



FRONTIERS

CLINICAL & TRANSLATIONAL SCIENCE INSTITUTE





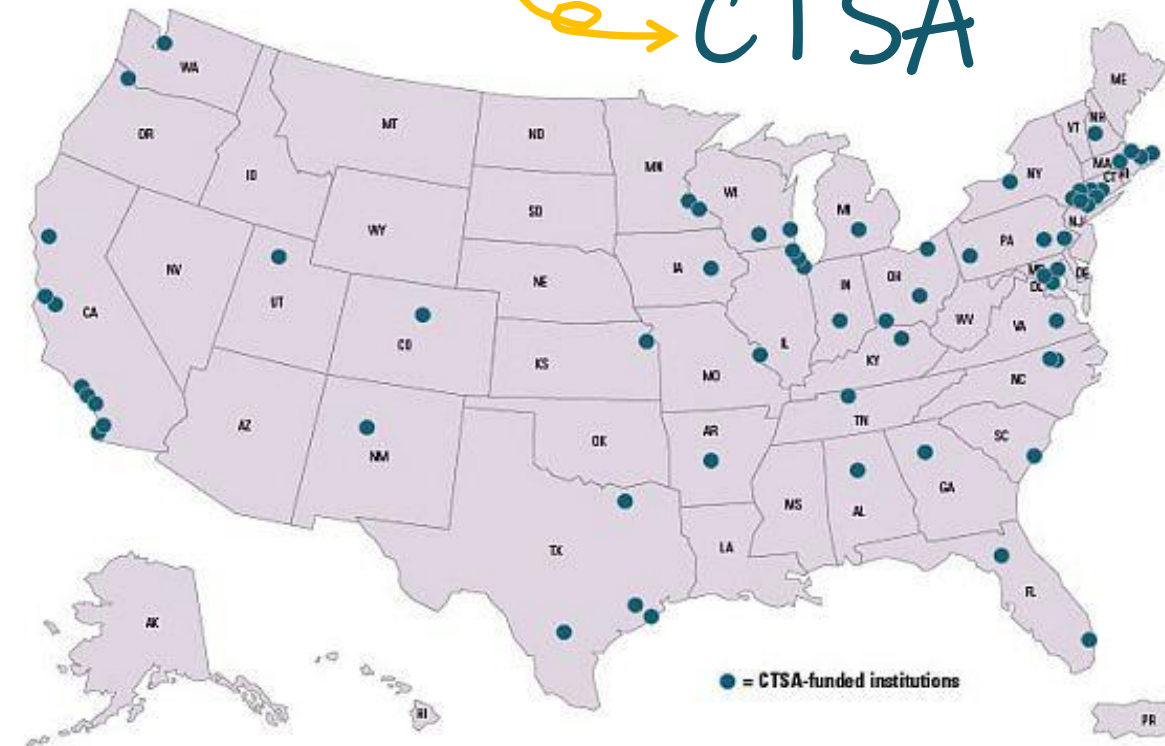
Frontiers is funded via a **\$27 million**

CLINICAL & TRANSLATIONAL SCIENCE AWARD

CTSA

Designed to:

- Catalyze innovative research
- Foster collaboration regionally & nationally
- Quickly implement research findings into treatments for patients
- Be a national resource for the rapid response to urgent public health needs

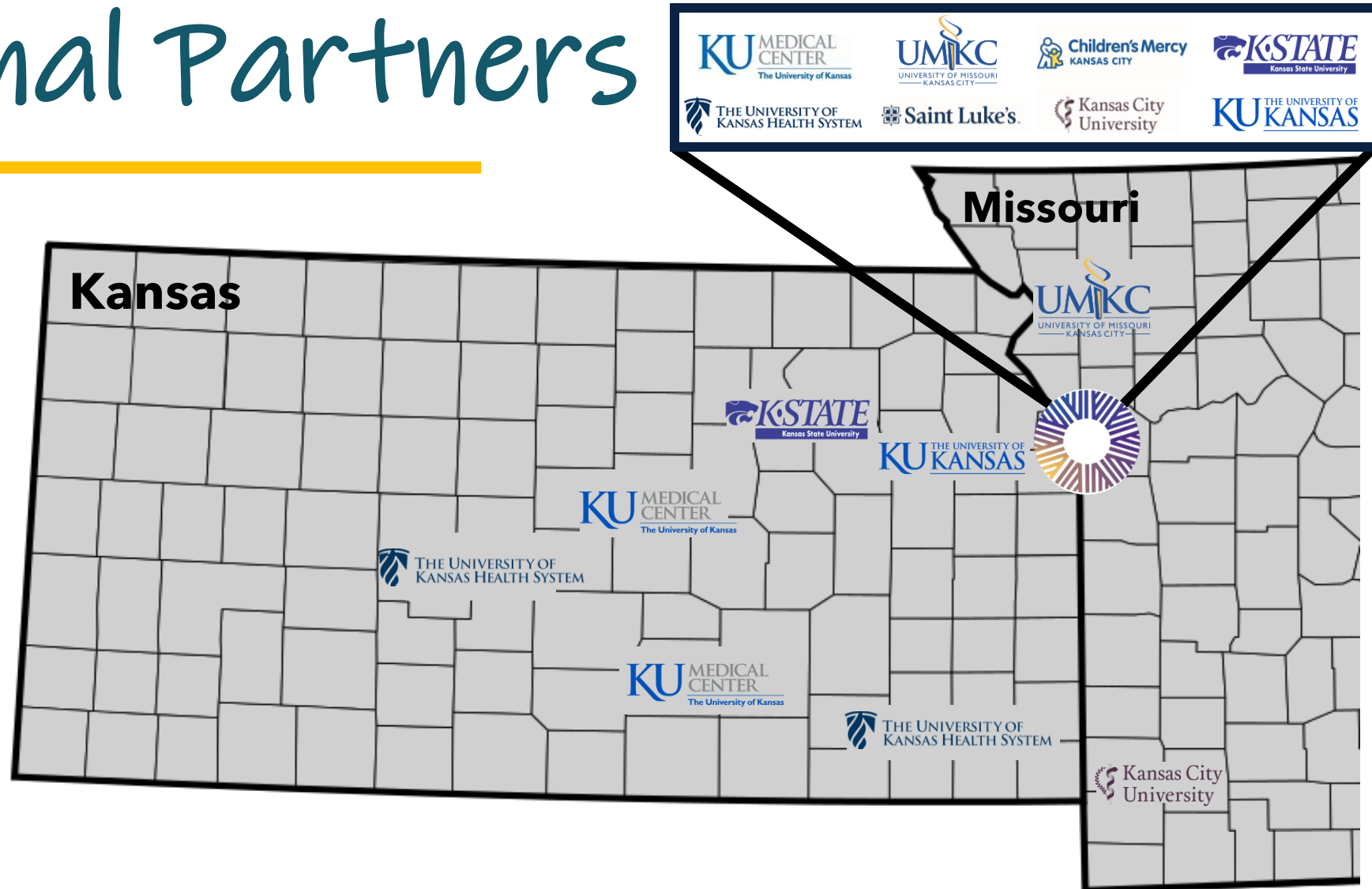


1 of 63 CTSA programs across the country



Frontiers works with Regional Partners

Including **8**
healthcare
institutions
across
Kansas &
Western
Missouri





Frontiers' Leadership

Co-PIs



Mario Castro,
MD, MPH
Co-PI, Director



Steve Leeder,
PharmD, PhD
Co-PI



Julius Leary,
EdD, MBA
Executive Director



Bill Brooks,
PhD
Associate Director



Frontiers offers various

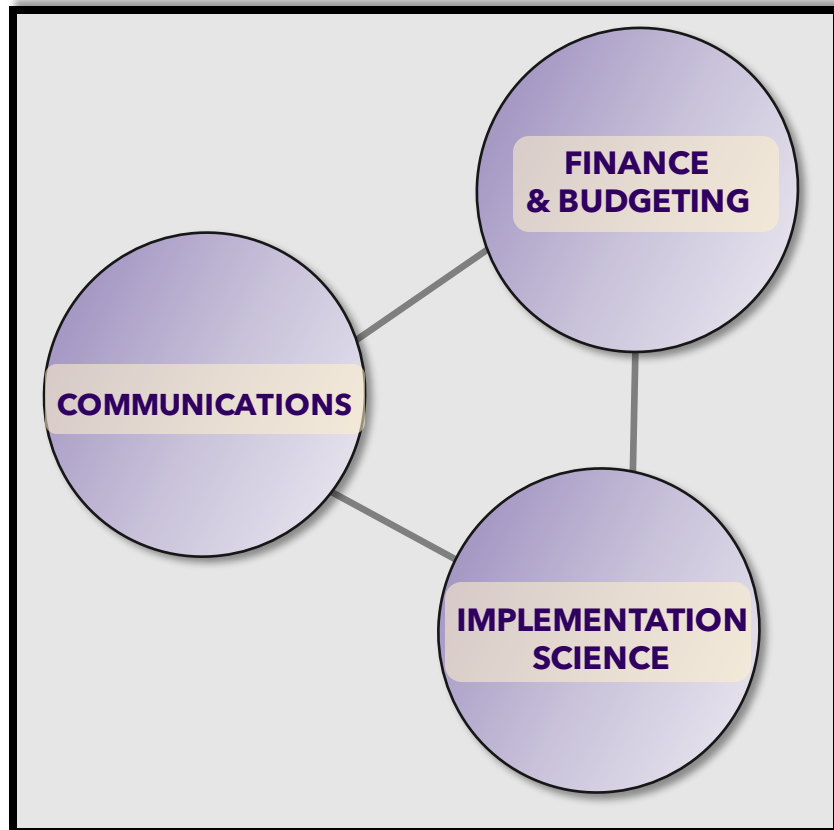
Resources & Services

- We provide **FREE** consults for our services
- **Become a member** to stay up to date on events, resources, and opportunities



