

Center for Clinical and Translational Sciences (CCTS)

Collaboration, Support, Training, and More!

Satya Sree N. Kolar MS, MD, PhD
Director, Center for Clinical and Translational Sciences



Center for Clinical and Translational Sciences

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON
THE UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER
THE UNIVERSITY OF TEXAS AT TYLER
THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY
RICE UNIVERSITY
MEMORIAL HERMANN HOSPITAL SYSTEM

OVERVIEW

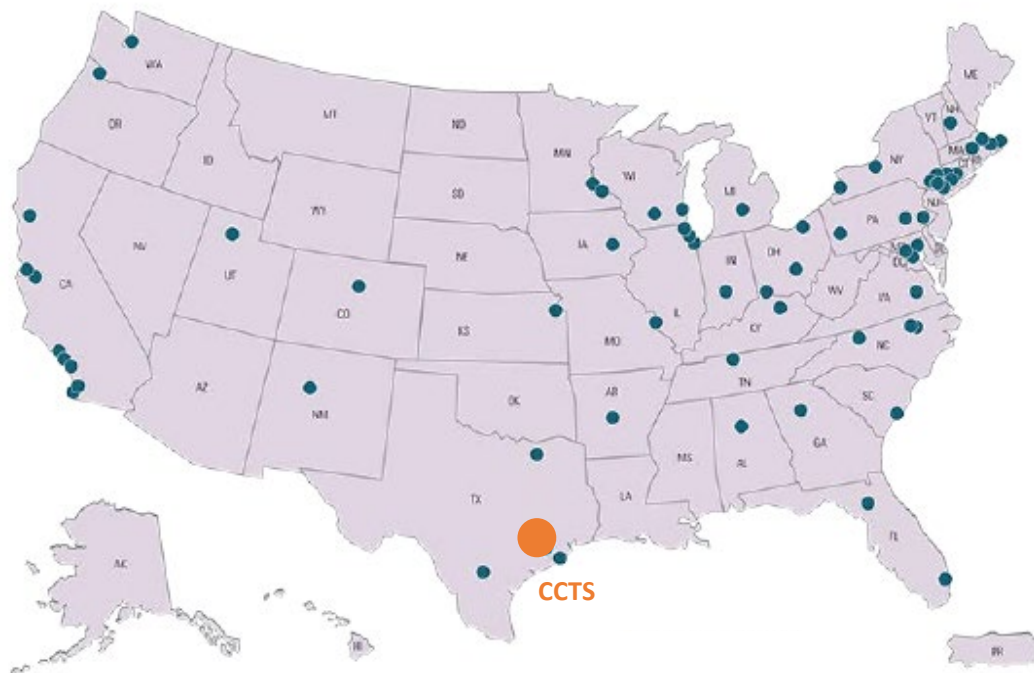
- **CCTS - who we are**
 - Center funded by NCATS
- **CCTS - what we do**
 - Support translational research and Advance translational science
- **CCTS - what we offer**
 - Services and Resources



<https://www.troopmessenger.com>

CTSA HUBS

- **CCTS** - Center for Clinical and Translational Sciences
- **CTSA** - Clinical and Translational Science Award
- **NIH-NCATS** - National Center for Advancing Translational Sciences



