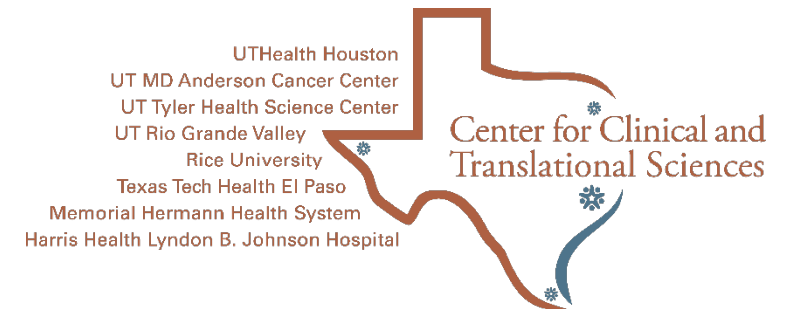
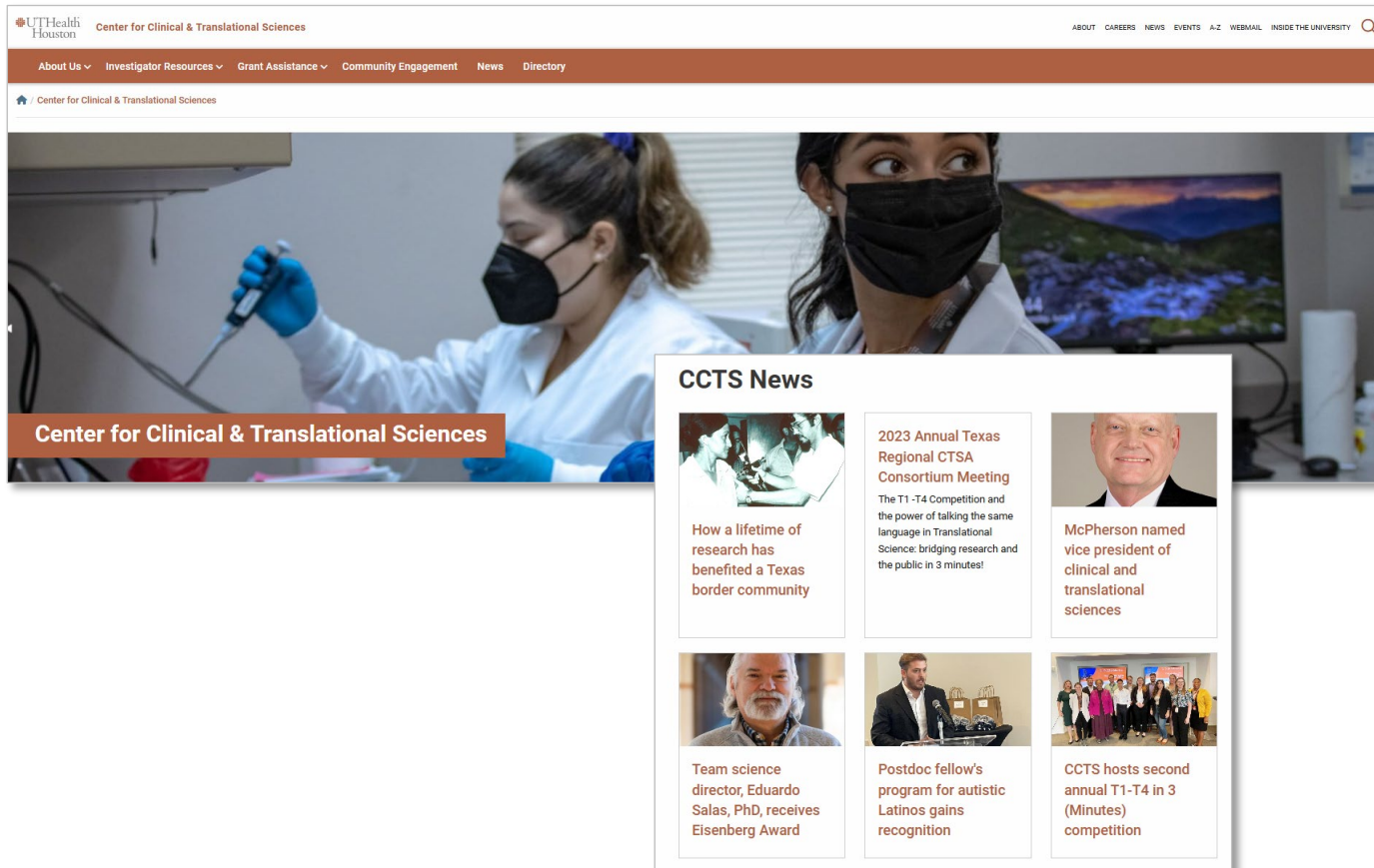
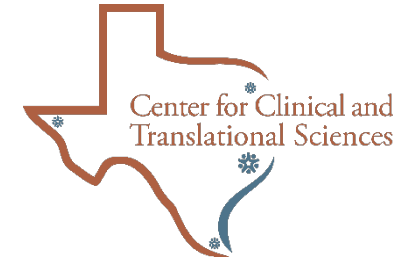


