CCTSI Town Hall

Ronald J. Sokol, MD

Director and MPI of CCTSI

Janine Higgins, PhD
Director of Operations and MPI
of CCTSI

Denver Health, April 19, 2024



CTSA PROGRAM

- Clinical and Translational Science Award (NIH)
- Grants originate from NCATS at NIH

 An NIH-funded national consortium of biomedical research institutions collaborating to transform how clinical and translational science is conducted nationwide

 Currently, 62 funded Hubs, many of which include multiple universities and hospitals. • CTSAs provide many local resources, facilities, research personnel, pilot funding, regulatory and informatics support, community engagement, research units, specialized research programs and education & training programs



Colorado Clinical and Translational Sciences Institute

CCTSI is the Colorado CTSA Hub

Substantial institutional support (funding)

"Disease – agnostic"













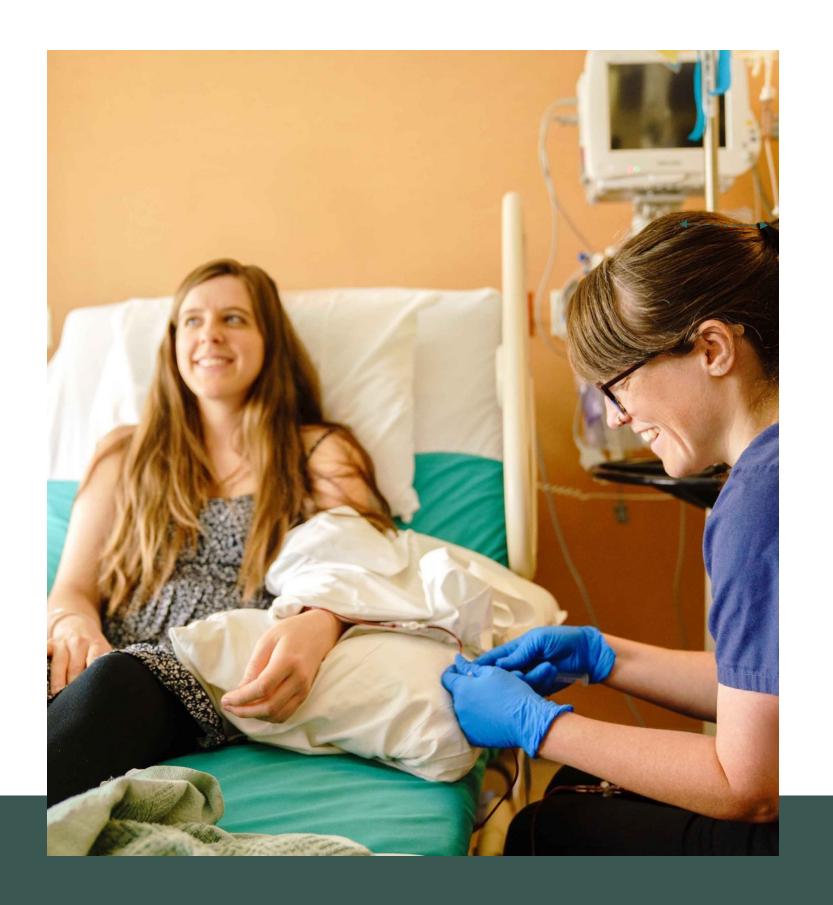
Created in 2008, refunded by NIH in 2013, 2018, 2023 (through 2030)

Supports all faculty, post-docs, trainees involved in clinical or translational research at 3 universities and 6 hospital partners

Infrastructure, research facilities, education and training, resources & services, community engagement, & health equity, pilot grant funding, special functions, etc.







CCTSI Vision

Accelerate and catalyze the translation of innovative science into improved, equitable health and patient care for all





CCTSI 4.0 Mission

Catalyze

Catalyze and enhance scientific discovery, innovation, dissemination and translation across the lifespan.

Educate

Educate and sustain a resilient, innovative and diverse translational science workforce.

Research

Promote and ensure an efficient, safe, collaborative and integrated **research** environment

