CCTSI and New Faculty Town Hall

Ronald J. Sokol, MD
Director and P.I. of CCTSI
Assistant Vice Chancellor of Clinical and Translational Science
University of Colorado – Anschutz Medical Campus
CTSA Program

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

• Currently, 60 funded Hubs, many of which include multiple universities and hospitals.

• CTSAs provide many local resources, facilities, research personnel, pilot funding, regulatory and informatics support, research units and education & training programs

• Grants originate from NCATS at NIH
Colorado Clinical & Translational Sciences Institute

- CCTSI is the Colorado CTSA Hub
- Created in 2008 and funded for 5 years by **$76 million** NIH grant
- Substantial institutional support (funding)
- Supports all faculty, post-docs, trainees involved in clinical or translational research at 3 universities and 6 hospital partners
- “Disease – agnostic”
- Refunded in 2013 - **$52 million** and in 2018 for **$47 million**
CCTSI Vision

Accelerate and catalyze the translation of innovative science into improved health and patient care
CCTSI 3.0 Mission

- **Catalyze** and enhance scientific discovery, innovation, dissemination and translation across the lifespan
- **Educate** and sustain a resilient, innovative and diverse translational science workforce
- Promote and ensure an efficient, safe, collaborative and integrated research environment
- **Engage stakeholders and communities** across the entire translational spectrum
Spectrum of Translational Research

**Clinical Translational Research Spectrum**

- **T0.5**: Basic Scientific Discovery
- **T1**: Preclinical Insights
- **T2**: Clinical Insights
- **T3**: Implications for Practice
- **T4**: Implications for Population Health

- Translation to Natural Animal Models
- Translation to Humans
- Translation to Patients
- Translation to Practice
- Translation to Population

**Bi-Directional Collaboration Team Science**
CCTSI Leadership

**Director:** Ronald Sokol, MD  **DFA:** Tim Lockie, MS, MBA

**Director of Operations:** Janine Higgins, PhD

**Associate Directors:**
- Wendy Kohrt, PhD
- Tell Bennet MD, MS
- Alison Lakin RN, JD
- Donald Nease, MD, MPH
- Thomas Campbell, MD
- Thomas Flaig, MD
ACCELERATING RESEARCH TO IMPROVE HEALTH

The CCTSI helps build research teams of the future, speed the development of new treatments and improve human health.
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
Colorado PROFILES

Mapping Our Molecules
Jun 25, 2019, 12:00 AM by Wendy Meyer
Why know that exercise is good for us, Professor Wendy Kohrt aims to find out why. She is leading an exercise study called MoTiPAC to develop a so-called molecular map of tissue-specific and circulating signals produced by physical activity.

Full story »
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Full story
Search Colorado PROFILES

The “Colorado PROFILES” search engine for biomedical research expertise and networking provides tools to help investigators and students find experts, potential collaborators or mentors, and to view past and present research networking of our investigators.

Find people by research topic

Keywords

Search

Find people by name/organization

Last Name

First Name

Institution

Department

Faculty Type

Search

Contact Us
If you have any questions or feedback please contact us.

Live Updates
102117 Publications
8309 Total Profiles

Jonathan Harris
September 30, 2019

added a publication from: Applied and environmental biology
Search for Investigators by Key Words
Search for Investigators by Key Words
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Why</th>
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<tbody>
<tr>
<td>Cara Lynn Mack</td>
<td>University of Colorado Denver - Anschutz Medical Campus</td>
<td>Why?</td>
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<tr>
<td>Ronald J Sokol</td>
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<td>Frederick M Karrer</td>
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<td>Amy G. Feldman</td>
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Connection

Search Results to Cara Lynn Mack

This is a "connection" page, showing the details of why an item matched the keywords from your search.

One or more keywords matched the following items that are connected to Mack, Cara:

<table>
<thead>
<tr>
<th>Item Type</th>
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<tbody>
<tr>
<td>Academic Article</td>
<td>Coordinate expression of regulatory genes differentiates embryonic and perinatal forms of biliary atresia.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Biliary atresia is associated with CD4+ Th1 cell-mediated portal tract inflammation.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Activated CD4+ Th1 effector cells and activated macrophages participate in bile duct injury in murine biliary atresia.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Cellular and humoral autoimmunity directed at bile duct epithelia in murine biliary atresia.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Oligoclonal expansions of CD4+ and CD8+ T-cells in the target organ of patients with biliary atresia.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>The pathogenesis of biliary atresia: evidence for a virus-induced autoimmune disease.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Conjugated hyperbilirubinemia in children.</td>
</tr>
<tr>
<td>Academic Article</td>
<td>Biliary atresia: cellular dynamics and immune dysregulation.</td>
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Search Colorado Profiles

The "Colorado PROFILES" search engine for biomedical research expertise and networking provides tools to help investigators and students find experts, potential collaborators or mentors, and to view past and present research networking of our investigators.