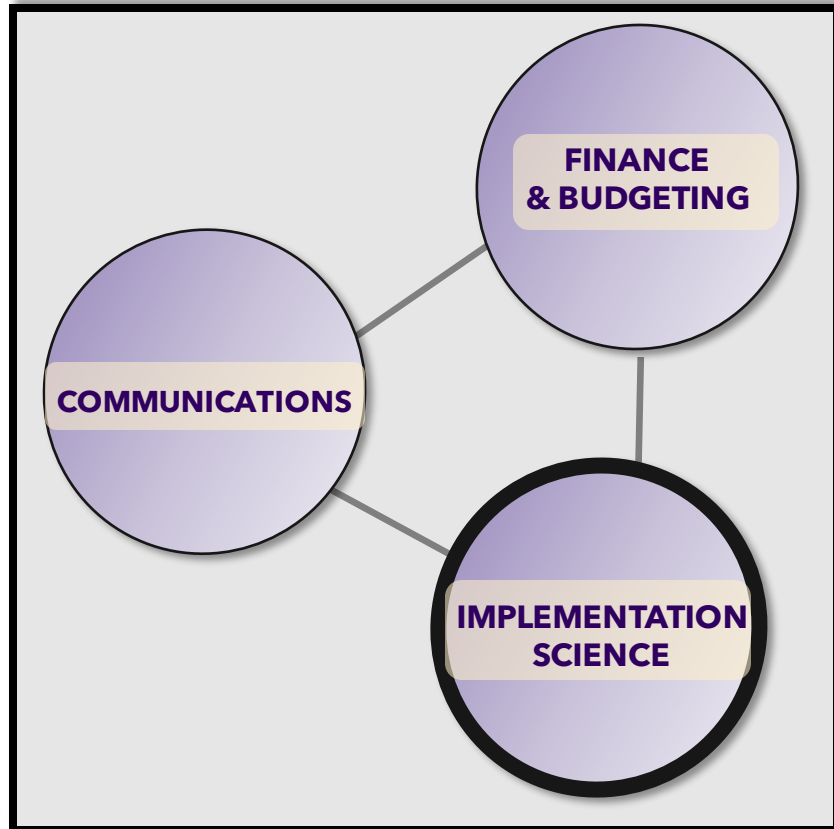


CENTRAL TEAM





CENTRAL TEAM



IMPLEMENTATION SCIENCE

It takes ~**17 years** for research evidence to be integrated into real-world practice. Implementation Science **bridges the gap**, by offering:



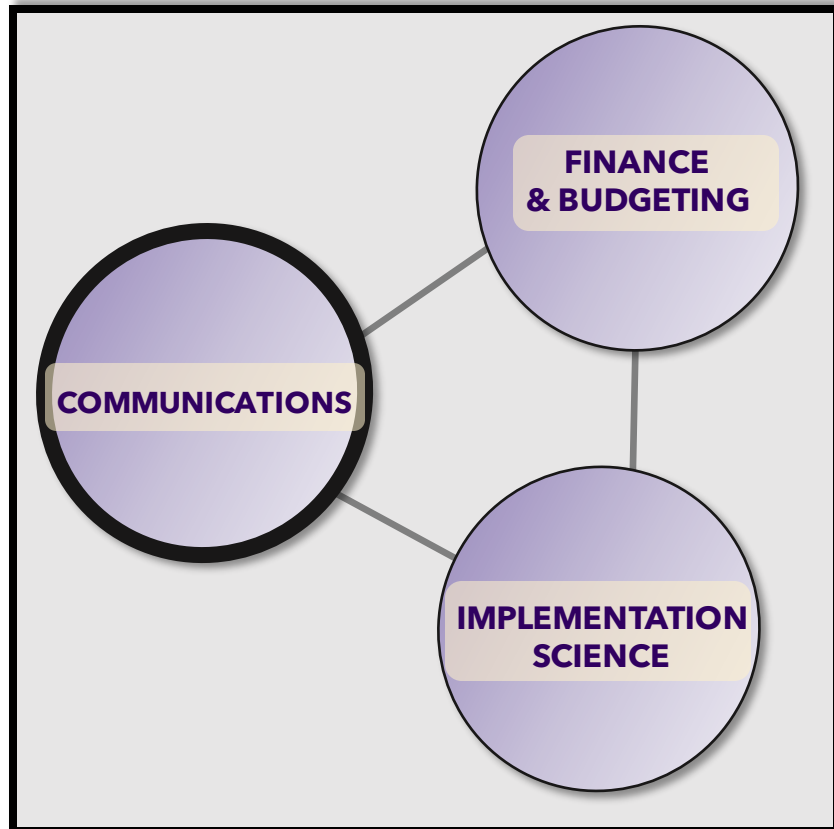
- Grant & Study Design
- Quarterly Networking Group
- Training & Coursework



← *Contact*
Maggie Padek Kalman
mpadekkalman@kumc.edu
Implementation Science



CENTRAL TEAM



SCIENCE COMMUNICATIONS

- Help with **ANY** audience
 lay people or scientific experts
- Figures
- Posters
- Presentations
- Grants
- Manuscripts

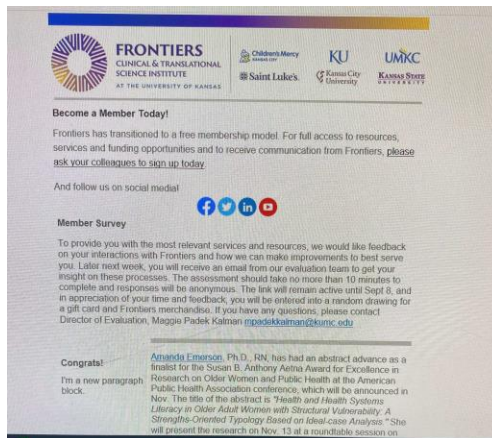
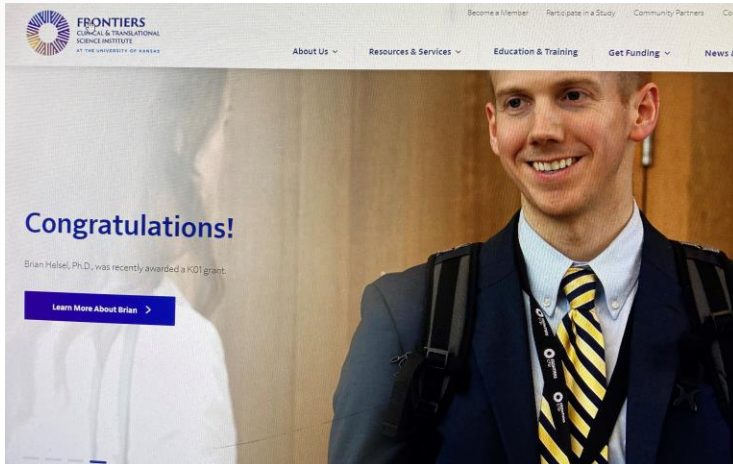
Register here



Grant Study Section:

AUG	OCT	NOV	DEC	FEB
Applicant Letter of Intent Due	Complete Draft Proposals Due	Study Section Meeting Held	Study Section Feedback Returned	Standard NIH Winter Deadline
08/25	10/06	11/27	12/05	02/05

Experts review grants (before actual submission) to increase the grant's likelihood of being funded



COMMUNICATIONS



SOCAL MEDIA

- Distributes information across our network
- **Spread the news about:**
 - Updates on your science program
 - Events going on in your institution or department
- Stay up to date on all that is going on in Frontiers!



← **Contact**

Kelly Hale

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Communications

Frontiersctsi.org



FUNDING, EDUCATION, & TRAINING

- Research & Discovery Grand Rounds
- Frontiers Scholars Club
- MS-Clinical Research degree
- Study Coordinator Bootcamp