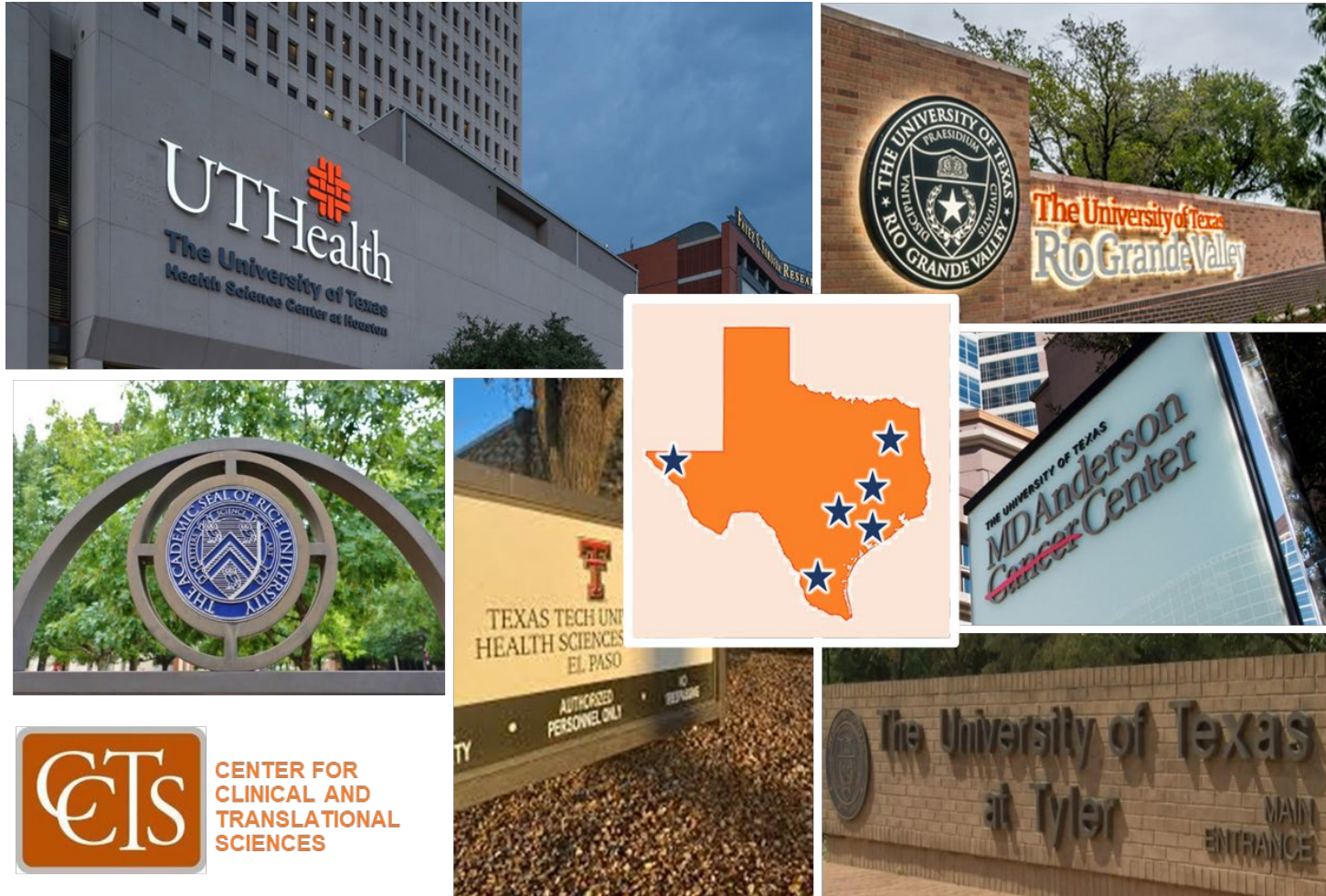
CCTS TEAM



<https://www.uth.edu/ccts/>

- The CCTS is funded by **NCATS CTSA grants since 2006**
- Goal – **to facilitate clinical and translational science at UTHealth Houston & our partner institutions**

CCTS PARTNERS



- **UTHealth Houston-Hub's Primary Institution**
- **5 Partner institutions: UT-MDACC, Rice, UT-Tyler, UT-RGV, TT-El Paso**
- **~23,000sq.miles**
- **~16M people**

VISION & MISSION



VISION

Rapidly turn **scientific discoveries into solutions** to advance health for **All**



MISSION

- **Support** translational science
- **Facilitate** translational research
- **Build** the next generation of translational workforce