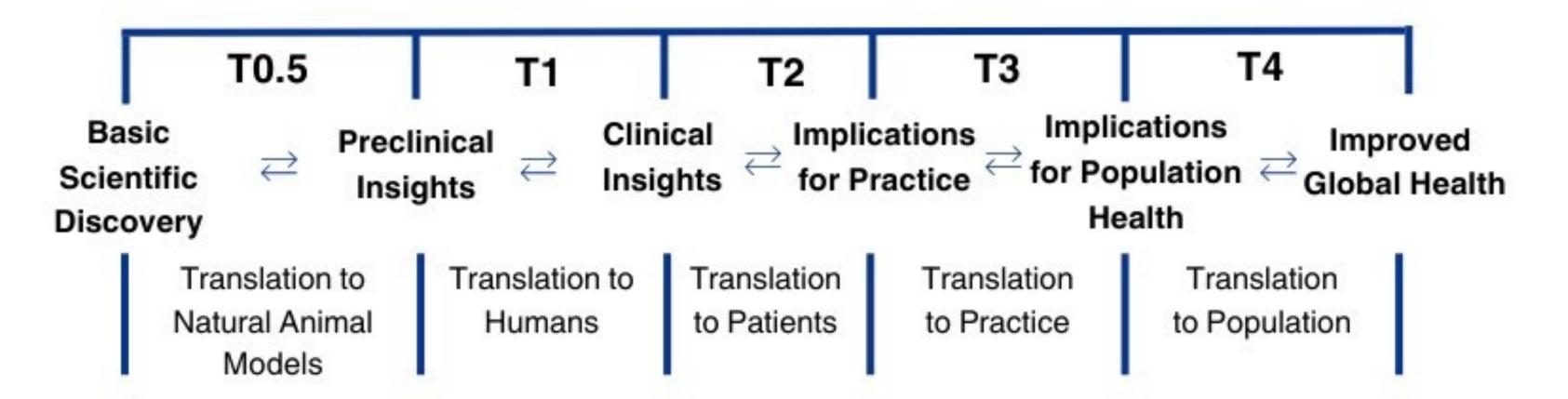
Communities

Engage stakeholders and communities across the entire translational spectrum





Spectrum of Translational Research











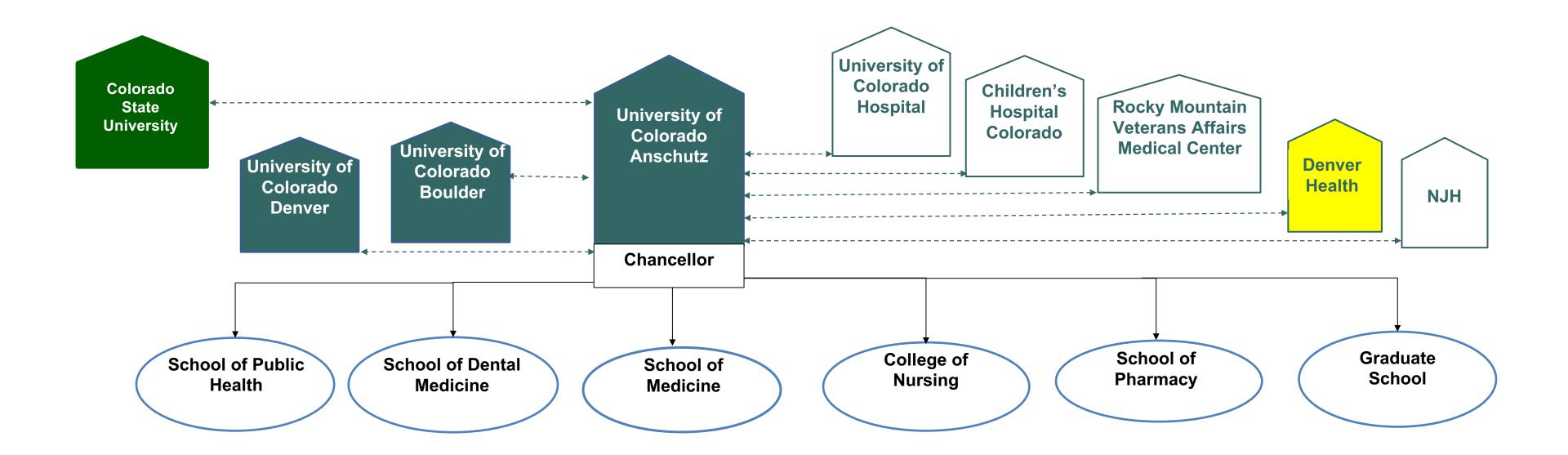








CCTSI Partners







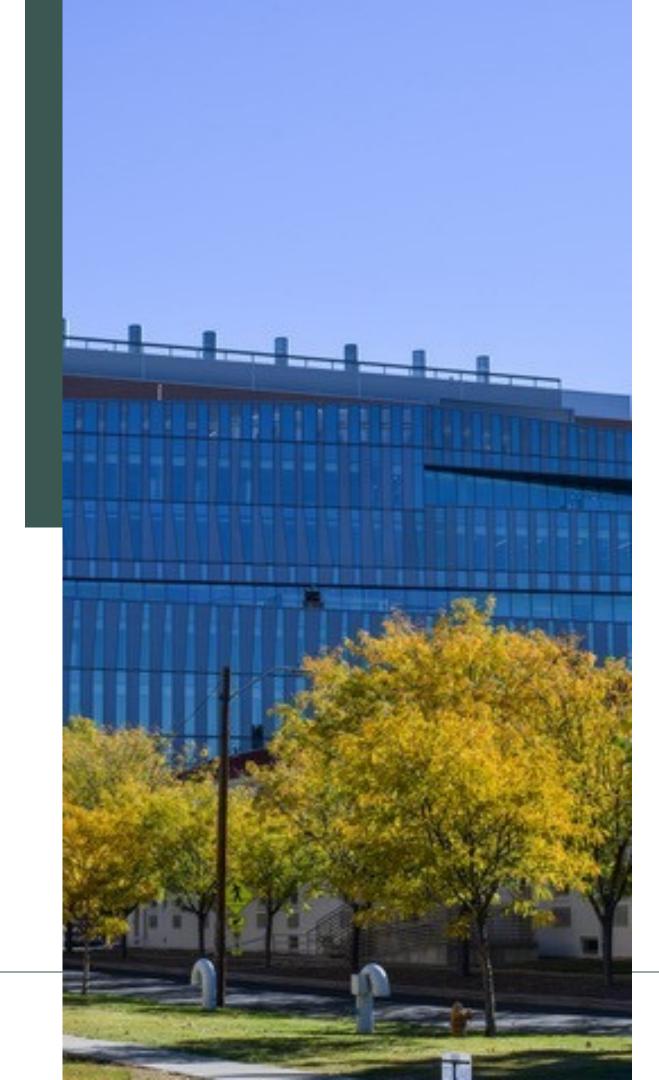
Programs & Resources

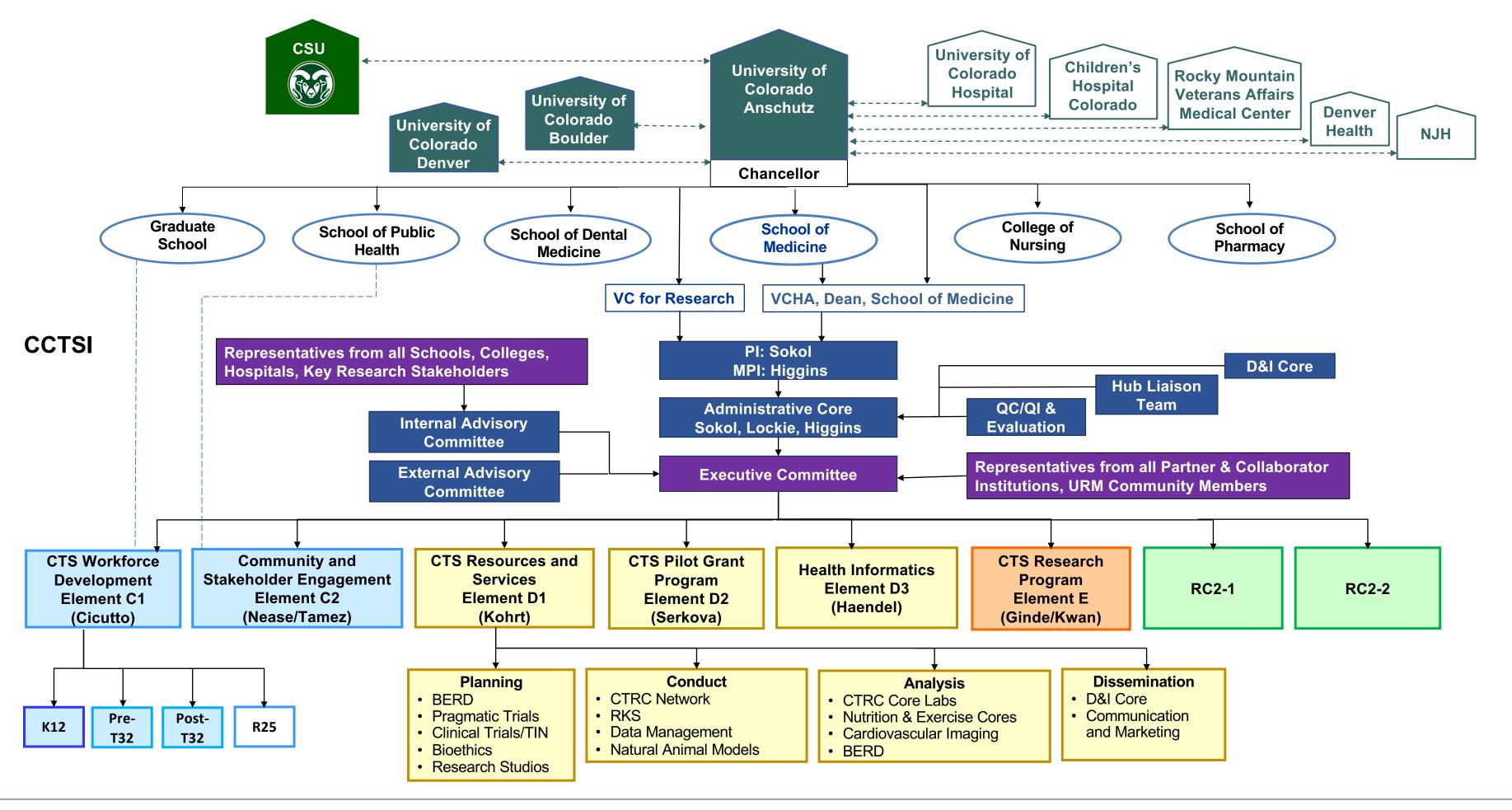
- 1. Education, Training and Career Development K12, T32 x 2, CLSC, etc.
- 2. Clinical Research Resources & Facilities CTRCs
- 3. Community Engagement & Health Equity <u>Immersion training, Bootcamp</u> Translation
- 4. Dissemination & Implementation Research tools, education, and consults
- 5. Team Science <u>Teaming Workshop Series</u>
- 6. Biostatistics, Epidemiology and Research Design (BERD) CIDA Tools, education, study and grant design, statistician assistance
- 7. Translational Informatics <u>REDCap, HDC, N3C, Colorado Profiles</u> to find mentors and collaborators at CU
- 8. Research Bioethics Consult service
- 9. Regulatory Knowledge and Support OnCore, Training, DSMB assistance
- 10. Pilot Grant Programs CO-Pilot, CU-CSU, CMH, CEHE, Translational Methods
- 11. Trial Innovation Network uses CTSA network to <u>facilitate multi-center trials</u>
- 12. Innovation and Entrepreneurship <u>iCorp</u> customer discovery training, education, tools
- 13. Early Life Exposures Program (ELEP) resources for <u>research in PN</u>