Contacts



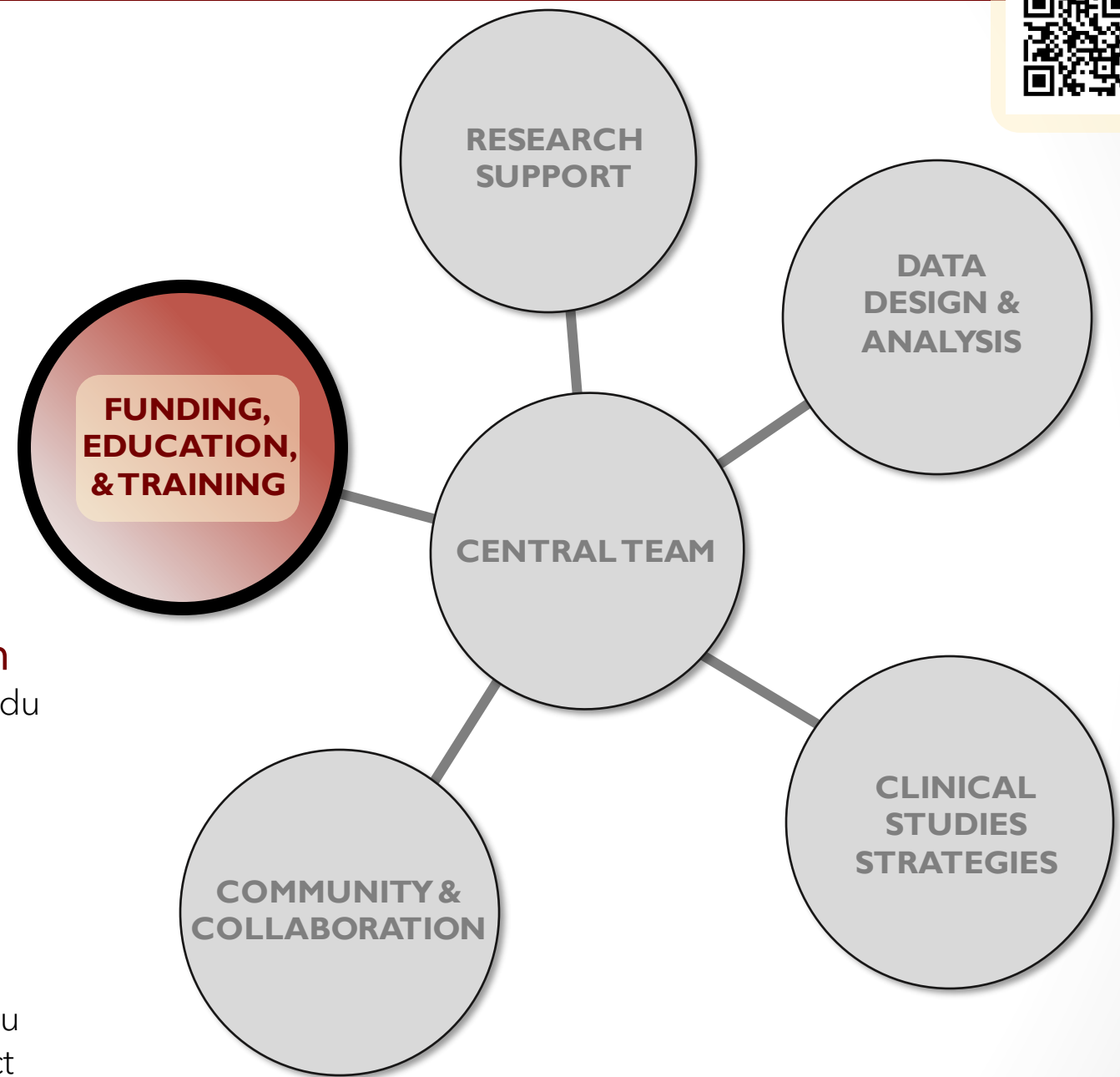
Ashley Carlson

acarlson5@kumc.edu
Education



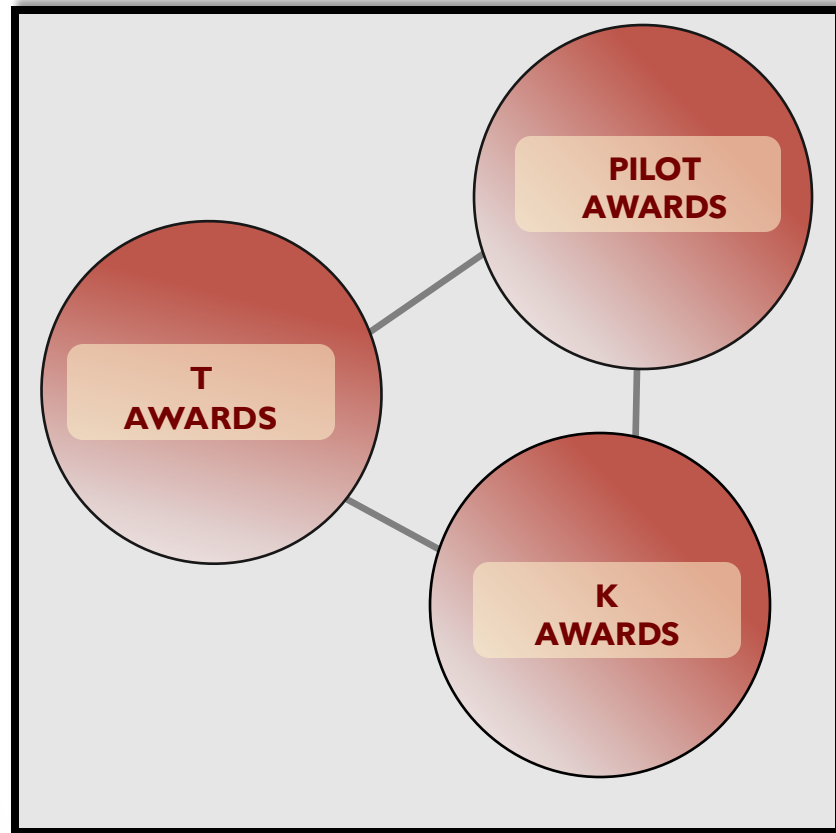
Holly Zink

hzink2@kumc.edu
KL2 & TL1 Project
Director



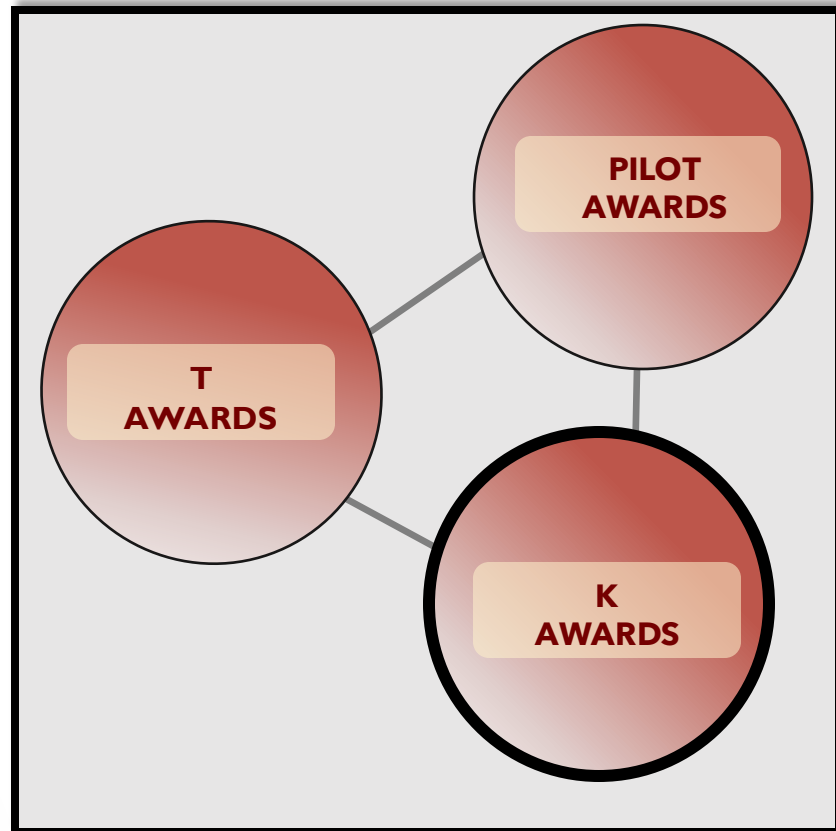


FUNDING, EDUCATION, & TRAINING





FUNDING, EDUCATION, & TRAINING



K AWARDS

- Mentored Career Development (2 years - up to 75% salary support and \$25K project cost per year)
- Fosters **early career faculty** development



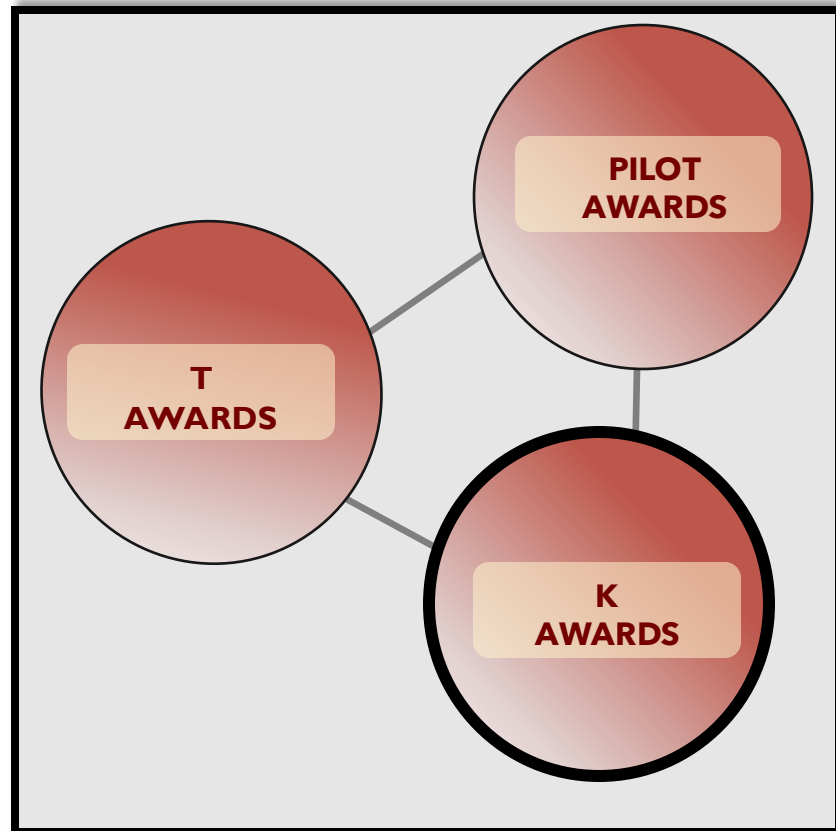
Stephani Stancil,
Children's Mercy, KL2 scholar



Dana Bakula,
Children's Mercy, KL2 scholar



FUNDING, EDUCATION, & TRAINING



K SCHOLAR HIGHLIGHT:



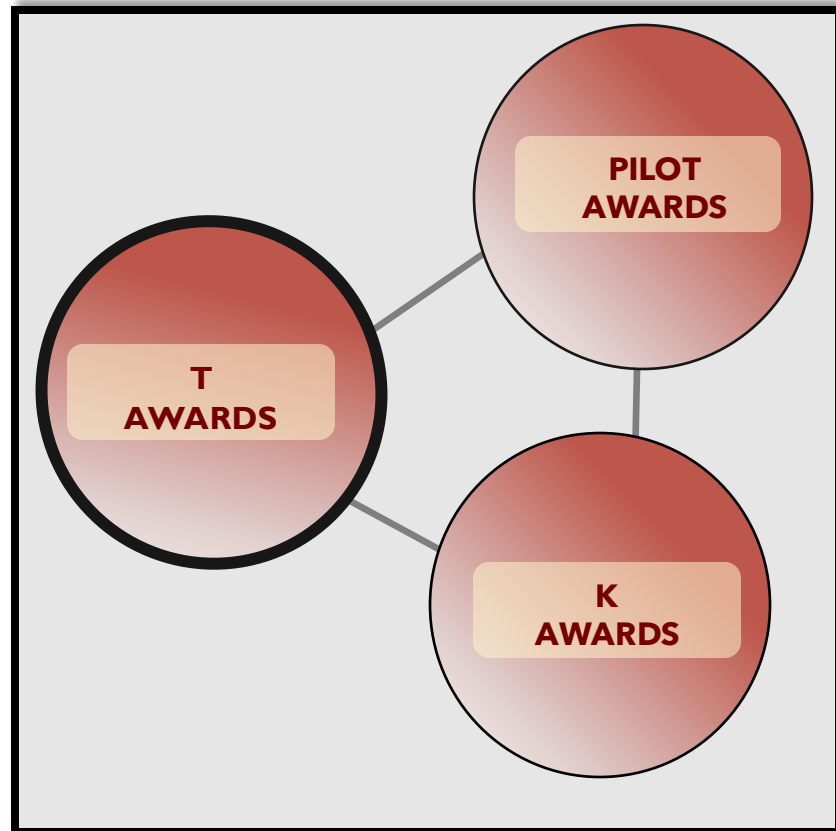
Megha Ramaswamy, PhD, MPH

- Ground-breaking research addressing health disparities in the criminal justice system
 - Behavioral Interventions
 - System-level interventions
 - Intersection of sexual health and cancer prevention
- Grants totaling over \$15 million
- Currently, the chair of Population Health at University of Washington

For more information on [Dr. Ramaswamy](#)