LEADERSHIP



David McPherson, MD
UTHealth-Houston



Daniel Karp, MD
UT-MDACC



Jiajie Zhang, PhD
UTHealth-Houston



Deborah Clegg, PhD
TTU-EI Paso



Jane Grande-Allen, PhD
Rice University



Everardo Cobos, MD
UT-RGV



Jarett Berry, MD
UTHSC-Tyler



Satya Kolar, MS, MD, PhD
UTHealth-Houston

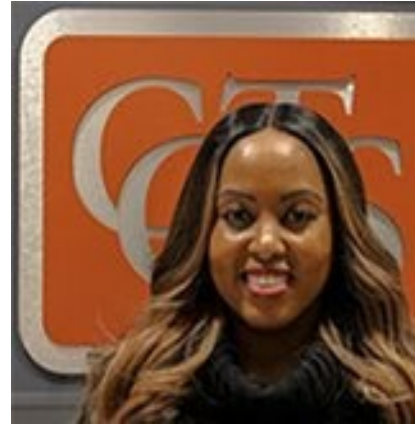
CORE / COMPONENT LEADERS



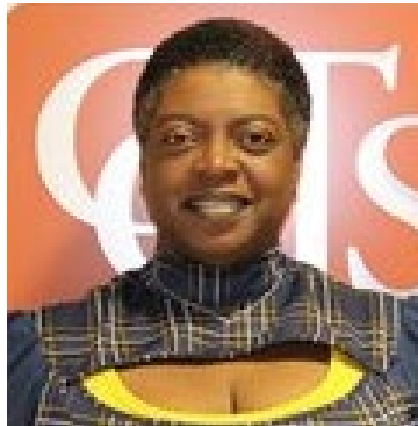
ADMINISTRATION



Scott Harrison, MBA
Financial Director



Treasure Wilson
Sr. Finance Coordinator



Tricia Hill-Thomas
Sr. Admin Coordinator



Toya Butler
Admin Coordinator

GRANTS & CONTRACTS



Kwai Cheng, PhD
Program Manager



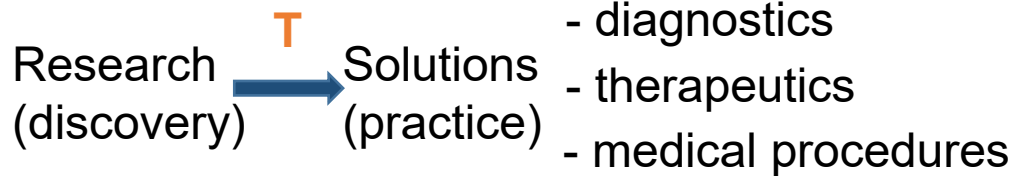
Carolina Lema, PhD
Program Manager



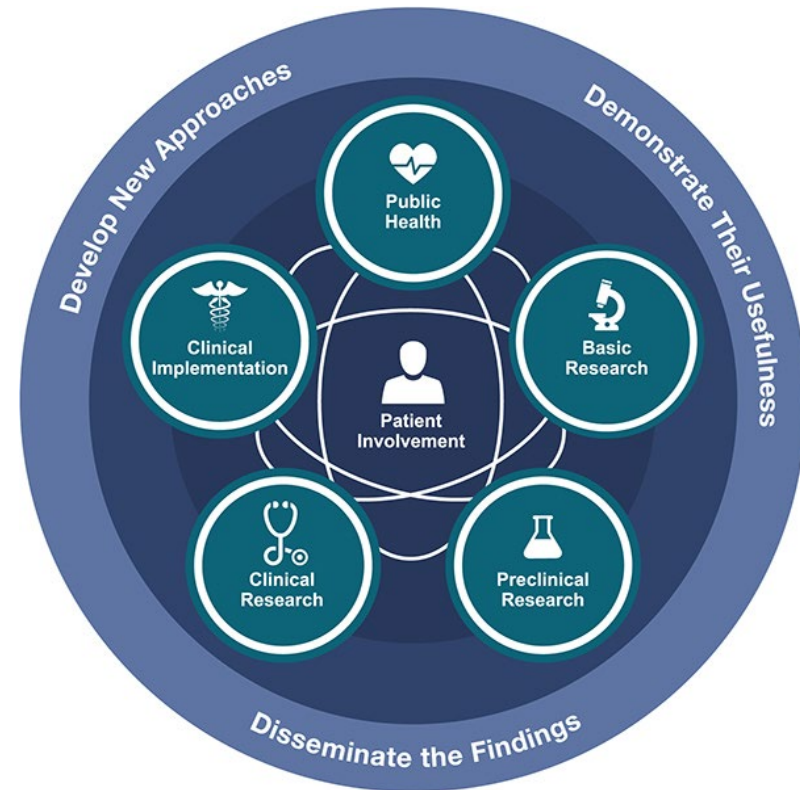
Delandria Anderson, M.H.A.
Sr. G&C Specialist

WHAT WE DO

Translation: “The process of turning *observations* in the laboratory, clinic or the community into *interventions that improve the health* of people” (NCATS)



- A novel drug can take 10-15 years and more than \$2 billion to develop (ncats.nih.gov)



CTSA-CCTS GOALS

- Support researchers, practitioners, and community members to bring **scientific discoveries to the doctor's office and to the community** (Bench – Bedside - Population)
- Deliver **community health concerns to the lab** through the clinic
- Build the **next generation** of translational researchers



<https://mrctcenter.org>

CCTS SERVICES & ACTIVITIES

➤ 16 components and 6 institutions to help you advance your medical research goals!