 <u>populations</u>













CCTSI Leadership and Diversity

Director & MPI: Ronald Sokol, MD

Director of Operations & MPI: Janine Higgins, PhD

DFA: Tim Lockie, MS, MBA

Associate Directors:

- Wendy Kohrt, PhD
- Melissa Haendel, PhD
- Alison Lakin, RN, LLB, LLM, PhD
- Donald Nease, MD, MPH & Montelle Tamez
- Natalie Serkova, PhD
- Lisa Cicutto, PhD, APN, RN
- Bethany Kwan, PhD & Adit Ginde, MD, MPH

DHH Deborah Rinehart, PhD

CSU: Susan VandeWoude, DVM & Matt Hickey, PhD

CU Boulder: Chris Desouza, PhD

VAMC: Jane Reusch, MD

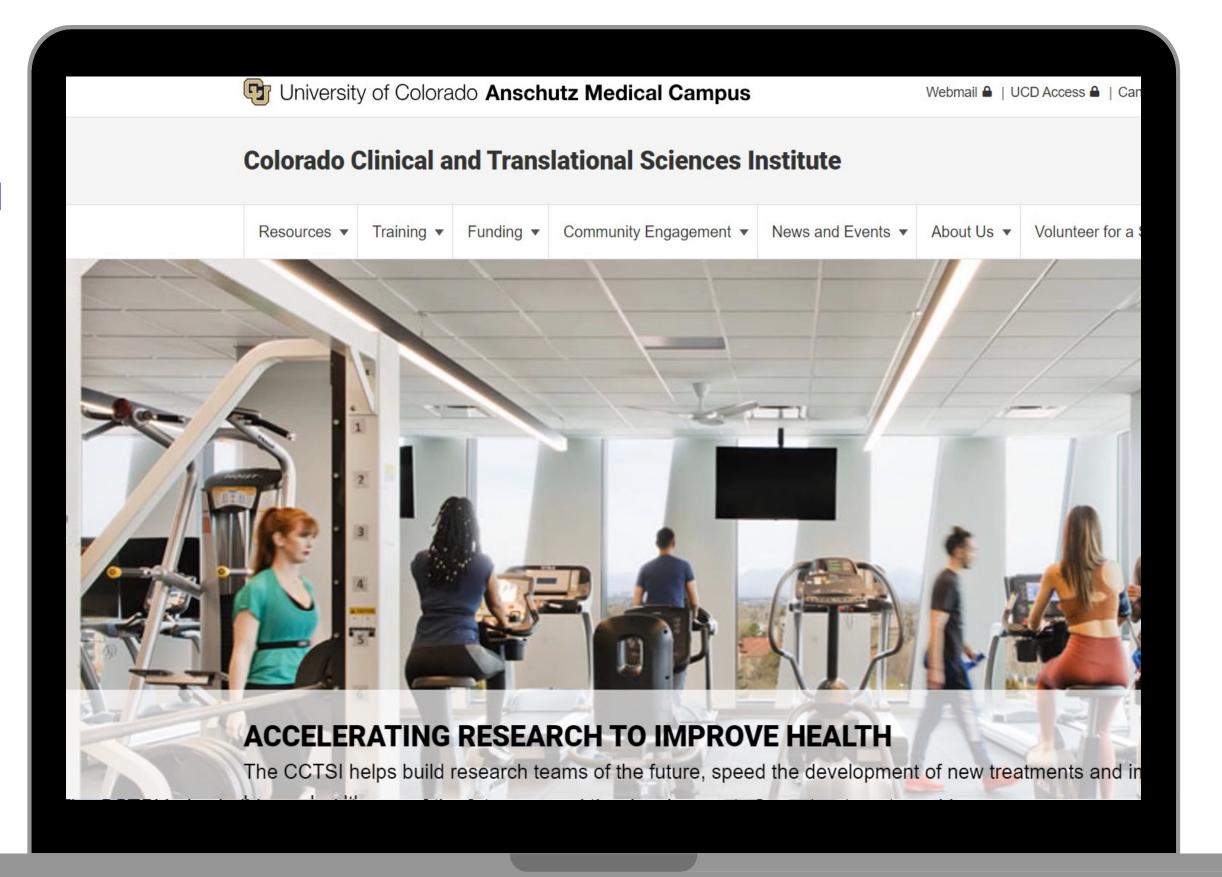
CCTSI Leadership:
50% Female
50% PhD or equivalent
Representation across Schools & Depts
SOM, CON, CSPH, Engineering