Transforming Health Together: The Center for Clinical and Translational Sciences at UTHealth Houston

Satya Kolar, MD, PhD
Director, Center for Clinical and
Translational Sciences

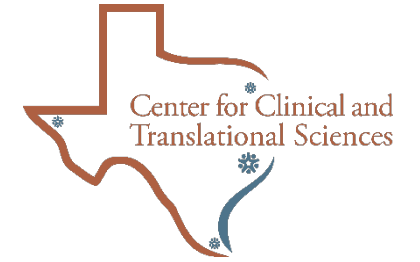


Overview



- Who we are
- What we do
- Components
- Services and resources
- Q&A
- Learn more / contact us

Who We Are



In 2006, three Texas Medical Center institutions were among the first in the nation to receive a Clinical and Translational Science Award (CTSA) from the National Institutes of Health to accelerate the translation of laboratory discoveries into patient treatments. The grant was used to establish the Center for Clinical and Translational Sciences (CCTS).

Today, the **Center for Clinical and Translational Sciences at UTHealth Houston** includes multiple partner organizations.



RICE UNIVERSITY

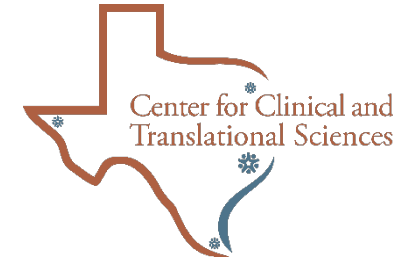


Texas Tech Health
EL PASO

MEMORIAL
HERMANN

HARRISHEALTH
SYSTEM

CTSA Hubs: 66 Nationwide



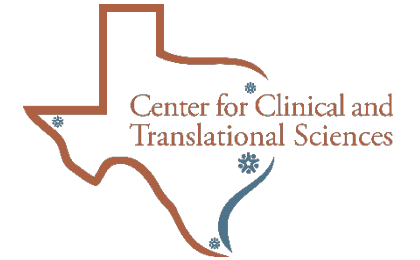
CCTS – Center for Clinical and Translational Sciences

CTSA – Clinical and Translational Science Award

NIH-NCATS – National Center for Advancing Translational Sciences

<https://ncats.nih.gov/files/CTSA-factsheet.pdf>

What We Do

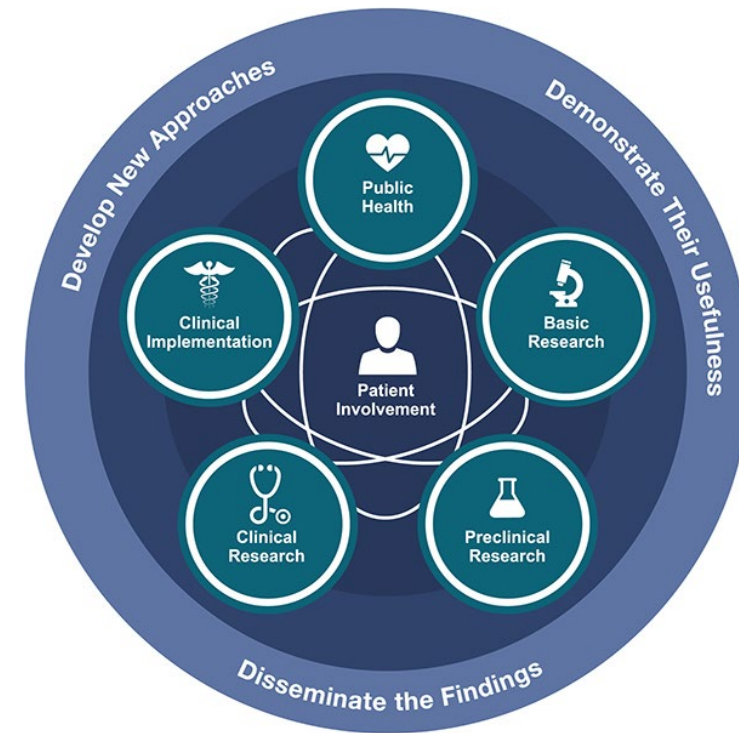


Mission: To support translational research and advance translational science

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

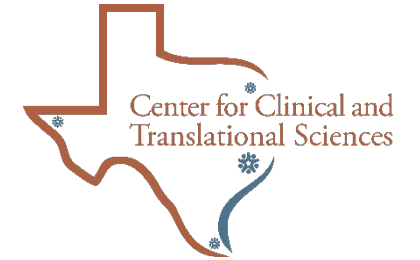
“A novel drug can take 10-15 years and more than \$2 billion to develop.”