➤ Services range from funding opportunities search to assisting with research design and culminating with grant writing/editing assistance

➤ Services offered by CCTS components

Community		Clinical Trials	
Community Engagement	Integrating Special Populations	Clinical Research Units	Scientific Partners Advancing Research Kickoff
Team Science	Non-Medical Opioid Use	Clinical Trials Resource Center	Trial Innovation Network
Grant Assistance	Pilot Projects	KL2 Career development	TL1 Training for Pre- and Post-Doc students
Biomedical Informatics	BERD	Core Labs (TRCC)	Translational Workforce Development
Grant assistance		Education & Training	

GRANTS ASSISTANCE

- **Proposal development:** advice and assistance from **experienced CCTS faculty and staff**
- **Funding opportunity search**
- **Review and edit** grant applications
- **SPARK** program
- **Tip:** Request for **letters of support** from CCTS



SPARK (Scientific Partners Advancing Research Kickoff)

- Assistance and mentoring from a panel of CCTS experts: **study design, study approval, funding opportunity search, and study conduct**
- Tips:
 - Reach out **early** in proposal development stage
 - Take advantage of these **informal discussions** about your research plans



<https://hriainstitute.org>

- Biostatistics, Epidemiology & Research Design Component (**BERD**)
- Support and advice: **study design, data collection, quality assurance and analysis**
- For assistance and **free initial consultation**, fill out form <https://www.uth.edu/ccts/services/berd>
- Tip: Get help **well before** you submit your proposal



<https://www.vennlifesciences.com>

COMMUNITY ENGAGEMENT

- Assist in the **design and conduct** of studies in the community
- Advice and training in **research dissemination**
- **Programs and Community Advisory Boards** in Houston, Brownsville, and Tyler
- Tip: Talk to Community Engagement group about working with **Houston, RGV, El Paso and East Texas** community organizations



DISSEMINATION & IMPLEMENTATION

- Dissemination: **Strategies to spread** the knowledge
- Implementation: Methods to facilitate **adoption and integration** of interventions
- Understand **barriers and facilitators**
- **UTHealth Institute for Implementation Science**
<https://www.uth.edu/implementation-science>

Solution/Intervention  ^{D&I} People's health impact



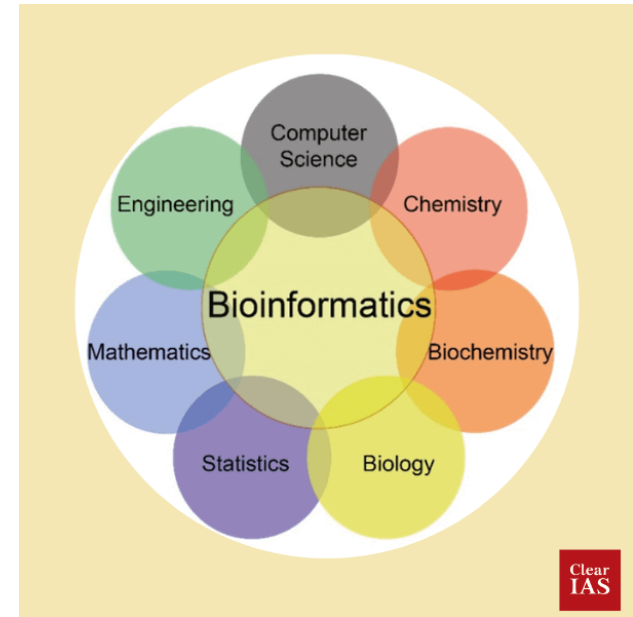
<https://ictr.wisc.edu>



Pic credit: Google images

BIOINFORMATICS

- Collection, organization, and transfer of data and information
- Creation of **databases**
- Assessment of **feasibility** of study
- Tip: **Organize your data** as you collect it, in a format that can be easily analyzed



