

UVA's Clinical and Translational Science Award (CTSA)

iTHRIV

integrated Translational Health Research Institute of Virginia

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AGENDA

- ❖ What is Clinical and Translational Science Award (iTHRIV)?
- ❖ What is Translational Science?
- ❖ How does this grant support translation in the Paul and Diane Manning Institute of Biotechnology

iTHRIV

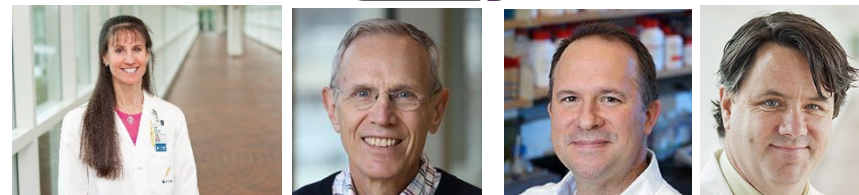
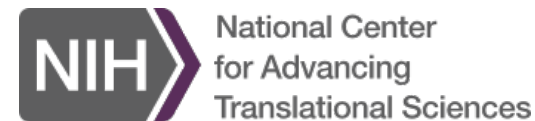
Our NIH funded Clinical and Translational Science Award (CTSA)

- ❖ CTSA is a large NIH grant
- ❖ Funds our Translational Research Institute – **iTHRIV**
- ❖ Not a typical research grant – supports:
 - Training
 - Early Career Scholars (KL2 program)
 - Entire Research Workforce
 - Infrastructure
 - Data Science/Informatics
 - Community Engagement
 - Research Rigor
 - Pilot Programs

What is iTHRIV?



- ❖ NIH funded Translational Research Institute
 - ❖ One of ~60 elite research hubs in national network
 - ❖ Infrastructure to support clinical & translational research across Virginia
- ❖ NIH Program seeks to transform medical discoveries into treatments and cures
 - “Develop more treatments for all people more quickly”***
- ❖ Ideal to support the Manning Biotech Institute

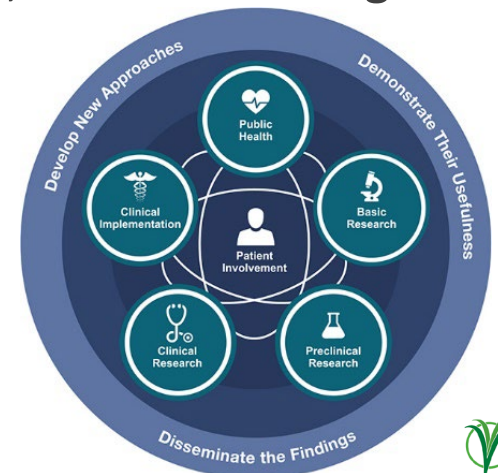


<https://ncats.nih.gov/ctsa>

What is Translational Science?

Biomedical Translation – YouTube

- ❖ Transforming biomedical research and medicine
- ❖ Turn observations in the lab, clinic and community into interventions that improve people's lives
- ❖ Discover, Develop, and Disseminate next generation of science/technology
- ❖ Diagnostics, Therapeutics, Medical Procedures, Devices, Behavior Changes
- ❖ Train the workforce
- ❖ Team Science – across the translational spectrum
- ❖ Includes the patient perspective



All to improve health in any/all diseases



iTHRIV Collaborations

Internal (UVA)

- School of Medicine
- Health System
- Health Sciences Library
- Diversity, Equity, Inclusion Offices
- School of Data Science
- School of Nursing
- School of Education
- School of Engineering & Applied Sciences
- College of Arts & Sciences
- Vice President for Research Office
 - Licensing & Ventures Group