FUNDING, EDUCATION, & TRAINING

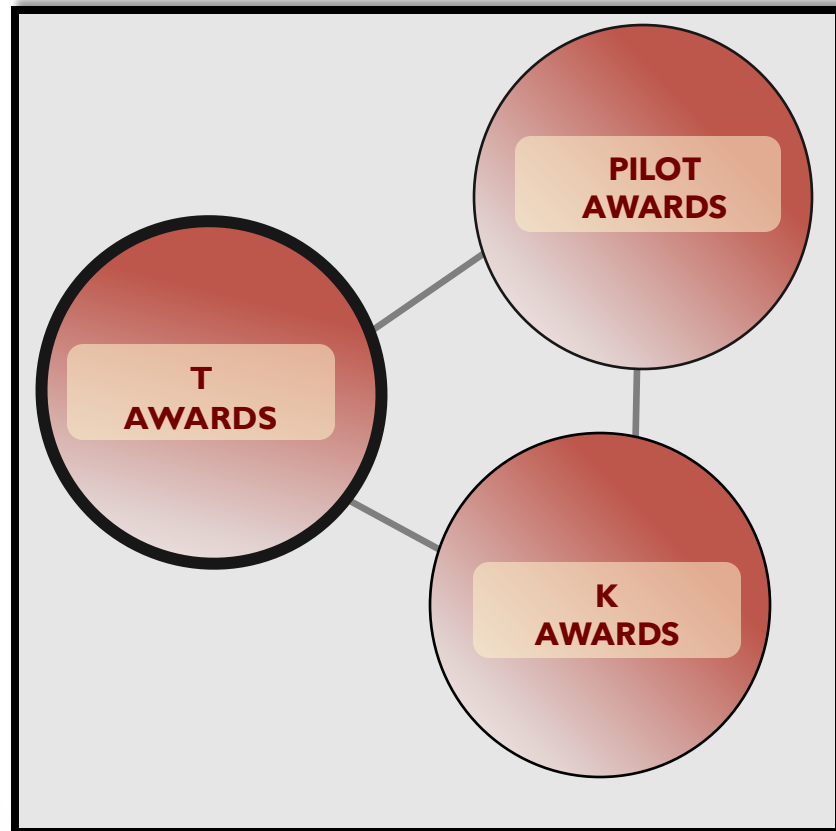


T AWARDS

- **Predoctoral** (1 year – up to \$40,000)
Dual-degree training for students within the final two years of their clinical doctoral degree
MD, DO, DNP, PharmD, DPT, DDS, DVM, and clinical PhD
- **Postdoctoral** (1 or 2 years – up to \$50,000)
For recent graduates of doctoral programs, clinical fellowships, or residencies



FUNDING, EDUCATION, & TRAINING



T SCHOLAR HIGHLIGHT:



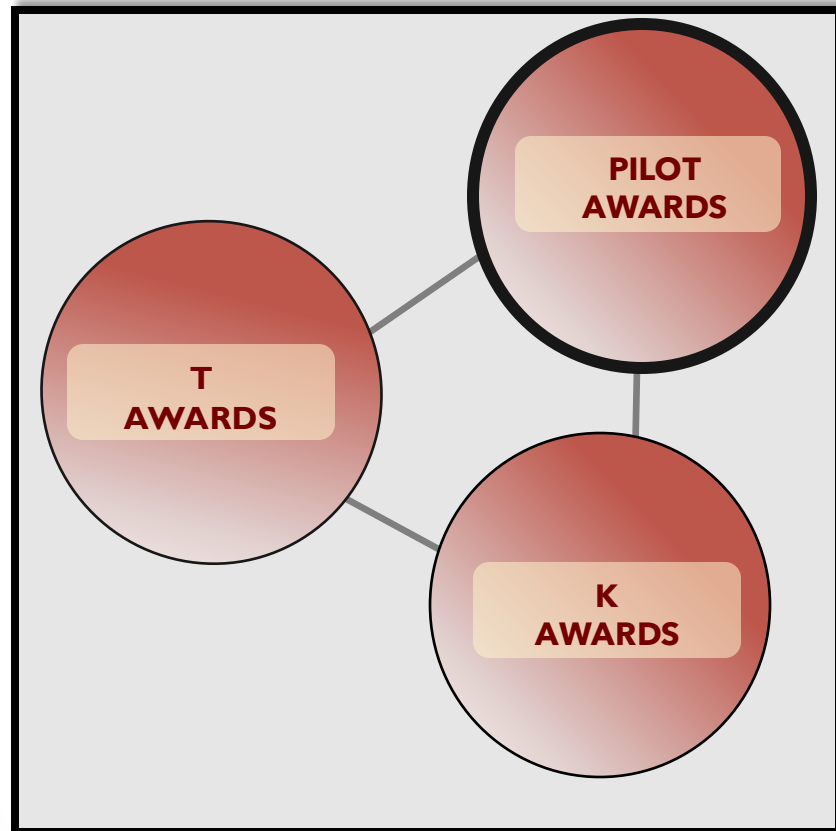
Eleanor Leavens, PhD

- Under Dr. Nikki Nollen, studied smoking habits and harm reduction tools
- Awarded a K01 to continue these studies
- First TL1 awardee to participate in a CTSA network trainee opportunity (at The Ohio State University)

For more information on [Dr. Leavens](#)



FUNDING, EDUCATION, & TRAINING

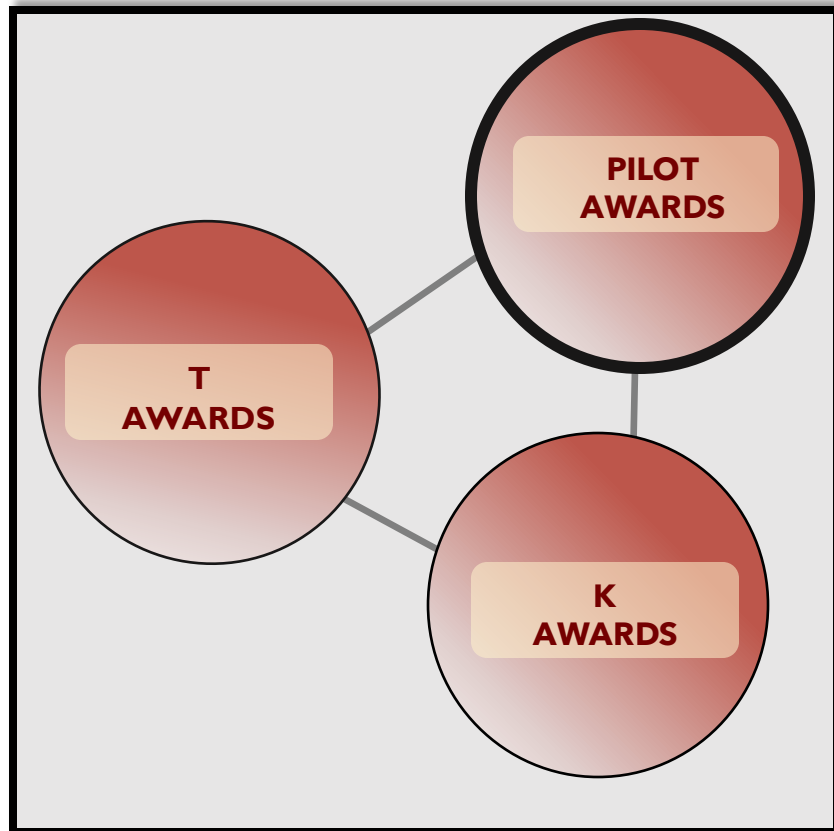


PILOT AWARDS

- Since 2011, we have provided over **\$10M** to more than **290** research projects
- We provide **5** different types of 1 year pilot awards:
 - **Lauren S. Aaronson** (up to \$50,000)
 - **Advancing Innovation Trailblazer** (\$20,000)
 - **Inter-Institutional** (up to \$175,000)
 - **Broderick Crawford Community-Research** (up to \$2,500)
 - **Biostatistics, Epidemiology, and Research Design** (up to \$20,000)



FUNDING, EDUCATION, & TRAINING

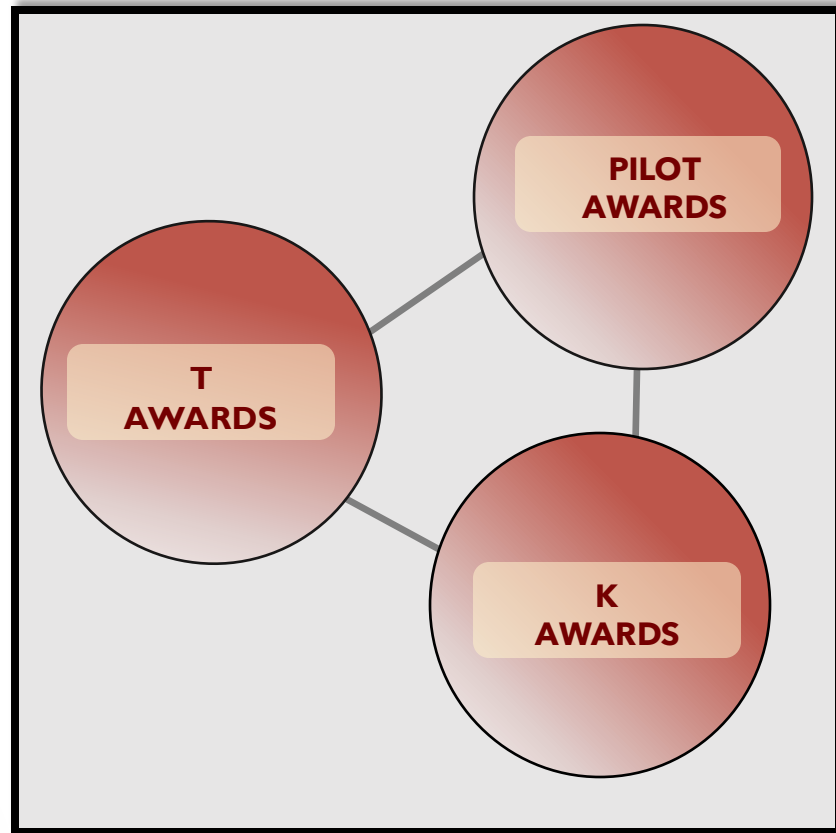


PILOT AWARDS

- **Lauren S. Aaronson**
 - For CTR projects across a broad range of scientific disciplines
- **Advancing Innovation Trailblazer**
 - For drug and device development (e.g., preliminary data, equipment, enhancing a funded project)
- **Inter-Institutional**
 - For projects that involve at least 2 of 8 institutions of the CORES CTSAs
- **Broderick Crawford Community-Research**
 - For development of new academic-community partnerships or to strengthen existing partnerships.
- **Biostatistics, Epidemiology, and Research Design**
 - For statistical, epidemiological, and data science projects



FUNDING, EDUCATION, & TRAINING



PILOT SCHOLAR HIGHLIGHT:



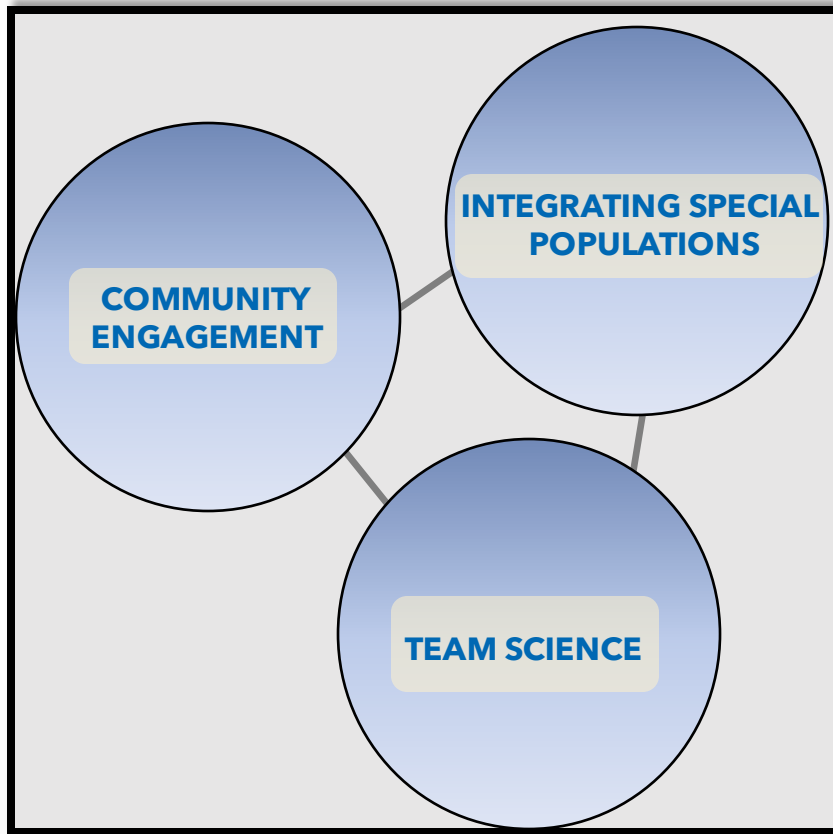
Jonathan Brumberg, PhD

- Interdisciplinary project uniting 3 of Frontiers' partners
- Determines effectiveness of a brain-computer interface
- Goal: overcome physical barriers in communication of children with neuromotor impairments & loss of speech

For more information on [Dr. Brumberg](#).

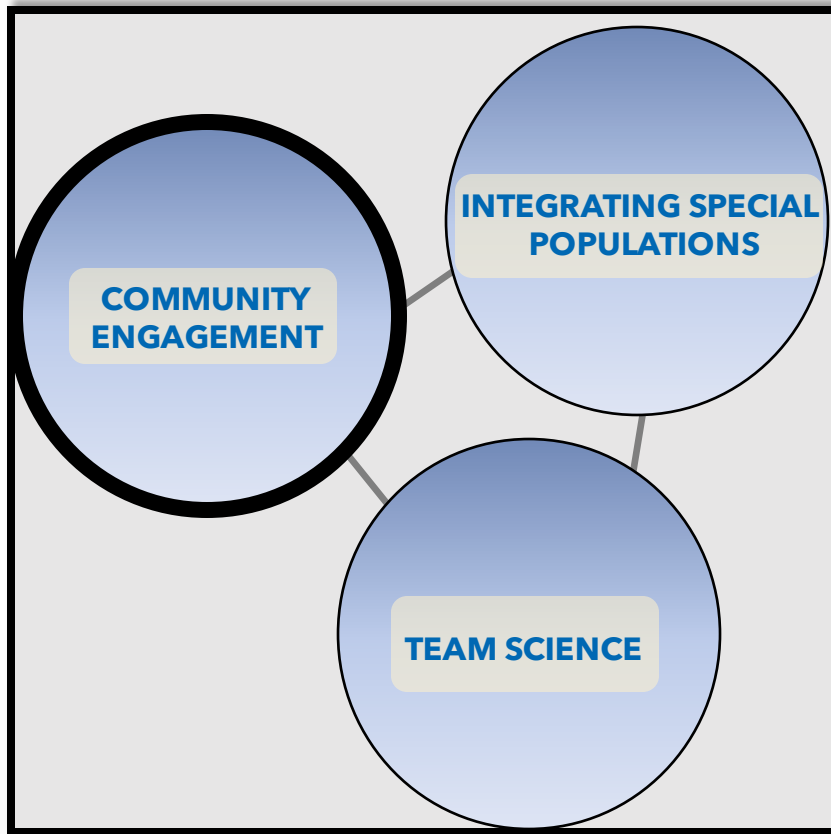


COMMUNITY & COLLABORATION





COMMUNITY & COLLABORATION



COMMUNITY ENGAGEMENT

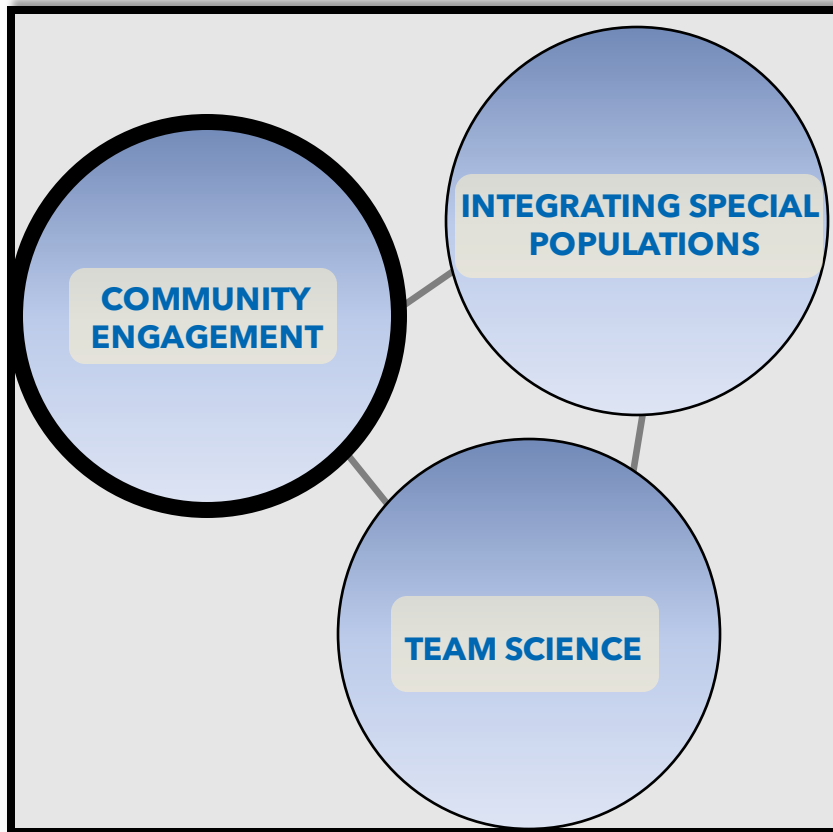
Collaborates with patients, stakeholders, & community partners to bridge the gap between the **community** and healthcare workforce by offering:

- Community feedback on grant applications
 - Rapid reactor panels
- Community Events
- Translation & Communication help





COMMUNITY & COLLABORATION



COMMUNITY ENGAGEMENT

Contact:



Cherayla Haynes
chaynes@kumc.edu
Community



Mariana Ramírez
mramierez3@kumc.edu



150+ Events

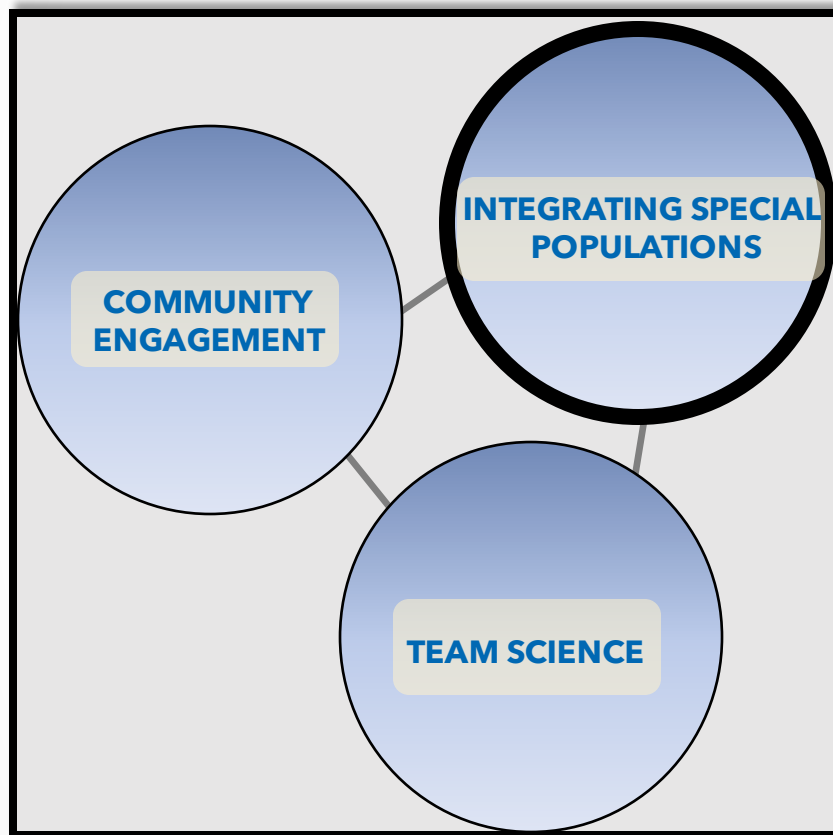
3,300
people reached



1,200 Covid
Vaccinations



COMMUNITY & COLLABORATION



INTEGRATING SPECIAL POPULATIONS

Goal: increase participation of underserved & historically excluded populations in research, such as rural communities & rare disease