<https://www.clearias.com>

CLINICAL RESEARCH UNITS (CRUs)

- Memorial Hermann Hospital, MDACC, SPH-Brownsville, School of Dentistry, LBJ Hospital
- Dedicated specialized facilities, experienced personnel, and advice for the conduct of clinical studies
- Tip: Can't hire a full-time research coordinator? You may be able to hire a part-time coordinator from the CRUs



Total Protocols
173

Active Protocols
157

Protocols Mix
71% Industry
29% Non-Industry

Center for Hispanic Health Research and Cameron County Hispanic Cohort (CCHC)

- Joseph McCormick, MD, & Susan Fisher-Hoch, MD - CCTS collaborators in Brownsville
- Underserved, understudied population, **97% Hispanic**
- A population-based cohort (>5000) with **demographic, biochemical, molecular, medical, and behavioral data** for >10yr
- Available for **prospective & retrospective** studies



<https://sph.uth.edu>

Center for Hispanic Health Research and Cameron County Hispanic Cohort (CCHC)

Ongoing studies include:

- Diabetes
- Obesity
- Tuberculosis
- Cardiovascular disease
- Non-alcoholic fatty liver disease
- Bone metabolism & body fat distribution
- Cervical cancer prevention
- Liver cancer
- Microbiome
- Mental health



<https://www.uth.edu/ccts/services/cru>

INTEGRATING SPECIAL POPULATIONS

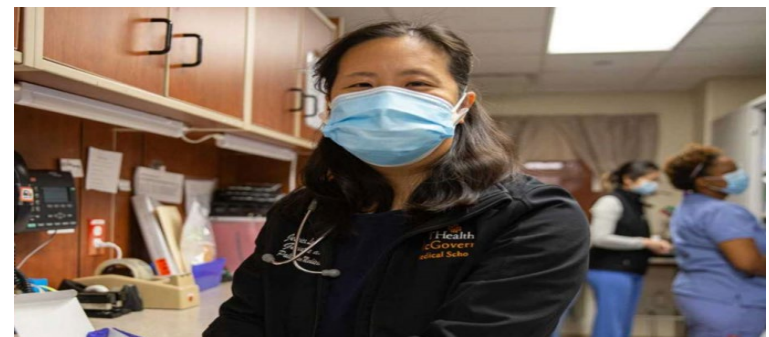
- To assure that our research includes the **entire range of population**
- Includes **pediatric, geriatric, and LGBTQ+ populations and Hispanics and other minorities**



<https://www.uth.edu/ccts/services/integrating-special-populations>



<https://theconversation.com>



<https://www.uth.edu/ccts/services/integrating-special-populations>

TRIAL INNOVATION NETWORK (TIN)

- TIN: provides **assistance with multisite NIH-funded** clinical trials
- Leverage the expertise, skills and knowledge of NCATS & the CTSA participants to **provide consultation and resources** for multi-site clinical trials
- The TIN helps:
 - Investigators **start up their own** NIH-funded multisite trials and
 - Find **potential new sites** for ongoing national trials
- Now - **Hub Liaison Team**



<https://instituteforeffectiveness.org>



Pic credit: Google images

CLINICAL TRIALS RESOURCE CENTER

- Study, understand and innovate the process of conducting clinical trials
- Help investigators start up or join multisite nation-wide clinical trials
- Trial design and conduct – training/ classes for investigators, research nurses, and study coordinators
- Assistance with IND and IDE applications
- <https://www.uth.edu/ctrc/>



<https://www.osmosis.org>



<https://www.osmosis.org>

WORKFORCE DEVELOPMENT

- Clinical Research Professional Workforce Training Program
- Prepare trainees for clinical research professional career – Clinical Research Coordinators, Research nurses and Data Coordinators
- Three*8 week online program: Drug development, Human subjects protection, GCP, IRB submissions, Essential documents, Informed consent, Study management, Study visits, Protocol compliance, Investigational product, Safety reporting & Study oversight
- <https://www.uth.edu/ctrc/training/crp-wtp>