CCTSI Exec Committee:
52% Female 55% PhD or other
2 URM Community Representatives
Representation across AMC Schools
and Depts, and all Partner Institutions



Website

cctsi.cuanschutz.edu











Colorado Cili lical al la Trai Islational Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS



Diversity, Equity and Inclusion





Cite our Grant in all Publications!

Use Our New Grant Numbers UM1, **K12** and **T32**s



Resources and Services

CCTSI supports translational research by providing resources, integrating facilities and services. developing innovative research tools and catalyzing interdisciplinary research programs.



Funding

Each year, the CCTSI awards more than \$2 million in pilot grants, microgrants, and pre-doctoral and post-doctoral research scholar awards. You can find more information on each grant and how to apply



Education, Training and Career Development

The Education, Training and Career Development (ETCD) program provides clinical-translational scientists and trainees with knowledge, training and career skills



Clinical Translational Research Centers

The CTRC provides infrastructure, resources and dedicated space to conduct clinical research.

Cite our Grant

Become a Member

Join the CCTSI for free

Find a Researcher 12

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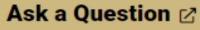
Found In Translation News from around the CCTSI

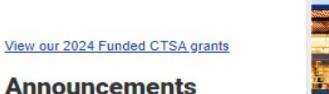
Director's Corner

12/20/2023

Read the latest news from the Colorado Clinical and Translational Sciences Institute (CCTSI)....

Read More





Researchers Examine Scientific Excellence and Integrity

Physicians, researchers and ethicists came together to discuss scientific excellence, integrity and equity at the annual CCTSI Research Ethics Conference....

Read More





Announcements

Leading and Teaming in Clinical **Translational Science**

Jan 18 - Apr 11, 2024 | 09:00 AM - 10:00

Add event to:

Outlook | ICal | Google Calendar

Save the Date - CCTSI Study Section (TM Pilot)

Apr 29, 2024 | 09:00 AM - 02:00 PM Add event to:

Outlook | ICal | Google Calendar

Save the Date - CCTSI Study Section (CMH-Pilot)

Apr 23, 2024 | 09:00 AM - 02:30 PM Add event to:

Outlook | ICal | Google Calendar

Save the Date - CCTSI Study Section (CO-Pilot)

Apr 15, 2024 | 09:00 AM - 05:00 PM dd event to:

Outloo | Cal | Google Calendar



Lieutenant Governor Visit Puts Long COVID in the Spotlight

12/1/2023

Health care providers, CCTSI researchers and patient advocates gathered for a roundtable discussion on Long COVID care with Colorado's Lt. Governor..



Conference Attracts Researchers Statewide

9/26/2023

Colorado Clinical and Translational Sciences Institute (CCTSI) gathered researchers to learn about Dissemination and Implementation science..

Read More



University of Colorado Anschutz Medical Campus Receives \$54 Million From NIH

NIH has granted \$54 million to the Colorado Clinical and Translational Sciences Institute (CCTSI) to turn discoveries into better health.

Read More

Colorado Clinical and **Translational Sciences** Institute (CCTSI)

CU Anschutz

Anschutz Health Sciences Building

1890 N Revere Ct Campus Box B141 Aurora, CO 80045

303-724-1222





NIH Funding Acknowledgement

CTSA Grant UM1 TR004399, K12 TR004412, T32 TR004367, T32 TR004366

Help

Contact the CCTSI

Become a Member

Language for your grant applications

Cite our grant

CCTSI Affiliated Institutions

University of Colorado Anschutz Medical Campus

University of Colorado Boulder

Colorado State University

University of Colorado Denver

CCTSI Affiliated

Institutions

University of Colorado Hospital

Children's Hospital Colorado

National Jewish Health

VA Eastern Colorado Health Care System

Denver Health

Kaiser Permanente Colorado





Always find most

Recent Grant Numbers

at bottom of each page

of CCTSI website, as well

as Language for your

Grant applications





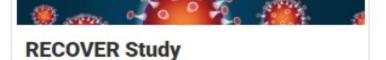
Colorado Clinical and Translational Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS



Diversity, Equity and Inclusion





mAb Colorado Project



Resources and Services

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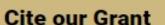
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Clinical Translational Research Centers

The CTRC provides infrastructure, resources and dedicated space to conduct clinical research.