ncats.nih.gov

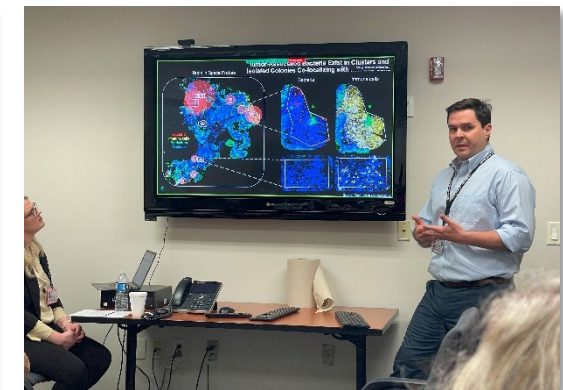


<https://ncats.nih.gov/about/about-translational-science>

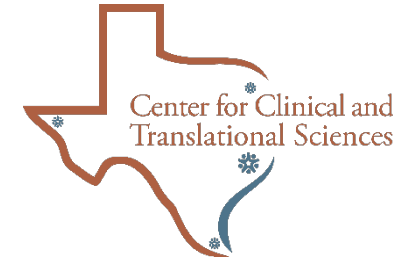
How We Do It



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



CCTS Components



Grant Assistance

Grant Writing	BERD
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Regulatory Knowledge & Support	Biomedical Informatics
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Clinical Trials

Clinical Research Units	Clinical Trials Resource Center
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Trial Innovation Network	Learning Healthcare
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Community

Community Engagement	Integrating Special Populations
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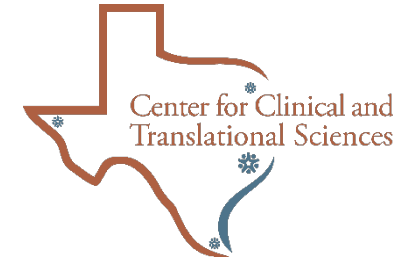
Team Science	Implementation & Dissemination
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Education & Training

Translational Workforce Development	Pilot Projects
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T32 Training for Pre- and Post-Doc students	K12 Career development
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Grant Assistance



- Advice from experienced CCTS faculty and staff for proposal development
- Help finding funding opportunities
- Review and edit grant applications

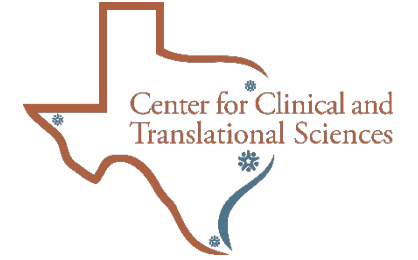
Tip: Request *letters of support* from CCTS



<https://www.liveabout.com/how-to-write-a-grant-proposal-2501980>

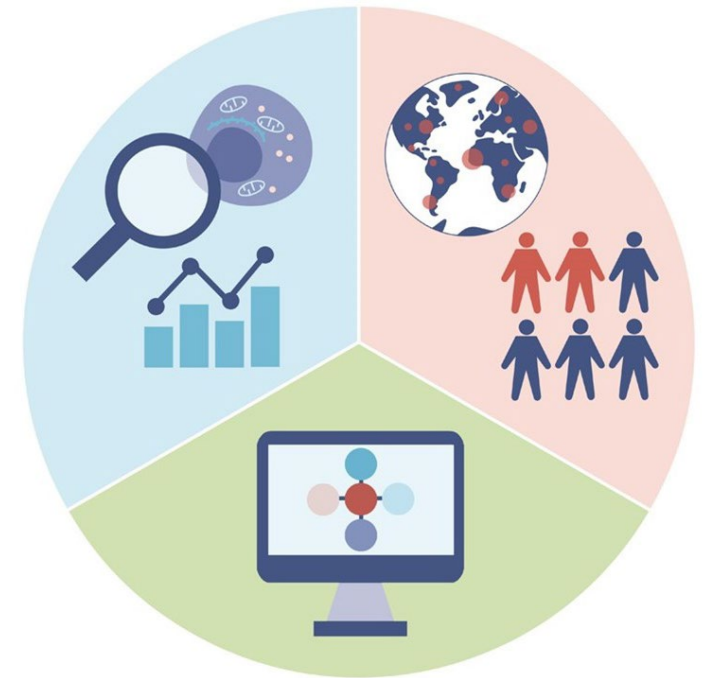
BERD

Biostatistics, Epidemiology & Research Design Component



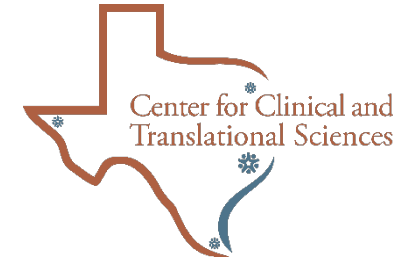
- Support and advice on study design, data management, data quality and statistical analysis
- For assistance and **free initial consultation**, fill out form <https://www.uth.edu/ccts/services/berd>