Pic credit: CRPWTP Flyer



<https://www.uab.edu/ccs>

PILOT PROJECTS

- New, unfunded, **multi-institutional**, collaborative clinical research to help generate **preliminary data** for extramurally funded projects
- **Junior faculty** at CCTS partner institutions: UTHealth-Houston, UT-Tyler, UT-RGV, MDACC, TTU-EP or Rice University
- **1-year ~\$30,000** grant
- IRB approval is required for application



PILOT PROJECTS

- This year: 14 applicants, 5 awardees
- Tip: Watch for email RFAs



Akane Sano, PhD
Rice
University & MDACC



Abigail Zamorano, MD
UTHealth
Houston & MDACC



Nitha Mathew Joseph, PhD
UTHealth
Houston & MDACC



Andrea Betts, PhD
UTHealth Houston
& MDACC



Pooja Shivshankar, PhD
UTHealth Houston &
UT-Tyler

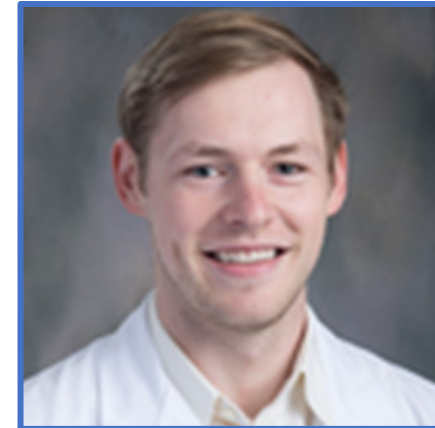
CAREER DEVELOPMENT & TRAINING

- TL1 (now T32 pre and T32 postdocs): Up to 2 years of full support for graduate students and postdocs interested in CTR
- KL2 (now K12): funding up to 75% of total salary & additional support for research and education for up to 3 years. Scholars have an M.D., Ph.D. or equivalent doctoral degree
- Goal is to increase the number of well-trained future translational investigators
- Tip: Watch for RFAs

TL1

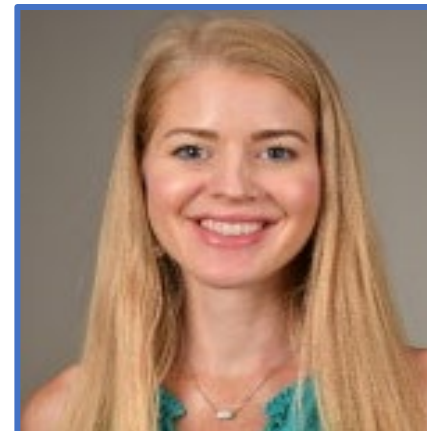


Pahul Hanjra
MDACC



Benjamin Whitfield
UTHealth Houston

KL2



Lindsay Holzapfel, MD
UTHealth Houston



Julie Holihan, MD
UTHealth Houston

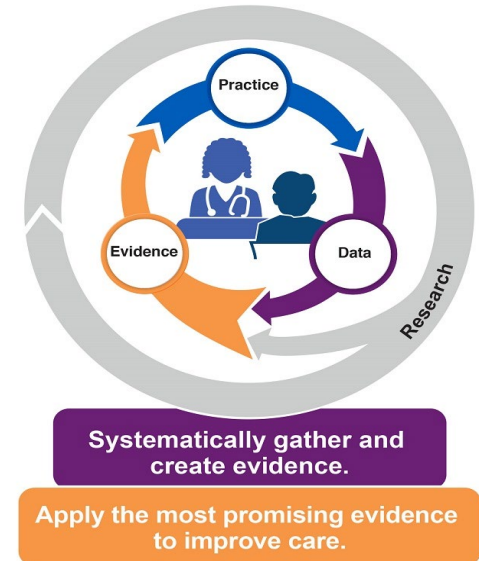
OTHER CCTS COMPONENTS

- Team Science
- Learning Healthcare System
- DEI&A
- Non-Medical Opioid Use



Pics credit: Google images

Learning Health Systems



TEXAS REGIONAL CTSA CONSORTIUM

- The four Texas CTSA hubs
 - UTHealth, Houston
 - UT-Southwestern, Dallas
 - UTHSC, San Antonio
 - UTMB, Galveston
- Joint Research & Education programs
- Core Labs & Collaborative Training
- Tip: Reach out for potential collaborations



2023 TRCC Annual Meeting-October 4, 2023 Houston, Texas



2023 TRCC ANNUAL MEETING



<https://ccos-cc.ctsa.io/news>

<https://www.uth.edu/ccts/ccts-news/2023-annual-texas-regional-ctsa-consortium-meeting.htm>