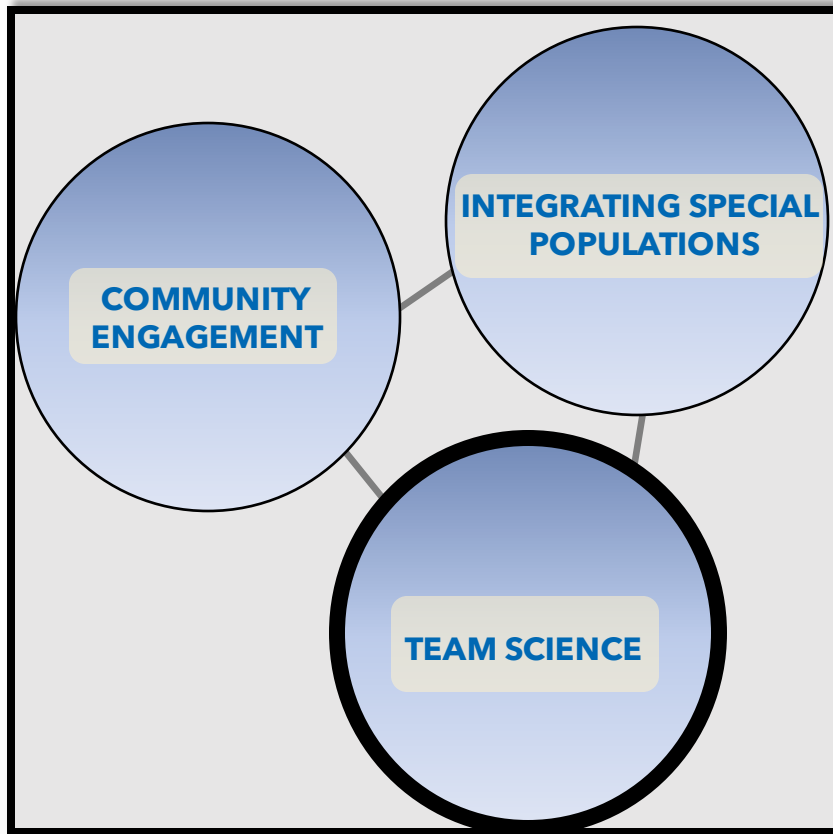
Discovery of candidate therapeutic for Vici Syndrome, a **rare pediatric disorder**, using patient-derived cells



← **Contact**
Carolyn Vivian
cvivian@kumc.edu
Integrating Special Populations



COMMUNITY & COLLABORATION



TEAM SCIENCE

Promotes collaboration across ***scientific disciplines***

→ to help research teams work together

Workshop topics include:

- Team building / leadership
- Justice, equity, diversity, & inclusion



— Contact — →



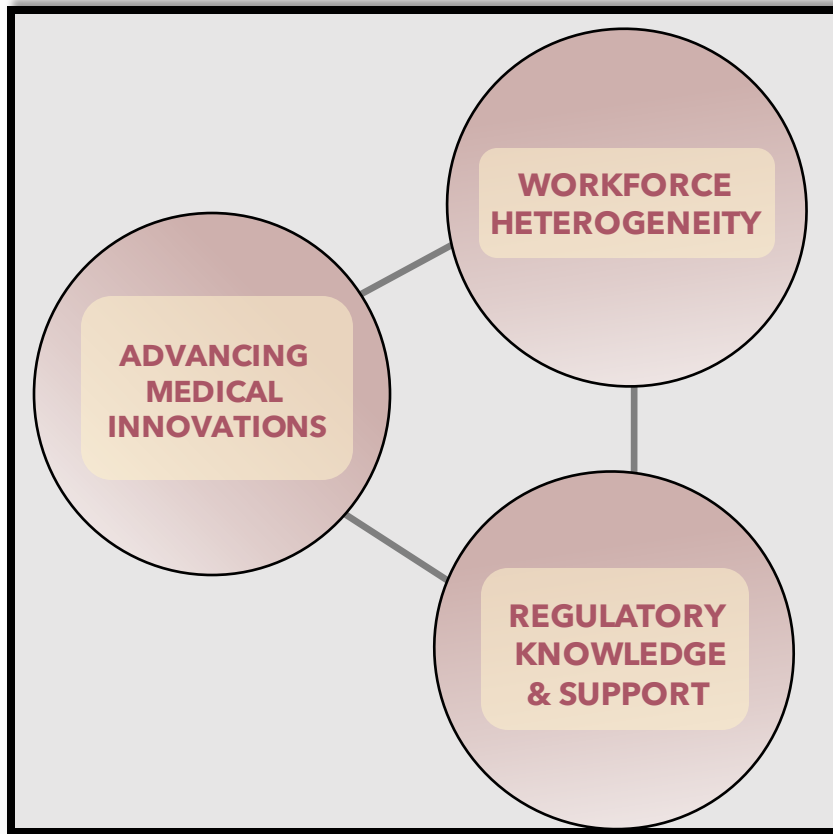
Drew Fox

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Team Science

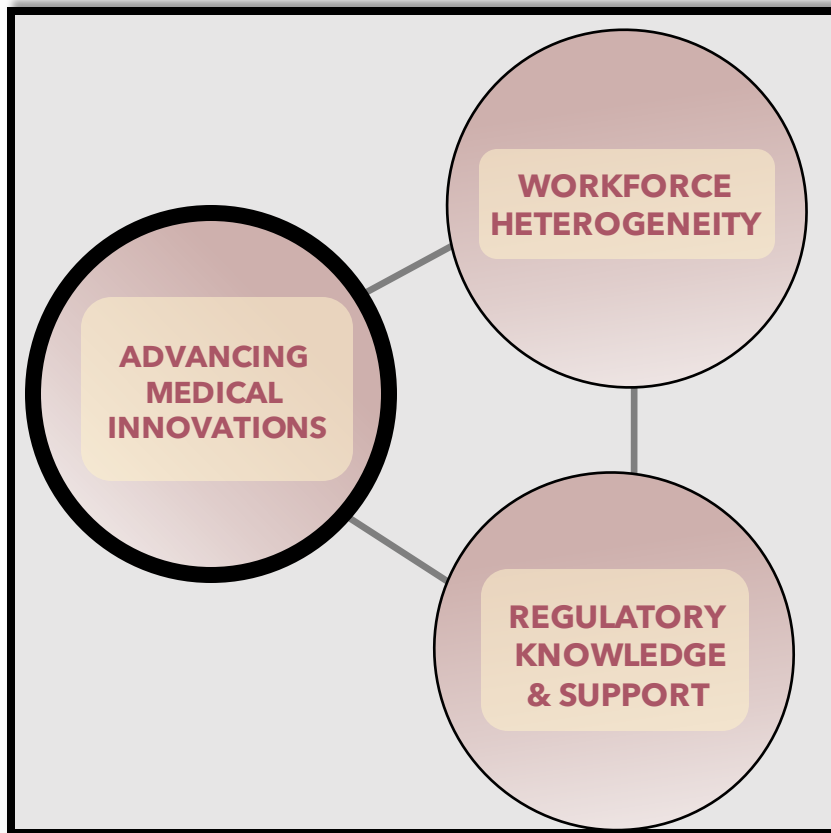


RESEARCH SUPPORT





RESEARCH SUPPORT



ADVANCING MEDICAL INNOVATIONS

Goal: facilitate development
of new drugs & devices

By offering:

- Drug libraries & screening facilities
- Regulatory expertise
- Project management teams
- Business proposals



— *Contact* →



Carolyn Vivian

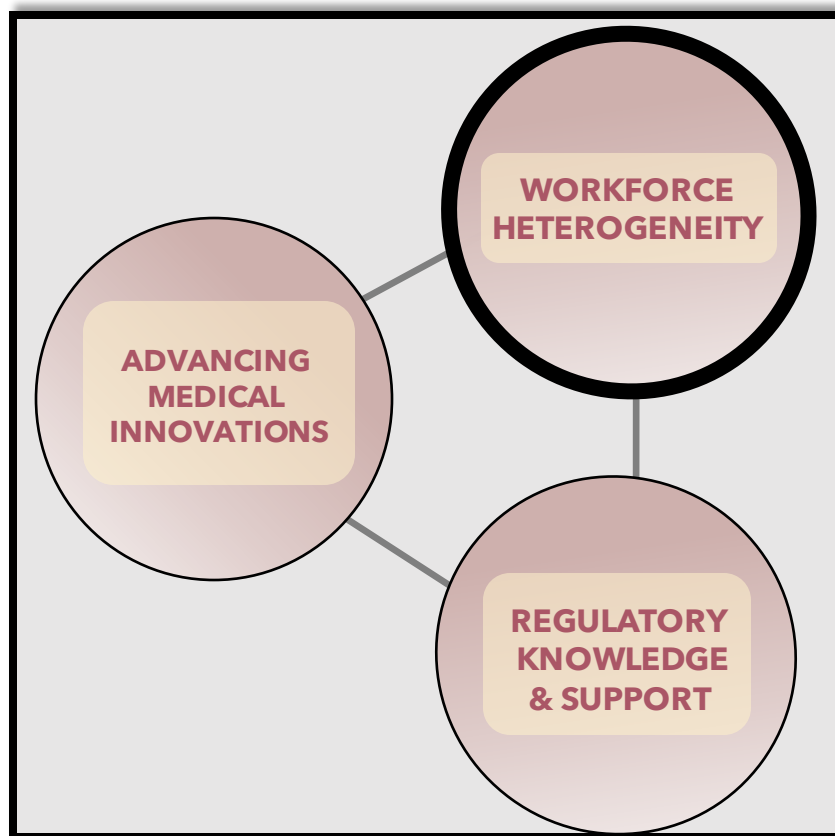
cvivian@kumc.edu

Integrating Special Populations



RESEARCH SUPPORT

WORKFORCE HETEROGENEITY



- Advocates for the recruitment, retention and overall success of a **diverse workforce** across all partner institutions
- Builds an **inclusive environment**
↳ where diversity is seen as an essential asset for generating knowledge that benefits the various populations that we serve

Contact:



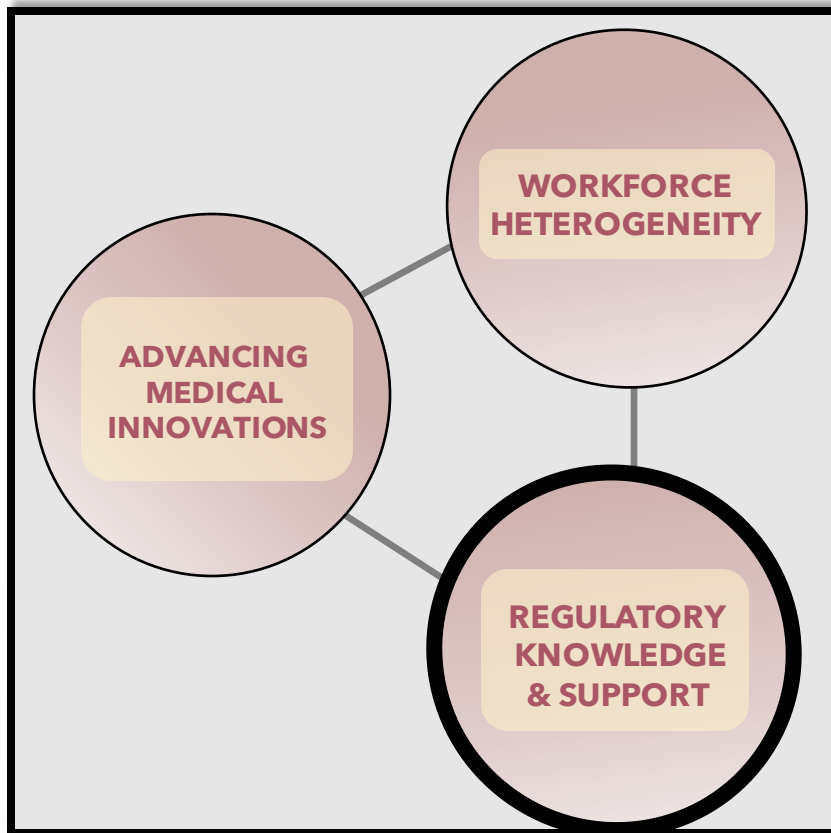
Carrie Francis
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Workforce Heterogeneity