Tip: Get help well before you submit your proposal



<https://georgiactsa.org/research/berd/index.html>

NCATS Smart IRB Platform



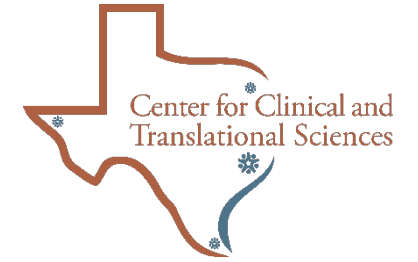
- Streamlined, multisite, accelerated resources for trials (SMART) IRB Platform
- A single institutional review board (IRB) platform for **multisite clinical studies**
- Single IRB reliance model: all sites participating in a multisite clinical study rely on the ethical review of a single IRB

<https://ncats.nih.gov/research/research-activities/ctsa/projects/smart-irb>

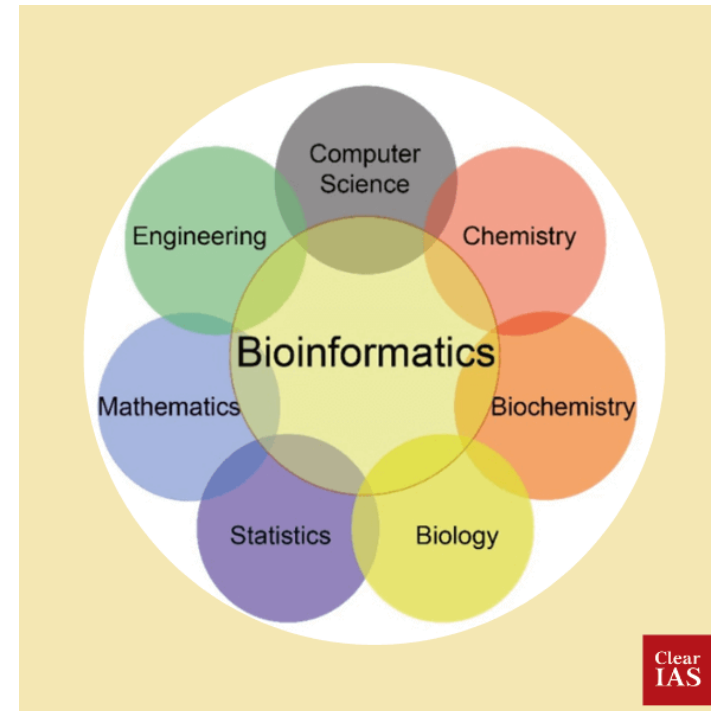


<https://www.bioprocessintl.com>

Biomedical Informatics

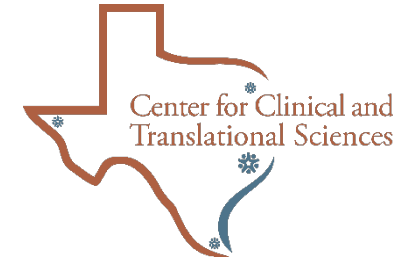


- **UTHealth Clinical Data Warehouse (CDW):** a single source for clinical data from various systems/institutions
- **Consultation:** Best practices in database design and implementation
- **REDCap Services:** Technical support and training



<https://www.clearias.com/bioinformatics/>

Clinical Research Units (CRUs)



- Memorial Hermann Hospital, UT MD Anderson Cancer Center, UTHealth School of Public Health-Brownsville, School of Dentistry, LBJ Hospital
- Dedicated specialized facilities, experienced personnel, and advice on conducting clinical studies
- Active protocols = 157 (71% industry, 29% non-industry)



Clinical Trials Resource Center



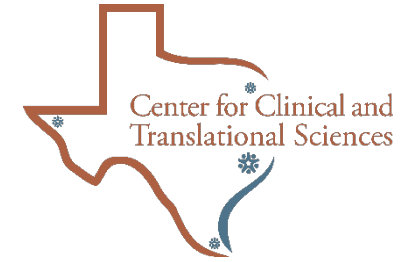
- Help investigators start up or join multisite nation-wide clinical trials
- Trial design and conduct – training for investigators, research nurses, and study coordinators
- Assistance with **IND** and **IDE** applications