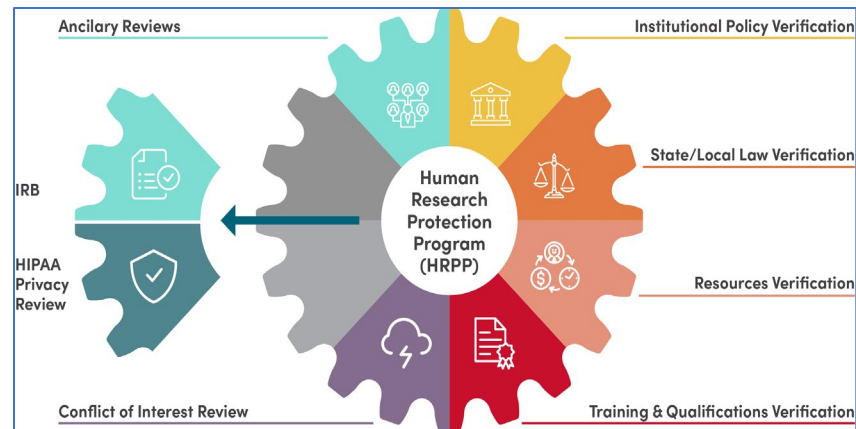
<https://www.utsystem.edu/sites/trcc>

IRB RECIPROCALITY AGREEMENT

- For multisite studies, we have several **IRB reciprocity agreements/ programs**
- Reciprocity agreement allows **one institution to serve as the IRB of record** for a study and other institutions to accept approval from that institution
- **Tip:** Consult us for the best IRB reciprocity plan for your study



<https://hrpo.wustl.edu>



<https://ctsi.utah.edu>

UT SYSTEM IRB RECIPROCALITY AGREEMENT

- UTHealth-Baylor IRB Agreement
- Gulf Coast Consortium Agreement
 - UT Health
 - Baylor College of Medicine
 - Rice University
 - University of Houston
 - The University of Texas Medical Branch at Galveston
 - The University of Texas M. D. Anderson Cancer Center
- IRBShare and SMART IRB
 - Among CTSA institutions
- Commercial IRBs
- UT System IRB Agreement



THE UNIVERSITY OF TEXAS SYSTEM
Nine Universities. Six Health Institutions. Unlimited Possibilities.

SUMMARY

To advance TS and TR we:

- Facilitate collaboration
 - Provide access to consultation resources, training
 - POC for programs, & opportunities at NCATS
-
- Tips: Use CCTS services and programs to **leverage your grant applications**. Contact us to discuss what we can do for you!



CONTACT US

- Check out our web site <https://www.uth.edu/ccts/>
- <https://www.uth.edu/ccts/ccts-services> for the services and expertise you need
- Find what you want? **Call that CCTS component** directly
- Can't find what you need or do you want to discuss options? Call our main number (**713-500-7900**), email us at CCTS@uth.tmc.edu, or call or email **Satya Kolar**



Pic credit: Google images



Thank You!

Any Questions?