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Ask a Question 🗹





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Membership is

required to use

services, training

programs, apply for

pilot grants, etc.



View our 2024 Funded CTSA grants





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Diversity, Equity and Inclusion







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The CTRC provides infrastructure, resources and dedicated space to conduct clinical research.

COLORADO Profiles

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Ask a Question 🗹





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CU Anschutz Medical Campus

CU Boulder

CU Colorado Springs

CU Denver







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COLORADO CLINICAL AND TRANSLATIONAL SCIENCES INSTITUTE

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Last Name Institution Search

Ronald J Sokol

ORCID (D) 0000-0001-7433-4095 (2)

Title Distinguished Professor

Institution University of Colorado Denver - Anschutz Medical
Campus

Department SOM-PEDS
Phone 720/777-3929
Email RONALD.SOKOL@CUANSCHUTZ.EDU



Sokol's Networks

Click the "See All" links for more information and interactive visualizations!

Concepts ?

Cholestasis

Biliary Atresia

Liver Diseases

Parenteral Nutrition

Liver

See all (1004) concept(s)

Co-Authors ②

Feldman, Amy

Ghosh, Swati

Shearn, Colin

Mack, Cara

Sundaram, Shikha

See all (80) people

Similar People ?

Krowka, Michael

Mack, Cara

Suchy, Frederick

N Coo all (60) poople

Narkewicz, Michael

Feldman, Amy

■ Biography

□ awards and honors				
1971	Phi Beta Kappa, University of Illinois, Urbana			
1972	Bronze Tablet, University of Illinois, Urbana			
1976	Alpha Omega Alpha, University of Chicago Pritzker School of Medicine			
1986	Basil O'Connor Award, March of Dimes			
1990	Mead Johnson Award for Nutritional Research, American Institute of Nutrition			
1994 - 2021	Best Doctors in America			
2002	America's Top Pediatricians, Consumers' Research Council of America			
2003	2003 Nutrition Award , American Academy of Pediatrics, Committee on			
	Nutrition			
2004	Hall of Honor, Cincinnati Pediatric Historical Society			
2006 - 2008	Top Doctors in Denver, 5280 Magazine			
2009	James E. Strain M.D. Award in Pediatrics, Children's Hospital Colorado Medical Staff,			
2009	Pediatric Liver Research Award, , Alpha-1 Kids and the Alpha-One Association			
2009	Harry Shwachman Award , North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN)			





Radial Social Cluster Output, Collaborators



Colorado PROFILES

COLORADO CLÍNICAL AND TRANSLATIONAL SCIENCES INSTITUTE										
Home	Search	Overview	Tutorials	FAQs	Contact Us					
Keywords		Ronald So				■ Back to Profile	Sokol's Networks Click the "See All" links for more information and			
Last Name		Co-Authors are people in Profiles who have published together.					interactive visualizations!			
		List Radia	al Cluster	Timeline	Details		Concepts ②			
Institution		This cluster graph shows the co-authors (green circles) and top co-authors of co-authors (blue circles) of Ronald Sokol (red circle). The size of a circle is proportional to the number of publications that author has. The					<u>Cholestasis</u>			
	~						Biliary Atresia			
Search		thickness of a line connecting two authors' names is proportional to the number of publications that they share. Options for customizing this network view are listed below the graph.					<u>Liver Diseases</u>			
							Parenteral Nutrition			
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							Feldman, Amy			
Tutorials			Cotter 4	elkind-Gerson J ler K	Boster Higran Pjigham D	Luo Y	Ghosh, Swati			
<u>FAQs</u>			Kobak G	Karrer F	Van Howe C	n A	Shearn, Colin			
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please con	lact us.	Mould-Mi		Krowka M	van B Yeager M Dzieci Hansen K	atkowska M	► See all (60) people			
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Click and drag the name of any author to adjust the clusters. Shift-click and drag the name of any author to move them and pin it to a fixed location. Click again to unlock the position. Ctrl-click a name to view that person's network of co-authors. Alt-click a name to view that person's full profile. Please note that it might take several minutes for the clusters in this graph to form, and each time you view the page the graph might look slightly different.