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



<https://www.biopharmaservices.com>

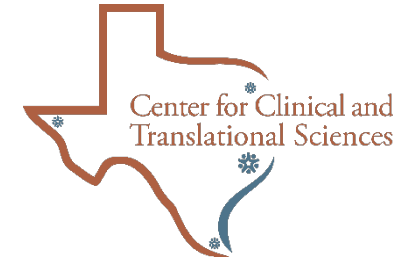
Trial Innovation Network



- CTSA program funded to **support multi-site and decentralized clinical research (trials)**
- Planning guidance, resources, and operational assistance (proposal development, statistical, regulatory, recruitment and retention)
- Helps investigators start up of NIH-funded multisite trials and/or find new sites for ongoing national trials



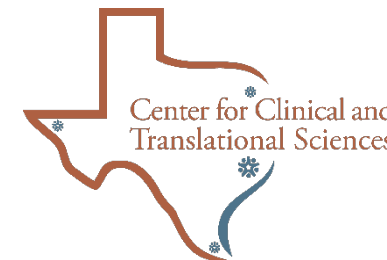
Learning Healthcare



<https://www.theglobeandmail.com/>

- Implement **research findings into clinical practice**
- Distinguish effective from ineffective or harmful therapies in real-world clinical settings
- Broad integration into CCTS K12 and Integrating Special Populations Component
- Consultation and training services to promote rigorous trials of new therapies and quality improvement studies

Community Engagement

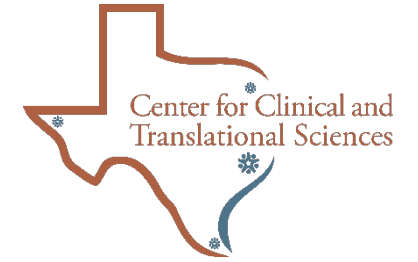


CCTS-CE-Solutions in Action Workshops

- Assist in the design and conduct of community studies
- Advice and training in research dissemination
- Programs and Community Advisory Boards in Houston, Brownsville, and Tyler

Tip: Talk to our CE Component about working with Houston, Rio Grande Valley, East Texas, and El Paso community groups

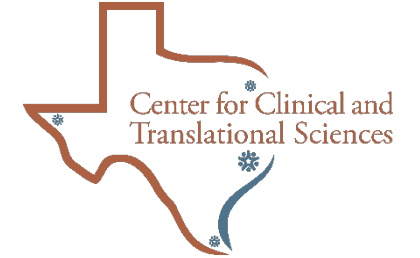
Integrating Special Populations



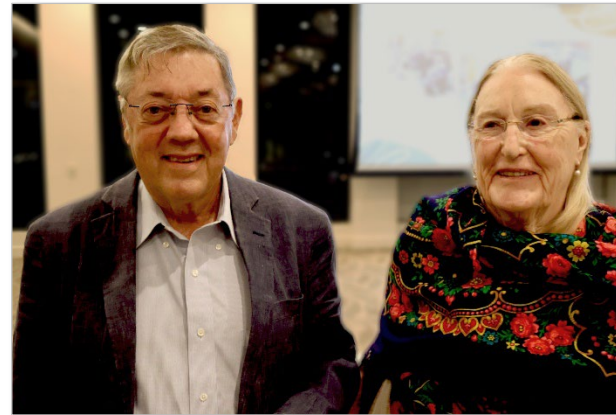
- **CARE:** Cultural awareness, respect and empathy
- Ensure that our research includes the **entire range of the population**
- Includes units on pediatric, geriatric, and LGBTQ+ populations, and Hispanics and other minorities with cancer



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



- Joseph McCormick, MD, and Susan Fisher-Hoch, MD - CCTS collaborators in Brownsville, TX
- Underserved, understudied, **97% Hispanic community**
- A population-based cohort (>5000) with demographic, biochemical, molecular, medical, and behavioral data for >15 years



McCormick and Fisher-Hoch

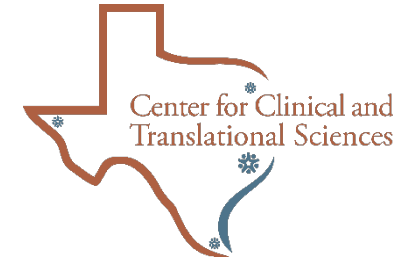


CCHC research meeting (November 2024)



Clinical research unit staff, Brownsville

Center for Hispanic Health Research and Cameron County Hispanic Cohort



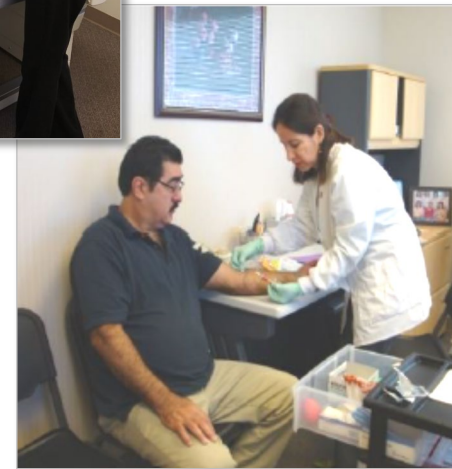
Ongoing studies:

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

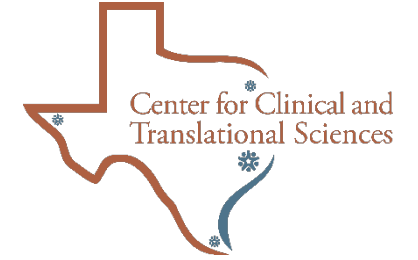


“All work is performed
by local staff. They
own the program.”