External

- **Virginia Tech**
- Carilion Clinic
- Center for Open Science
- **Inova** (cycle 1)
- Virginia Cooperative Extension Network (cycle 2)
- Virginia State University (cycle 2)
- Virginia Dept of Health (cycle 2)
- National CTSA Institutions
 - **Virginia Commonwealth Univ**
 - **Children's National**
- **EVMS**



iTHRIV: The Future of Translational Research

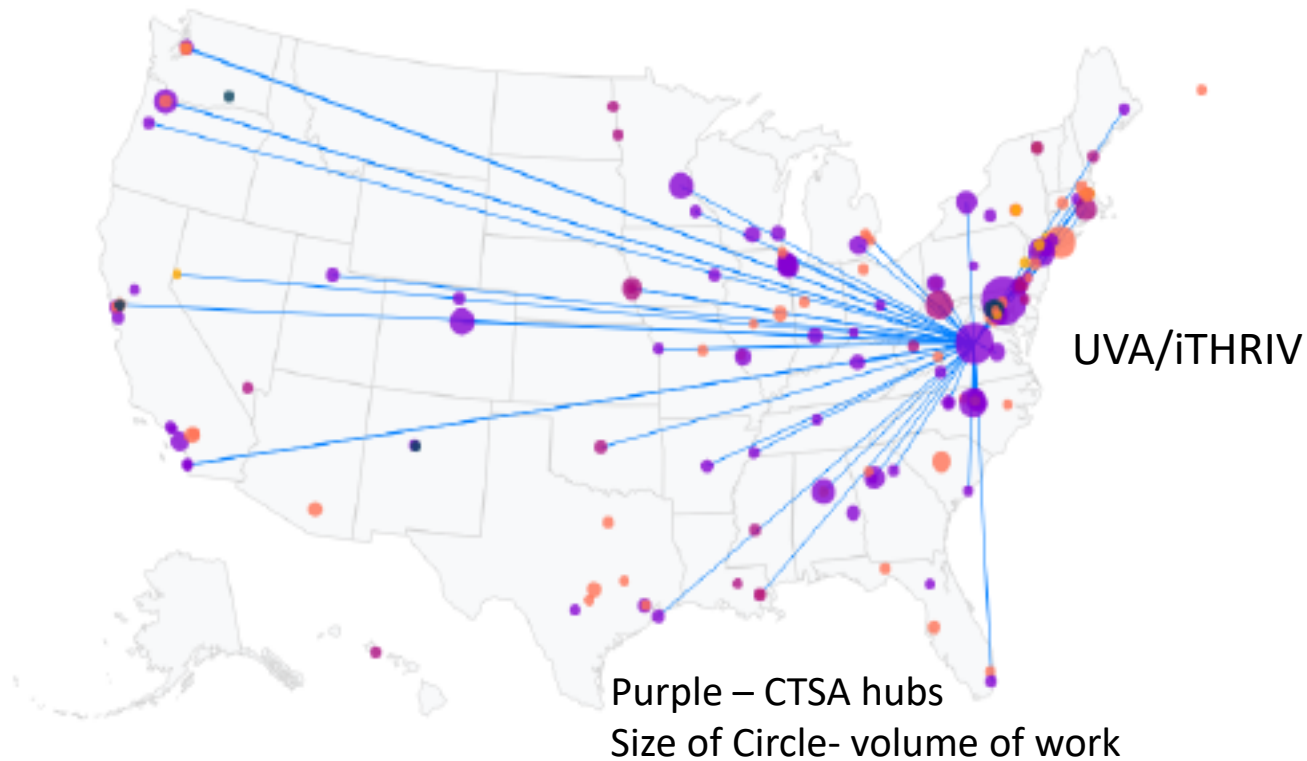
❖ Real World Data – NIH Priority



National
COVID
Cohort
Collaborative

Sites collaborating with University of Virginia

54 Local Investigators, 123 Project Memberships, 28 Enclave Projects



How does iTHRIV support the Manning Biotechnology Institute?



iTHRIV Support Manning Biotech Institute

Assure We Hit the Ground Running!