Bridgette Jones
bljones@cmh.edu
Translational Endeavors



RESEARCH SUPPORT



REGULATORY KNOWLEDGE & SUPPORT

Regulatory governance
for clinical trials:

- IRB, FDA, INDs
- Grants management
- Contract support
- Training
- Research Acceleration
and Innovation Network



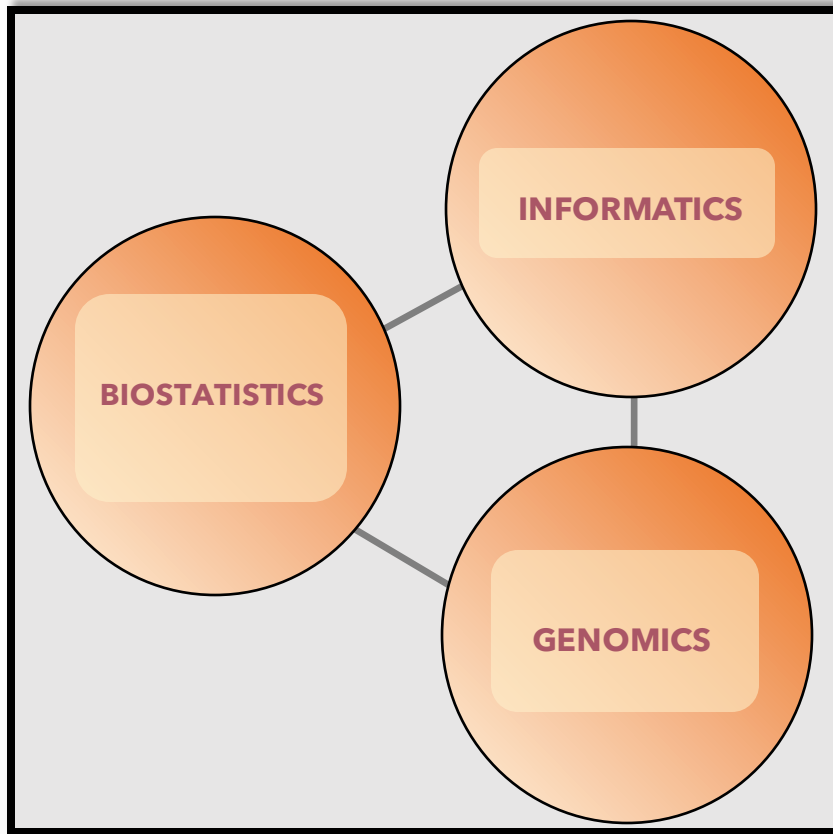
— Contact —→



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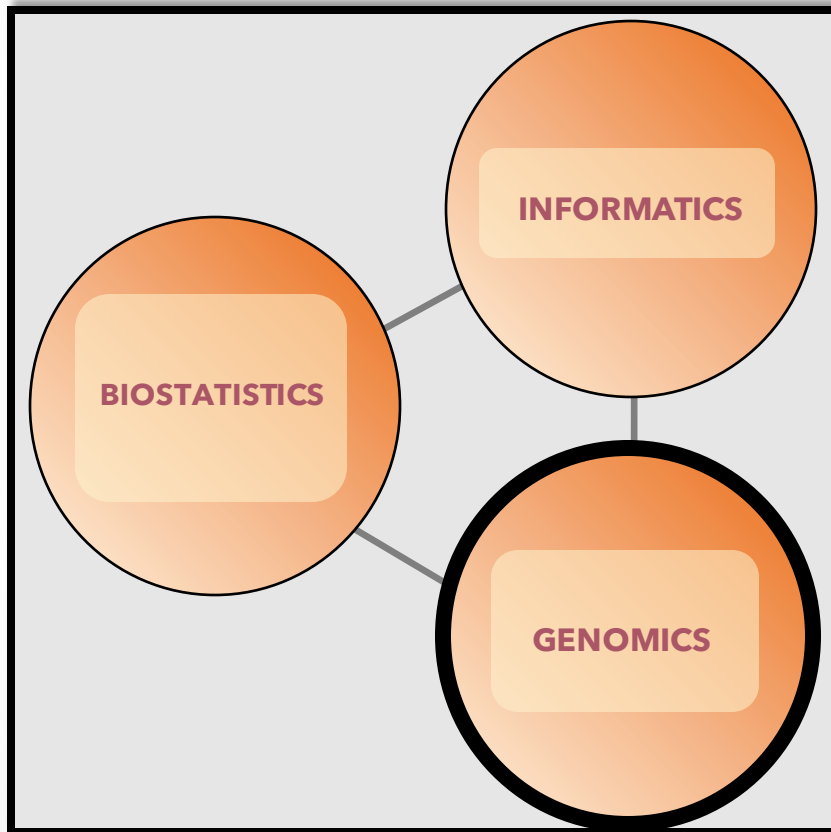


DATA DESIGN & ANALYSIS





DATA DESIGN & ANALYSIS



GENOMICS

- Sequencing investigator-provided libraries at cost to Frontiers members
- Study design
- Ethical, legal, & social issues
- Sample processing & biobanking



Olivia Veatch, KUMC
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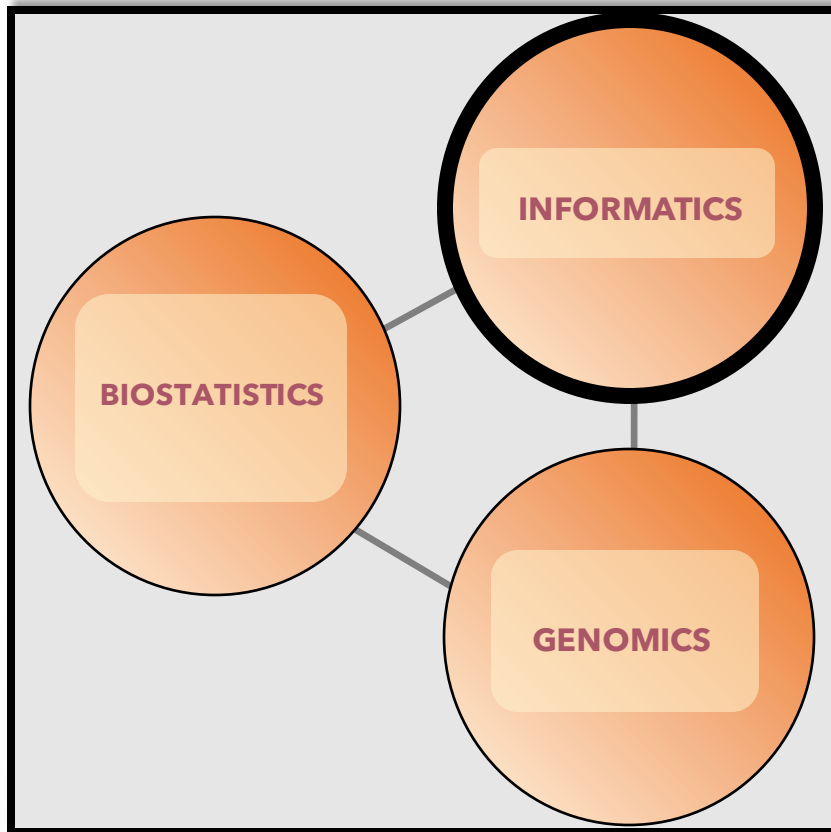
— *Contacts* →

Rebecca McLennan, CMH
rmclennan@cmh.edu





DATA DESIGN & ANALYSIS



INFORMATICS

- Integrate research & clinical workflow
- Clinical data and participant requests & collection
- Health System integration
- Deep phenotyping

Contact:



Mary Penne Mays
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→ RedCap



Sravani Chandaka
schandaka@kumc.edu

→ Clinical data

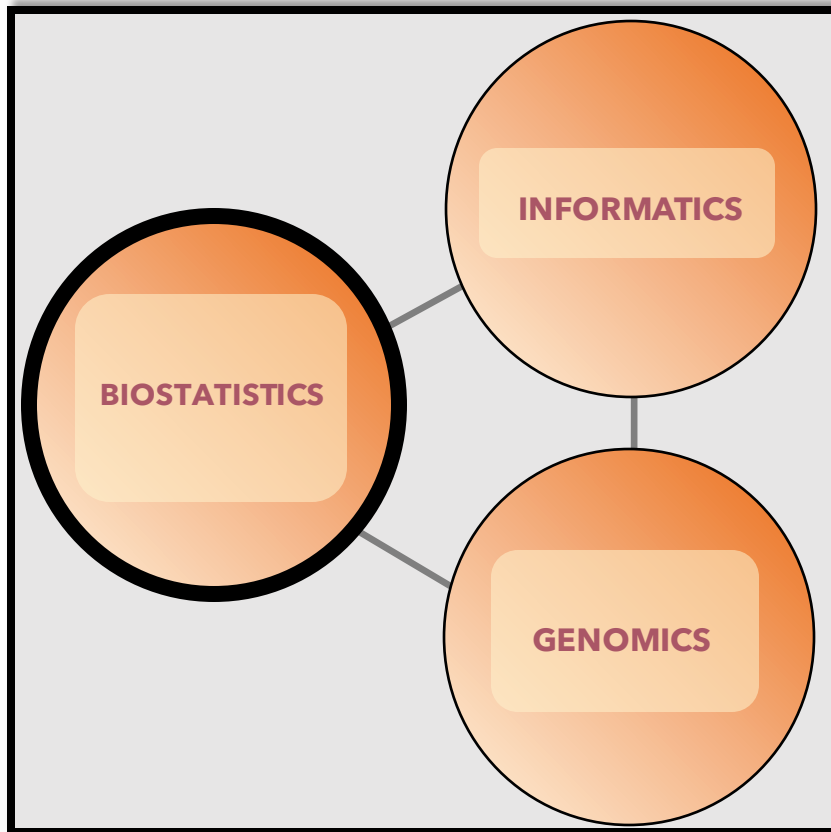


Goutham Marikanti
gmarikanti@kumc.edu

→ Informatics



DATA DESIGN & ANALYSIS



BIOSTATISTICS

Methodological and analytic support for projects:

- Voucher program
- Open forums
- Budget development & negotiation
- Coordination of study activation
- Statistical analysis and planning
- Data Management
- Study design



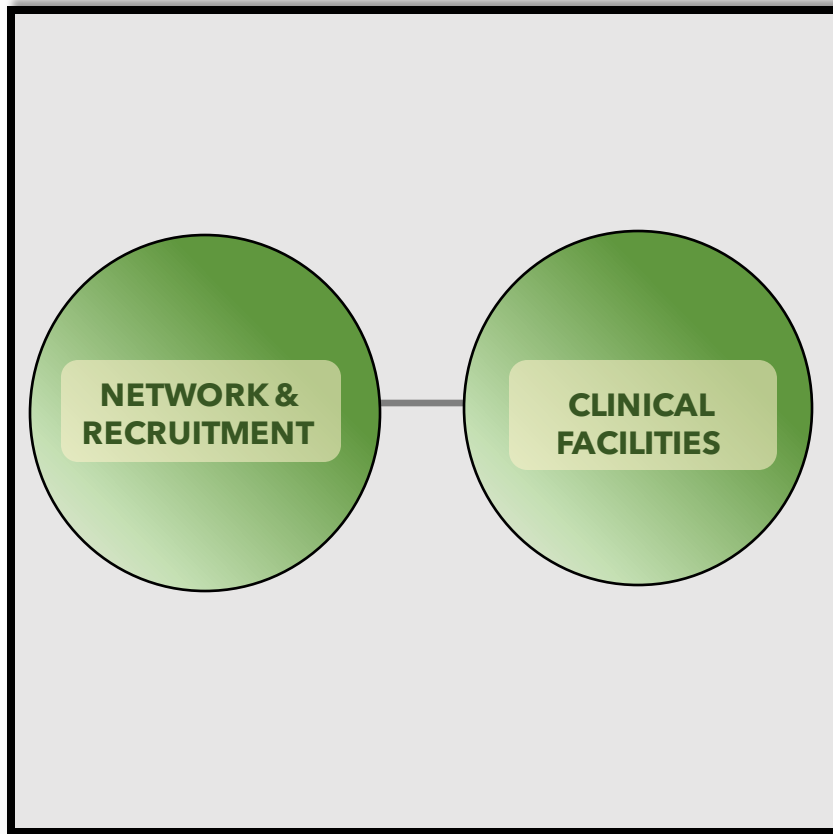
— Contact —→



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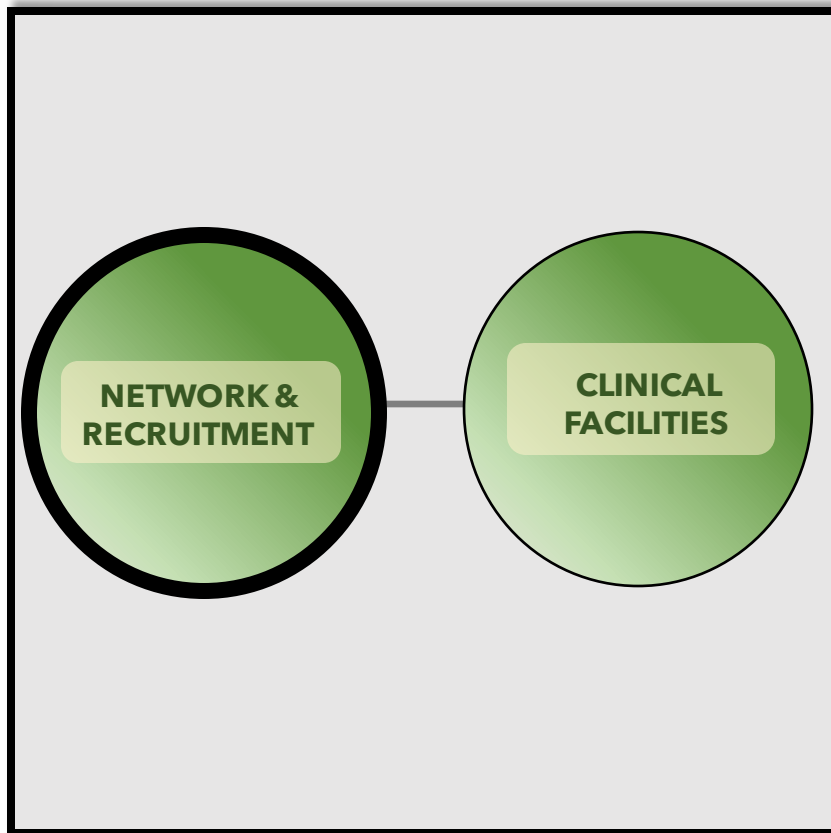


CLINICAL STUDIES STRATEGIES





CLINICAL STUDIES STRATEGIES



NETWORK & RECRUITMENT

Recruitment:

- Informatics EHR requests
- Toolkits/templates/guides
- Researchmatch.org

Network:

- Multisite (3+ sites) trial proposals reviewed by national experts
- Any stage of proposal development help with study design, budget, recruitment & retention



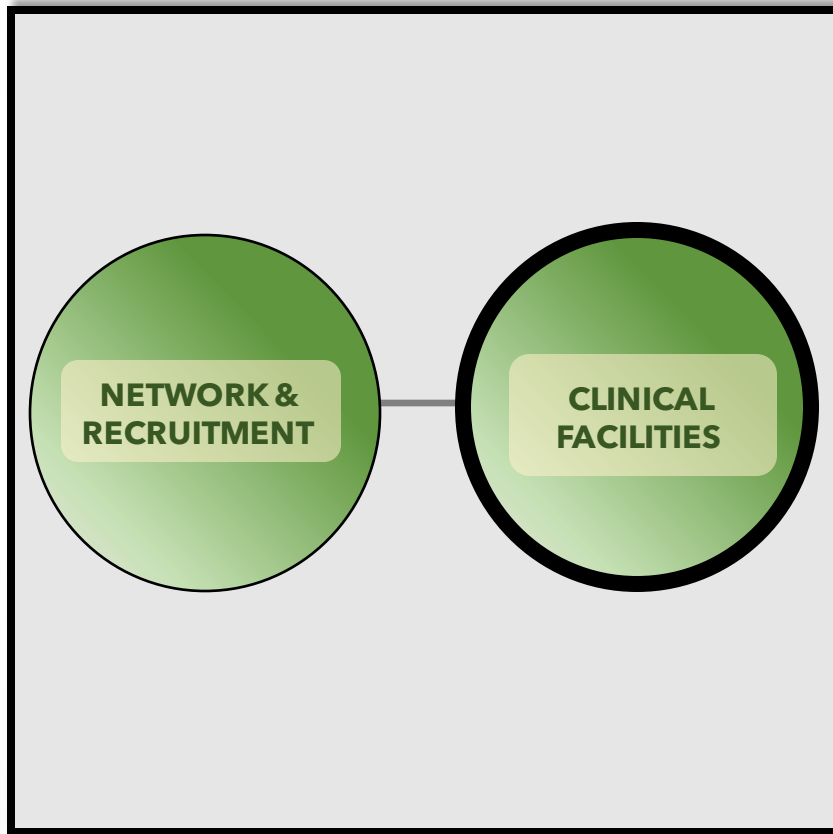
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CLINICAL STUDIES STRATEGIES

CLINICAL FACILITIES



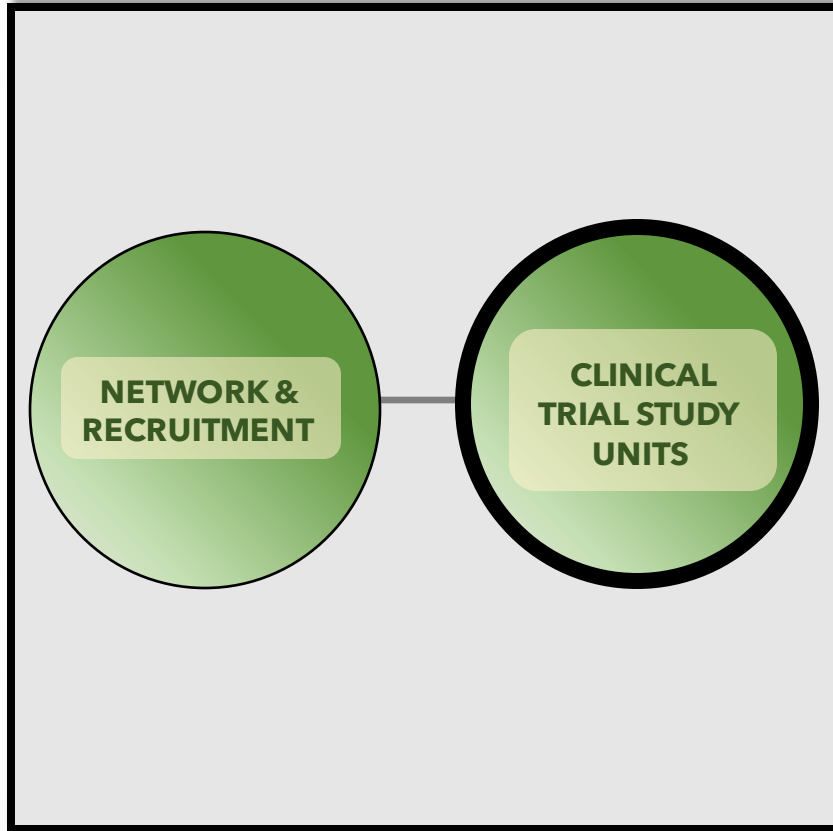
CTSU_s

- Comfortable, accessible exam/ study spaces for researchers & participants
- Resources include:
 - Sample processing & testing
 - Exam rooms
 - Experienced clinical personnel





CLINICAL STUDIES STRATEGIES



We offer 5 CTSUs:

Children's Mercy, Kansas City, MO



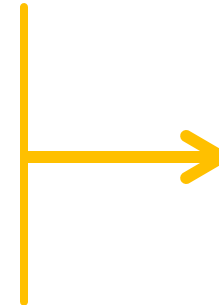
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Swope, Kansas City, MO

Fairway, Fairway, KS



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Wichita, Wichita, KS



Trisha Steele
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THANK YOU FOR YOUR
INTEREST!



FRONTIERS

CLINICAL & TRANSLATIONAL SCIENCE INSTITUTE

AT THE UNIVERSITY OF KANSAS