Dr. Fisher-Hoch

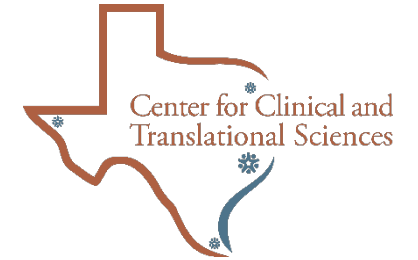


Team Science



- Develop **teamwork practices**
- Address potential barriers to successful collaboration
- Implement training programs
- Disseminate best practices
- Evaluate the learning progress of teams

Dissemination and Implementation



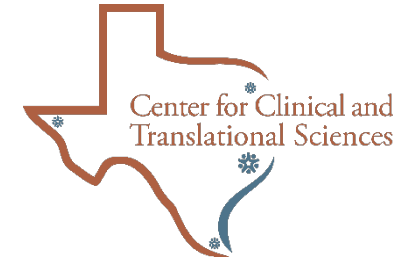
- Dissemination: Strategies to **spread** the knowledge
- Implementation: Methods to facilitate **adoption** and **integration** of interventions
- Understand barriers and facilitators
- UTHealth Institute for Implementation Science (consultation, training, collaboration)



<https://ictr.wisc.edu/research-resources/dissemination-implementation-launchpad/di-education-resources/>

www.uth.edu/implementation-science

Workforce Training



Clinical Research Professional Workforce Training Program (Fall 2024)

- Clinical research coordinators, research nurses and data coordinators
- 100% online, 28-week program
- Curriculum based on Joint Task Force for Clinical Trial Competency's recommendations
- Experiential components integrated into each course

www.uth.edu/ctrc/training/crp-wtp

UTHealth Houston
Center for Clinical and Translational Sciences

JOIN THE DYNAMIC FIELD OF CLINICAL RESEARCH

Be ready to launch your career in 28 weeks with our online program

Clinical Research Professional Workforce Training Program

August 19, 2024 - March 2, 2025
Deadline to register: July 31, 2024

Unlock your potential in the areas of clinical research and clinical study management as a:

- Clinical Research Coordinator
- Research Nurse
- Data Coordinator

Course content includes slide presentations, lectures, textbook and

SCAN QR WEBSITE

Unlock your potential in clinical research and clinical study management

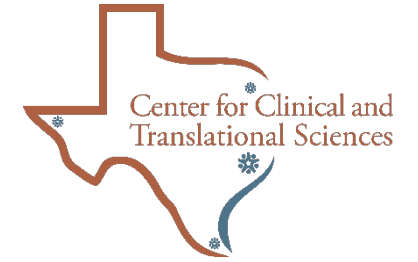
Clinical Research Professional Workforce Training Program
August 19, 2024 - March 2, 2025

