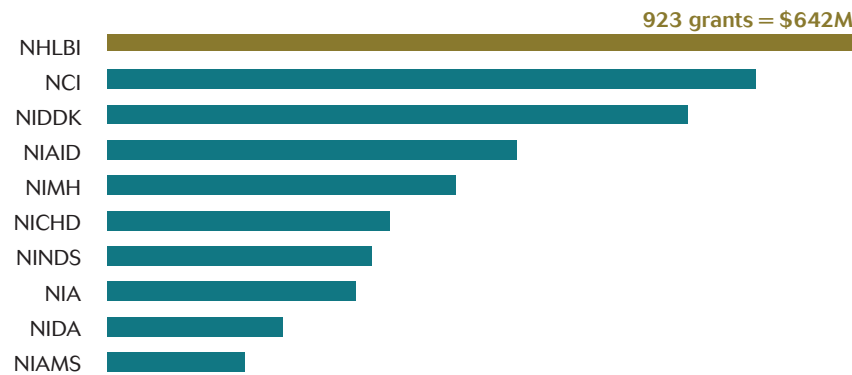
University of Colorado Denver • University of Florida • University of Illinois at Chicago • The University of Iowa • University of Kansas Medical Center\* • University of Kentucky\* • University of Massachusetts Medical School Worcester • University of Michigan • University of Minnesota, Twin Cities\*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

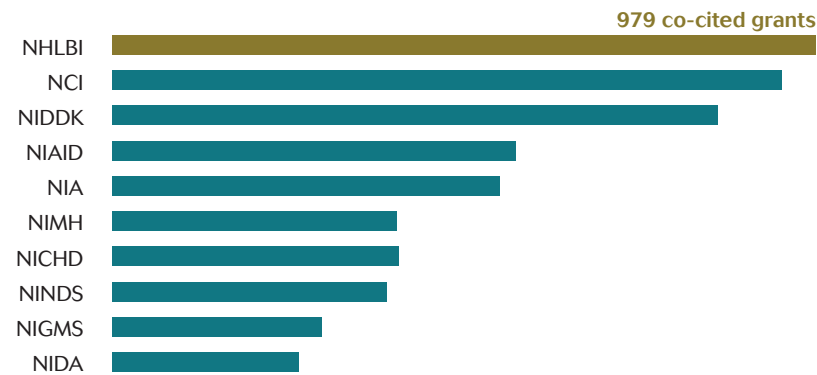
# CTSA

## NHLBI ANNUAL SUMMARY 2011

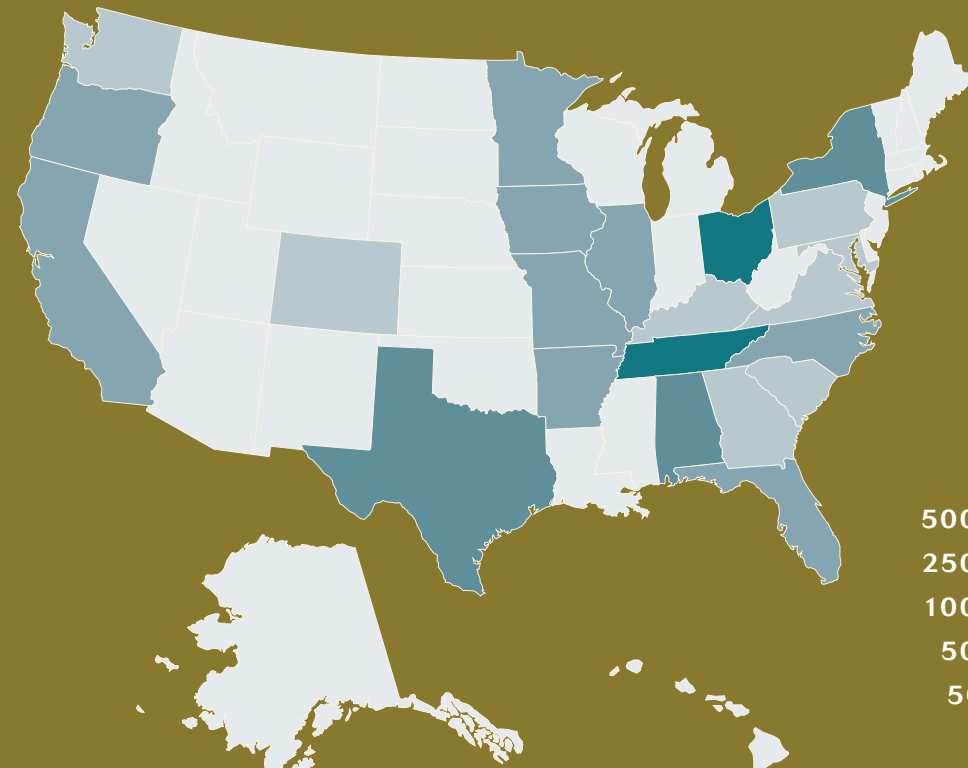
**5,886** NIH INSTITUTE/CENTER GRANTS  
(INCLUDING 923 NHLBI GRANTS)  
SUPPORTED BY CTSAS