1. Accelerate Translational Research

- ❖ Infrastructure to support discovery
- ❖ Infrastructure to support translation to patient care

2. Catalyze collaborative science for biotech discovery

- ❖ Virginia Tech
- ❖ VCU
- ❖ EVMS
- ❖ VSU
- ❖ Children's National

3. Catalyze statewide clinical trials network

- ❖ In collaboration with the UVA Clinical Trial Office



Questions/Discussion



<https://www.ithriv.org/>

<https://portal.ithriv.org>

Email: KJ4V@Virginia.edu

*Please help us continue our support for clinical and translational research by citing our grant number in relevant publications:
National Center for Advancing Translational Science of the National Institutes of Health Award UL1TR003015/ KL2TR003016.*

Additional Information

Sample iTHRIV Resources for Research Teams

iTHRIV Research Concierge Portal (<https://portal.ithriv.org>) web or live info

iTHRIV Research Data Commons (<https://portal.ithriv.org>) scalable research data infrastructure for safe, secure collection; storage; sharing and analysis of data

Proposal Development resources multiple resources/training including 6 week NIH proposal development series. <https://portal.ithriv.org/#/resource/726>

Writing Accountability Groups (<https://portal.ithriv.org/#/resource/1532>)

- ❖ A peer-facilitated, active writing group that meets weekly for 1 hour and is focused on developing a process and habit of writing.

Specific Aims Review peer review of NIH aims page by Scientific Advisory Board. <https://portal.ithriv.org/#/resource/1540>

Biostatistics, Epidemiology and Research Design (BERD)

(<https://portal.ithriv.org/#/resource/1415>)

- ❖ Support for a quick power calculation, a statistical analysis plan to include in a grant proposal, or a full collaborative analysis.

NIH Data Management/Sharing Plan <https://guides.hsl.virginia.edu/nih-dmsp>

- ❖ Tools and templates for NIH plan development support <https://portal.ithriv.org/#/resource/1689>
- ❖ Dissemination and Implementation Consults <https://portal.ithriv.org/#/resource/1867>



Sample iTHRIV Resources for Research Teams

Recruitment Enhancing Resources Program

(<https://portal.ithriv.org/#/resource/1248>)

- ❖ offers resources (translation services, transportation, lodging, community engagement studios) to researchers conducting NIH funded and/or investigator initiated research studies.

Human Subjects System: Guides and Templates for NIH Grant

Applications (<https://portal.ithriv.org/#/resource/837>)

- ❖ Guidance for teams or individuals preparing NIH grant submissions which involve human subjects.

Research Database Support: REDCap

(<https://portal.ithriv.org/#/resource/171>)

- ❖ Research Electronic Data Capture is a fast and flexible secure web application for building and managing online surveys and databases.

Community Engagement Studios

(<https://portal.ithriv.org/#/resource/937>)

- ❖ Facilitated discussions that bring together community experts to provide feedback on specific research projects.



iTHRIV Training Programs (examples)

- **iTHRIV Scholars/KL2 Program**
 - 2-year mentored career development program for early career faculty
 - UVA and VTC – integrated program
- **Broad Workforce Development Programs**
 - **iDRIV** (Inspiring Diverse Researchers in Virginia) – early career URM researchers career development program
 - **Biomedical Data Science Innovation Lab** – National innovation/team science program w/virtual microlabs & residential workshop – research topic varies
 - **RAPTR** (Research Administration Portal for Training and Resources)
 - **Clinical Research Coordinator Education Series** – shared, virtual program
 - **Learning Short/Podcast** program – brief audio/video trainings focused on data science, team science, rigor, and regulatory science
 - **Mentor Training** program – train-the-trainer program to grow mentors
 - **Proposal Development Series** – 6 session series for NIH proposal development

Summer programs

- **SOAR** (Summer Opportunities in Academic Research) – URiM High School/Undergrad
- **CUBE** (Collaborative Undergraduate Biostats Experience)- URiM Undergrads
- **Data Justice Academy**- URiM undergrads- mentored data science research experience