Register by July 31, 2024
go.uth.edu/become-a-clinical-research-professional

(713) 500-3578
clinicaltrials@uth.tmc.edu

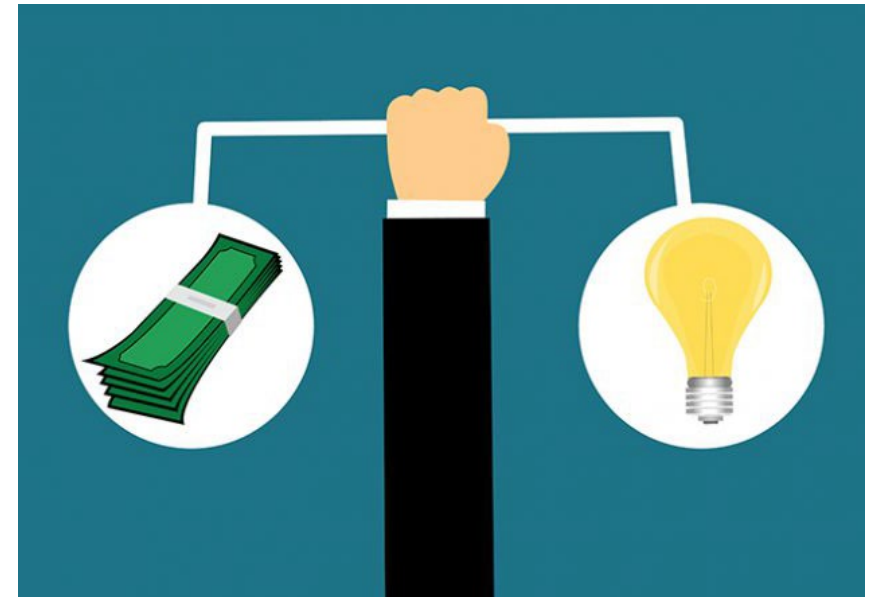
UTHealth Houston

Pilot Funding Program



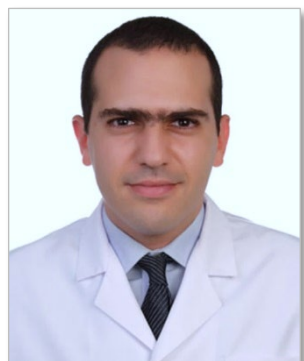
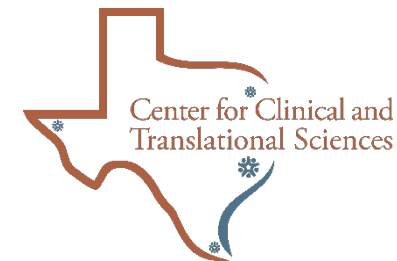
- New, unfunded, collaborative clinical research to help generate **preliminary data** for extramurally funded projects
- **Junior faculty** at CCTS partner institutions
- 1-year ~\$25,000 grant

Tip: Check current RFA (2025-2026 cycle).
Deadline for applications: 2/17/2025.



<https://www.researchprofessionalnews.com/rr-news-africa-pan-african-2020-7-science-funding-after-covid-19-will-be-a-balancing-act/>

2024 Pilot Funding Awardees



Muhammad O. Awiwi, MD

Assistant Professor, Dept. of Diagnostic Imaging, McGovern Medical School, UTHealth Houston

Opportunistic screening for osteoporosis using low-dose chest CT obtained for lung cancer screening

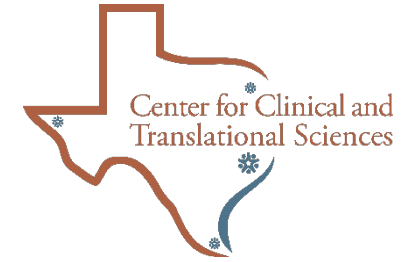


Fadi Musfee, MD

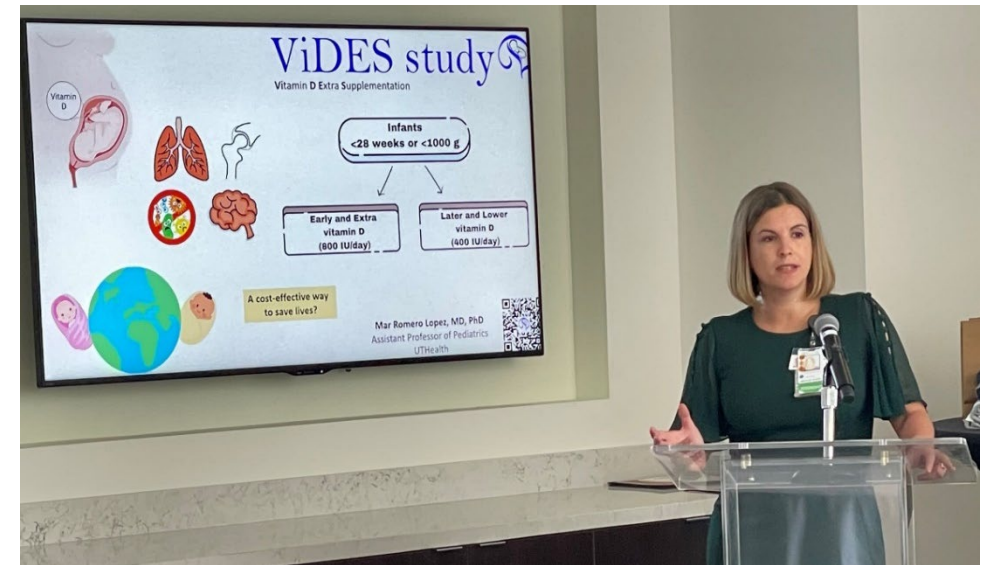
Assistant Professor, Institute for Stroke and Cerebrovascular Diseases, UTHealth Houston

A new at-home telerehabilitation care service delivery model for stroke survivors in the Rio Grande Valley (Clinical Trial)

Career Development Program (K12)