UT SYSTEM IRB RECIPROCALITY AGREEMENT

The University of Texas Health Science Center at San Antonio

The University of Texas Health Science Center at Houston

The University of Texas Health Science Center at Tyler

The University of Texas M. D. Anderson Cancer Center

The University of Texas Medical Branch at Galveston

The University of Texas Southwestern Medical Center

The University of Texas at Austin

The University of Texas at Arlington

The University of Texas at Brownsville

The University of Texas at Dallas

The University of Texas at El Paso

The University of Texas at Pan American

The University of Texas of the Permian Basin

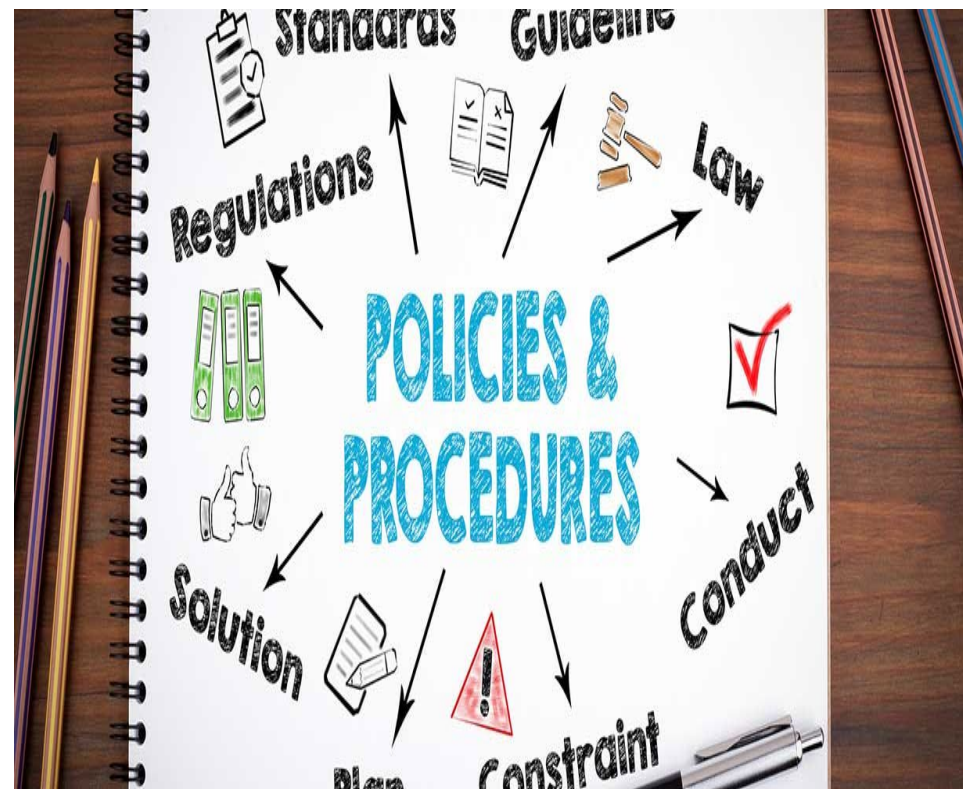
The University of Texas at San Antonio

The University of Texas at Tyler



CLINICAL TRIALS RESOURCE CENTER

- Study, understand and innovate the process of conducting **clinical trials**
- Address critical roadblocks/barriers in clinical trials to execute them **better, faster and more cost-efficiently**
- Help investigators start up their own trials or assist them to join multisite **nation-wide** clinical trials



<https://www.tasb.org/members/enhance-district/school-board-policy-and-regulation.aspx>

CCTS STRUCTURE & FUNCTIONS

➤ 16 components and 6 institutions to help you advance your medical research goals!

➤ Services range from funding opportunities to research design and grant writing assistance

➤ Services offered by CCTS components

<p>TL1</p> <p>Training for interdisciplinary PhD students across UT Health schools</p>	<p>KL2</p> <p>Career development and training for instructors and assistant professors in clinical and translational research</p>	<p>Clinical Research Units</p> <p>Dedicated spaces for conducting clinical trials</p>	<p>BERD</p> <p>Biostatistics, Epidemiology, and Research Design support</p>
<p>Community Engagement</p> <p>Involving community groups in biomedical research and communication</p>	<p>Biomedical Informatics</p> <p>Database design, data organization and transfer for researchers</p>	<p>Integrating Special Populations</p> <p>Recruitment and inclusion in research of underrepresented groups</p>	<p>Team Science</p> <p>Training and coaching on managing multi-disciplinary teams</p>
<p>Core Labs</p> <p>Atomic force microscopy and pre-clinical CT imaging</p>	<p>Liaisons to the Trial Innovation Network</p> <p>Advice on multisite trial from a national CTSA program</p>	<p>Non-Medical Opioid Use (NMOU)</p> <p>Research and community programs to understand non-medical opioid use.</p>	<p>Translational Workforce Development</p> <p>Education in translational sciences for clinical researchers</p>
<p>Grant Assistance</p> <p>Aid in finding funding and polishing grant applications.</p>	<p>Clinical Trials Resource Center</p> <p>Assistance with regulatory requirements and clinical study design</p>	<p>Ethics and Advocacy</p> <p>Training on ethical aspects of human studies and patient advocacy.</p>	<p>Scientific Partners Advancing Research Kickoff (SPARK)</p> <p>Consultation on study design and conduct</p>