<u>Jaime</u>

Liu, Edwin

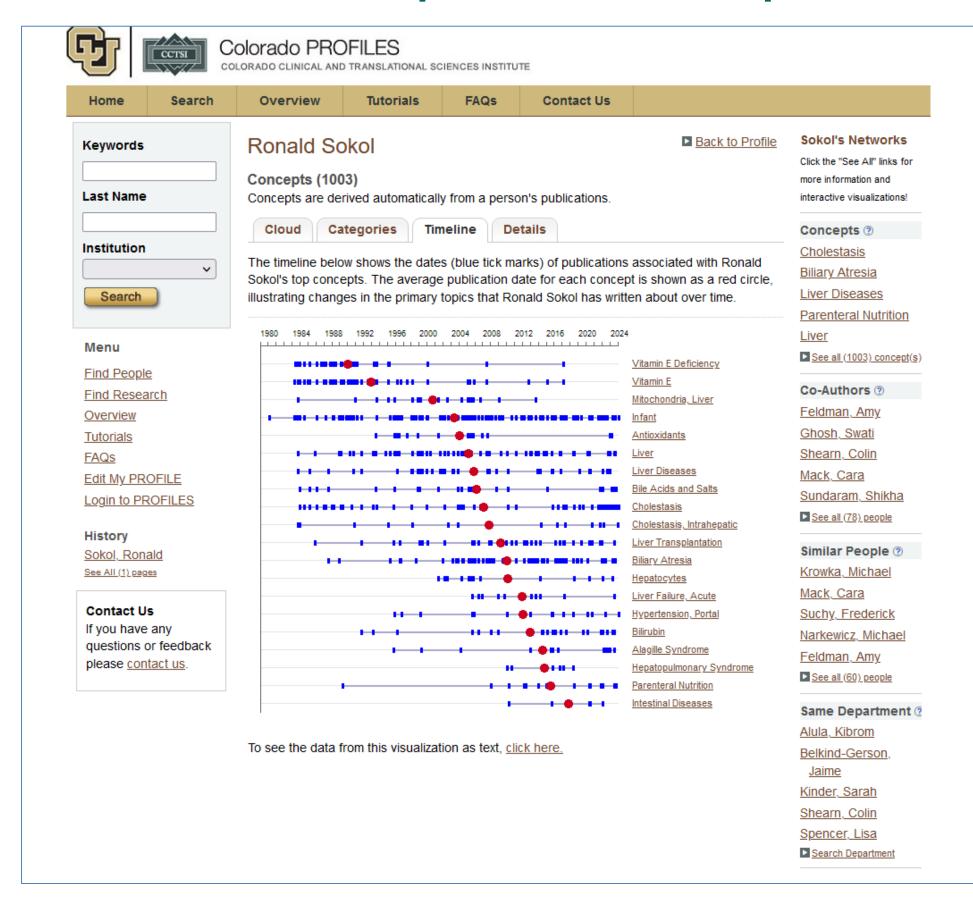
Kinder, Sarah

Marable, Jennifer

Walker, Thomas

Search Department

Timeline Output, Research Topic







Clinical Translational Research Centers

- Adult-AHSB, NJH, CU-B; Pediatric-CHCO
 - Inpatient and outpatient facilities no charge for space (except industry studies)
 - Research Nursing inpatient, outpatient, mobile teams (NICU, PICU, ED, etc.)
 - Nutrition metabolic kitchen, whole room calorimeter and body composition
 - Adult Vascular Ultrasonography, ECHO, Liver Elastography & Exercise Physiology
 - Core laboratories & specimen processing
 - Microgrants to Jr. Investigators (\$10,000/yr. x 3 yr)
- Subsidized pricing for investigator-initiated studies
- Example: RECOVER tier 2 and 3 investigations (DHH enrollees)

300 Studies and >20,000 visits per year







https://cctsi.cuanschutz.edu/resources/ctrc/services#ft-core-lab-

services-1

WICTOGrants

CTRC Scheduler

Join Our Team 12

CHCO Associate Medical Director job description

Join Our Team [₹

UCH Associate Medical Director job description

CTRC Contacts

UCH Adult IP Unit 720-848-7907

UCH Adult OP Unit

303-724-1225 or 303-724-1226

CHCO OP Unit

720-777-2581

UCH Adult Nursing Manager

720-848-7901 or 303-724-4402

CHCO Nursing Manager

720-777-4700

UCH Adult CTRC Core Lab

303-724-4093

CHCO CTRC Core Lab

720-777-8209

Nutrition Services

303-724-1219

Cardiovaecular Riolmaning



Nursing Services



Core Lab Services



Nutrition Services



Cardiovascular Biolmaging



Composition Scheduler

Core Lab Services

CTRC Core Laboratory Services support <u>IRB-approved protocols</u> with a wide range of analytical testing including chemical, hormone, metabolite, and immunological assays. CTRC Core Laboratories are CAP- and CLIA-accredited and provide trained personnel, reagents, equipment, and QC capabilities to conduct assays for research studies.

CAP Certification CLIA Accreditation

All services are provided as fee-for-service resources.

Adult CTRC Core Lab

<u>Chemical and immunological assays</u>, including peptide/hormone measures by HPLC, RIA, ELISA, Chemiluminescence, and spectrophotometry; Processing of blood, urine and saliva.

Request access to obtain your Adult CTRC assay results.