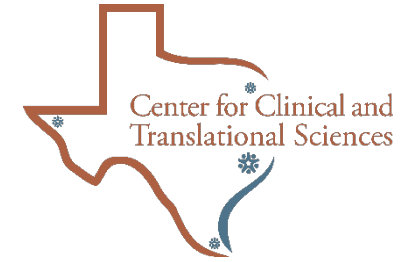


- Career development awards to outstanding early-career faculty members holding an MD, PhD, or equivalent doctoral degree
- Experiential training and supervision provided by established senior faculty researchers (mentors)
- Funding of up to **75% of total salary and additional support** for research and education for 1-3 years



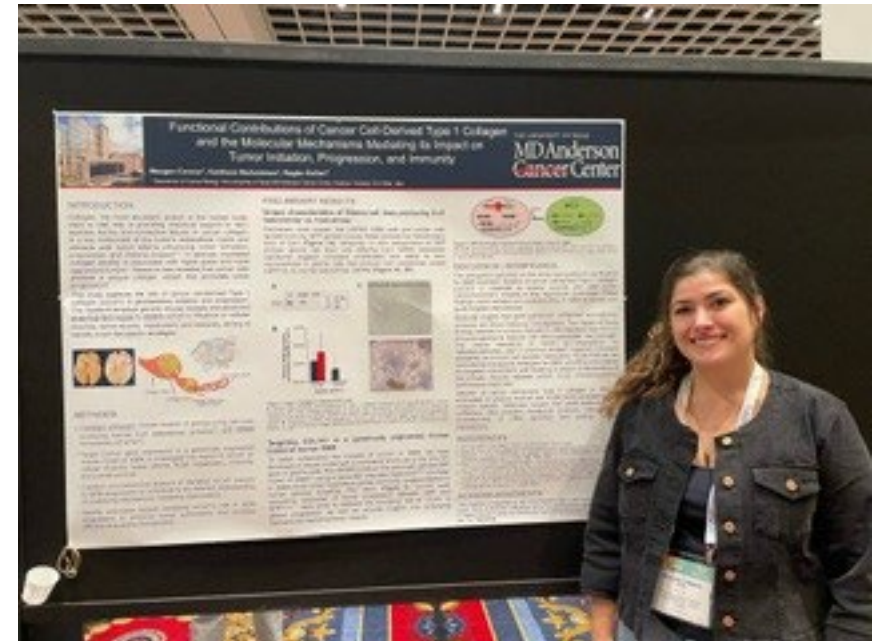
T1 to T4 in 3 (Minutes) competition, Houston, TX (2024)

Pre- and Post-Doc Training Program (T32)



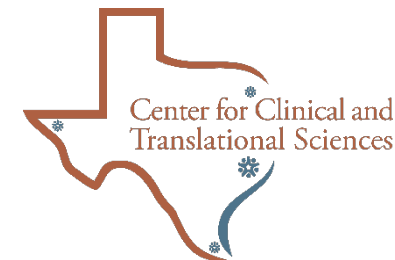
- Up to 2 years of **full support** for graduate students and postdocs interested in clinical translational research
- T32 Goals:
 - Train the next generation of translational workforce
 - Widen participation of underserved populations

Tip: Watch for RFA



Association for Clinical and Translational Science (ACTS) meeting, Las Vegas, NV (2024)

T1-T4 in 3 (Minutes) Competition

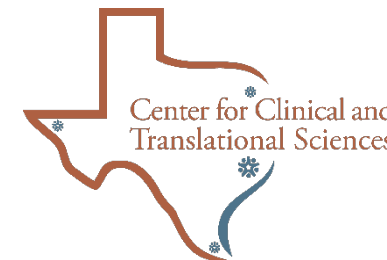


- Annual event for T32 trainees / K12 scholars
- Opportunity for young investigators to reach the public by “translating” research ideas and achievements
- Valuable feedback from community members
- Winner represents CCTS at the regional competition (TRCC meeting)



1st-place winner, Jacob Mattia, presents “Listening to the Genetic Symphony of Neurodevelopment in Down Syndrome,” at the TRCC T1 to T4 in 3 (Minutes) Competition, Dallas, TX (2024)

Texas Regional CTSA Consortium (TRCC)



- Five Texas CTSA hubs:
 - UTHealth Houston Center for Clinical & Translational Sciences
 - UT Southwestern Medical Center CTSA Program (Dallas)
 - UT Health San Antonio Institute for Integration of Medicine & Science
 - The University of Texas Medical Branch Institute for Translational Sciences (Galveston)
 - Baylor College of Medicine and University of Houston
- Joint research and education programs
- Core labs and collaborative training

Tip: Reach out for potential collaborations



Q&A





Thank you



Learn More



www.uth.edu/ccts/

Contact Us



General Inquiries
CCTS@uth.tmc.edu



CCTS Directory
www.uth.edu/ccts/directory



Satya Kolar
Satya.Sree.N.Kolar@uth.tmc.edu