**5,375** PUBLICATIONS  
AUTHORED BY CTSAs  
RESEARCHERS



\* All data based on 2010 reporting



## Volunteers ready for heart, lung and blood studies, such as:

- ARTEMIS-IPF: A Phase 3, randomized, double-blind, placebo-controlled, multi-center, parallel-group, event-driven study to evaluate the efficacy and safety of Ambrisentan in subjects with Early Idiopathic Pulmonary Fibrosis (IPF)
- A 12-week, international, multicenter, double-blind, randomized, placebo-controlled comparison of the efficacy and safety of oral UT-15C sustained release tablets in subjects with Pulmonary Arterial Hypertension
- Randomized, double-blind, placebo-controlled, multi-centre, multi-national study to evaluate the efficacy and safety of oral BAY 63-2521 (1 mg, 1.5 mg, 2 mg, or 2.5 mg tid) in patients with symptomatic Pulmonary Arterial Hypertension (PAH)- PATENT-1 Study
- A phase 2, randomized, double-blind, placebo-controlled, multicenter, dose-ranging study of Cicletanine in subjects with Pulmonary Arterial Hypertension.

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 NHLBI

The CTSA-supported REDCap tool is used by 296 active institutional partners including almost all CTSA. REDCap is designed exclusively 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 24,340 studies with over 34,940 end-users spanning numerous research focus areas including those of critical importance to NHLBI. REDCap includes studies such as:

- |  |   |  |
|--|---|--|
| <p>a. Evaluating clinic and community-based lifestyle interventions for obesity reduction in a low-income Latino neighborhood: Vivamos Activos Fair Oaks Program.</p> <p>Drieling RL, Ma J, Stafford RS. BMC Public Health. February 14, 2011.</p> <p><a href="http://ncbi.nlm.nih.gov/pubmed/21320331">ncbi.nlm.nih.gov/pubmed/21320331</a></p> | <p>b. Altered mitochondrial membrane potential, mass, and morphology in the mononuclear cells of humans with type 2 diabetes.</p> <p>Widlansky ME, Wang J, Shenouda SM, Hagen TM, Smith AR, Kizhakekuttu TJ, Kluge MA, Wehrauch D, Guterman DD, Vita JA. Transl Res. July, 2010; 156(1):15-25. Epub May 11, 2010.</p> <p><a href="http://ncbi.nlm.nih.gov/pubmed/20621033">ncbi.nlm.nih.gov/pubmed/20621033</a></p> | <p>c. Noninvasive assessment of asthma severity using pulse oximeter plethysmograph estimate of pulsus paradoxus physiology.</p> <p>Arnold DH, Jenkins CA, Hartert TV. BMC Pulm Med. March 29, 2010.</p> <p><a href="http://ncbi.nlm.nih.gov/pubmed/20350320">ncbi.nlm.nih.gov/pubmed/20350320</a></p> |
|--|---|--|

## ABOUT CTSA

The CTSA program creates academic homes for clinical and translational science at 60 health research institutions nationwide. The CTSA 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's site is required to provide the following resources:

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

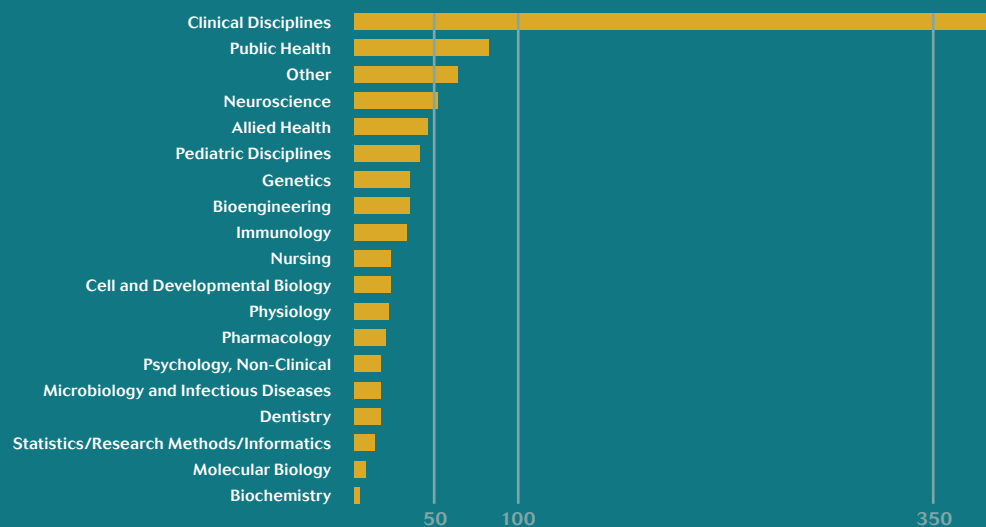
## CTSA liaisons to NHLBI

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### Consortium activities focus on:

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

# 930 CTSA Scholars and Trainees in 2010



## Drugs, biologics, and devices

Food and Drug Administration

### OUTCOMES REPORTED % NHLBI ACTIVITY

764	Drug license applications	10.6%
80	Patent applications	15%
57	Invention disclosures	28.1%



**Meet Shirley**  
VOLUNTEER

The Women's Health Initiative Clinical Trial and Observational Study focused on many of the inequities in women's health research. 115,400 volunteers like Shirley continue to provide practical information to women and their physicians about hormone therapy, dietary patterns, calcium/vitamin D

supplementation, and their effects on the prevention of heart disease, cancer and osteoporotic fractures.



**Meet Bob**

**BOB BLOCK, M.D. MPH**  
KL2 SCHOLAR AT ROCHESTER

He was interviewed by Amanda Gardner, HealthDay reporter, regarding the Efficacy and Safety of Prescription Omega-3-Acid Ethyl Esters (P-OM3) for the Prevention of Recurrent Symptomatic Atrial Fibrillation (AF) Trial (JAMA. 2010;304(21):doi:10.1001/jama.2010.1735). His work then

appeared on local tv stations across the country. This is one of hundreds of media stories generated by CTSA supported science. HealthDay is published on more than 5,000 websites including U.S. Department of Health and Human Services, MSN Health, Medline Plus and Bloomberg News.

# Visibility

examples of high impact

CTSA SUPPORT	PROJECT TITLE	INSTITUTION/ REFERENCE
Facilitating an industry funded drug trial	Effect of VX-770 in Persons with Cystic Fibrosis and the G551D-CFTR Mutation	<b>UC Denver/</b> N Engl J Med. 2010 Nov 18 PMID: 21083385
Supporting a junior trainee	Projected effect of dietary salt reductions on future cardiovascular disease	<b>UCSF/</b> N Engl J Med. 2010 Feb 18 Epub 2010 Jan 20 PMID: 20089957
Supporting a senior scientist	Circulating endothelial microparticles as a measure of early lung destruction in cigarette smokers	<b>Weill Cornell Medical College</b> Am J Respir Crit Care Med. 2011 Jul 15;184(2):224-32. Epub 2011 Mar 11
Generating preliminary data	Constrictive bronchiolitis in soldiers returning from Iraq and Afghanistan	<b>Meharry Medical College/</b> N Engl J Med. 2011 Jul 21 PMID: 21774710

## CTSA-Funded pathway

### 1,898 PILOT STUDIES

NHLBI related work: 192  
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.