Adult CTRC Lab Hours: Monday and Friday, 8:00 am - 4:30 pm

Children's Hospital Colorado CTRC Core Lab

<u>Chemical and immunological assays</u> including cytokine and fat soluble vitamin assays, UPLC, HPLC, ELISA, Luminex, RIA, Nephelometry, chemiluminescence, and spectrophotometry.

Processing of sputum, tracheal aspirates, and BAL fluids

CHCO CTRC Lab Hours: Monday - Friday, 8:00 am - 4:30 pm

National Jewish Health CTRC Inflammation & Immunology Core Lab

- Analysis of human inflammatory and immunologic response
- Core Lab assays and pricing







Authorization Request to access data

Pilot Grant Awards

- 5 Pilot Grant programs CO-Pilot, CMH, Community
 Engagement, New Methods, CU-CSU Collaboration Award
- ~\$900,000 available annually
- \$25,000 for Community Engagement Pilots
- \$30,000 for Translational Methods
- \$40,000 for CO-Pilot and CMH mentored, junior, and early career diversity pilots
- \$60,000 for CU-SCU collaborative pilots



Community Engagement & Health Equity

- Community Research Liaison (CRL) program
- Colorado Immersion Training in Community Engagement (CIT)
- Research Readiness Certification for Community Based Organizations
- Community Engagement Consults
- CE Pilot Grant Program
- Boot Camp Translation for Patient-Centered Outcomes: Facilitator Training
- Introduction to CBPR for Community-Academic Partnerships







Translational Informatics

REDCap – operated for entire campus by CCTSI

>9,000 users, >6,000 active projects

CCTSI supports Denver Health REDCap

- Health Data Compass enterprise-wide research data warehouse
- Data Delivery & Cohort Discovery TrinetX, Compass, ACT, N3C





Education, Training and Career Development

- 1. T32 Pre- and Post-doctoral training programs
- 2. Clinical Sciences Graduate Program (Masters, PhD)
- 3. K12 Research Scholar program, up to 3 yrs. of support Ellen Burnham, MD
- 4. Colorado Mentor (CO-Mentor) Training Program Greg Austin MD
- 5. Leading and Teaming and for Early Career Researchers Jeni Cross, PhD
- 6. Support for Clinical Faculty Scholars Program Anne Libby, PhD
- 7. Clinical Research Training and Education Program (CRSC) Coordinators, CRSP
- 8. Summer Undergraduate Minority Mentoring in Translational Science (SUMMiT) (n>20)
- 9. Others



Lisa Cicutto, PhD, APN, RN





Pre-K, Pre-R, Pre-F Grant Review Programs

- Assist junior faculty and their mentors write successful career development and first R01 awards
- Mock grant reviews: 3 times a year
 - Applicants and mentors attend
 - Format: reviewers and then panel discusses, followed by Q&A
 - Full written reviews
- Helpful materials on website relevant to K applicants







Paul Maclean PhD



Maggie Wierman MD







Research Studio Program

- Expert Panel to provide targeted advice about research project, grant application, idea generation, etc.
- **Studio sessions** are virtual 90 Minutes
- Investigator presents brief summary (10-15 minutes)
- Focused discussions with experts for 3 or 4 predetermined questions from the investigator focus on problem-solving and the development of helpful solutions (60-70 minutes)
- Moderator and panelists provide summarized comments (10-15 minutes)
- 2019-2020 participants believed the experience contributed >\$2M in subsequent grant funding



Jane Reusch MD



Alan Prochazka MD





I-Corps@CCTSI

- Short course for teams of faculty, staff or students with a biomedical discovery or health innovation idea.
- Uses customer discovery methods used for startups for academic researchers
- Test the business model hypotheses for a technology or idea



Cathy Bodine, PhD

Communicating Your Science to the Public

Offered 3x/yr for up to 30 per session





Aimee Bernard, PhD Wendy Meyer, MA

1

Workshop #1

Effectively communicating your message to the public

2

Workshop #2

Sharing your message effectively and giving/receiving feedback

3

Workshop #3

Expanding your media horizons





Trial Innovation Network (TIN)

Adit Ginde, MD, MPH



Adit Ginde, MD, MPH

National CTSA
Consortium - Trial
Innovation Centers to
facilitate design and
conduct of Multi-Site
(NIH) Clinical Trials

Provides local and national support for the entire study lifespan

- Study design, central IRBs, study operations, data collection and analysis, recruitment and retention strategies, etc.

Investigators can request a single service (e.g., single IRB) or complete study life cycle assistance



Regulatory Knowledge and Support (RKS)

Clinical Research Operations and Services

- IND/IDE Office
- Recruitment support program
- Workforce development support for clinical research professionals
- Education and training courses
- Decentralized/Virtual clinical trials support
- Service center support for clinical research operations



Clinical Research Administration

- OnCore support CTMS, biobanking, eReg and EDC
- Human subject research portal Scientific review (SARC), perinatal facilitation review committee and Investigation Product Review Committee (IPRC)
- CT.gov support
- Auditing and quality improvement







Questions





303 - 724 - 1222



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