Choose from:
- Find People
- Find Research

Find People by research topic

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Search

Search for Investigators by Name, Institution, Department, or Faculty Type
13 CCTSI Major Functions

- Translational Workforce Development (13 programs)
- Clinical Research Units (CTRCs)
- Community Engagement & Research
- Biostatistics, Epidemiology and Research Design
- Translational Informatics (including REDCap)
- Research Bioethics
- Regulatory Knowledge and Support
- Pilot Grants and New Methods grants (> 900K per yr.)
- Pragmatic Trials / Dissemination and Implementation
- Research Incubator Studios
- Innovation Ecosystem
- Early Life Exposures
- Evaluation & Tracking and QPIP

Innovation Corps (I-Corps™) Training
Trial Innovation Network Hub Liaison Team
Study One-Stop Support (SOS)
Science of Team Science
Clinical Translational Research Centers (CTRCs)

- UCH, CHCO, NJH, CU-B and Perinatal
  - Inpatient and outpatient facilities – **no charge for space**
  - Research **Nursing** – inpatient, outpatient, mobile teams (NICU, PICU, ED, etc.)
  - Bio-nutrition, metabolic kitchen, whole room calorimeter and body composition
  - Vascular Ultrasonography and ECHO
  - Core laboratories & specimen processing
  - **Microgrants** to Jr. Investigators ($10,000/yr. x 3)
  - SARC review of all protocols
  - **200** unique PI’s conduct research on > **500 CTRC** Protocols each year (10,000-15,000 visits/yr) – **about 150 protocols at CHCO**
Pilot Grant Awards

• **5 Pilot Grant programs** – CO-Pilot, CMH, Community Engagement, New Methods, CU-CSU Collaboration Award

• **$900,000 available**

• **$20,000, 30,000, $60,000 levels**
  – Letter of Intent in August
  – Deadline September (end)
  – Peer Review in November- December
  – Start-up in January-April
Translational Informatics

- **REDCap** – operated for entire campus by CCTSI – 9,000 users, 6,000 active projects
- **Health Data Compass** – enterprise wide research data warehouse – Michael Kahn, MD, PhD Previous Director
- Colorado **PROFILES**
- Data Delivery – TrinetX, Compass, ACT
- Multiple education courses and programs
- I-Labs installation and management
Education, Training and Career Development

1. Summer Undergraduate Minority Mentoring in Translational Science (SUMMiT) (n=14)

2. TL1 (T32) Pre- and Post-doctoral PhD training program

3. Clinical Sciences Graduate Program (Masters, PhD)

4. KL2 (K12) Research Scholar program - up to 3 yrs. of support

5. Support for Clinical Faculty Scholars Program

6. Clinical Research Education Forum for Investigators and Study Coordinators
Education, Training and Career Development

8. Leadership in Innovative Team Science (LITeS), Emerging LITeS, LITeS Junior, LITeS Team

9. Colorado Mentor (CO-Mentor) Training Program

10. K-to-R Transition Grant Review

11. Pre-K Award Assistance and Grant Review

12. Research Studios

13. Innovation Corps @ CCTSI
Pre-K Grant Review Program

• Help junior faculty and their mentors write successful career development awards
  – 5 criteria (candidate, career development, mentors, environment, and research plan)

• Mock grant reviews: 3 times a year
  – Applicants and mentors attend
  – K24 awardees, K12 directors, biostats, other K awardees are reviewers
  – Format: reviewers and then panel discusses, followed by Q&A

• Lecture series relevant to K applicants
K to R Transition Program

• Pre-grant submission mock grant review process
• Faculty with K-level awards who are submitting first R-level grant award or any R-level grant submission
• Submit grant proposal for internal review about 4-6 weeks before submission to funding agency
  – Deadline for Letter of Intent
• Mock study section and written reviews
• PI and mentor - attend mock study section
• 3 cycles – NIH grant application deadlines
• Maggie Wierman, MD   303-724-3952
Research Studio Process

- 5-6 person Expert Panel for T1-T2 or T3-T4 research topics
- Studio sessions - Face to Face (over Lunch)
  - 90 Minutes
    - Investigator presents brief summary (10-15 minutes)
    - Focused discussion 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)
Research Studio Process

- Web-based Consult Request – CCTSI website
- Studio Consult Categories:
  - hypothesis generation
  - study design – specific aims
  - grant review
  - implementation
  - analysis and interpretation
  - manuscript review
  - translation
Research Studio Results

• New: 1-2 all day sessions per month (4-5 Studios per session)
• Excellent feedback and usefulness
• Contact:
  
  Dan Holtrop, MA  
  Studio Program Manager  
  Daniel.Holtrop@cuanschutz.edu

"Very beneficial service and significantly improved the quality of my research project"
- Investigator
Innovation & Entrepreneurship Ecosystem at AMC

- Technology Transfer Office
- Accelerating
- Opportunity Identification
- Fundamentals

- Idea Generation and Team Formation
- Entrepreneurial Education Curriculum and Culture
- Vetting
- Incubating
- Pitch Competitions
- AMC Accelerator
- Launch

A virtuous cycle of innovation and entrepreneurship

I-Corps @NCATS Team Training Pilot Program
Community Engagement & Research Programs

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

• National CTSA Consortium effort to facilitate conduct of Multi-Site (NIH) Clinical Trials

• Provide local and national support for the entire study lifespan
  – TICs - study design, central IRBs, study operations, data collection and analysis
  – RIC - assist with recruitment and retention strategies
  – TIN Hub Liaison Team – Local linkage to national TIN

• Investigators can request a single service or complete study life cycle assistance from TIN
Trial Innovation Network Hub Liaison Team – Addressing Life Cycle of Studies

- **Director**: Tom Flaig, MD, UCH CCRO
- **Medical Directors**: Tom Campbell, MD (UCH) and Jesse Davidson, MD (CHCO)
- **Project Manager** – Ben Echelier
- **Contracting Lead** – Amanda Peng
- **Central IRB Lead** – Christy Williamson
- **Recruitment (Participants) Lead** – Barbara Hammack
- **Navigator**: Cynthia Sneddon
- **Local Website, workflow, educational materials, etc.**
CCTSI is here to support you!

• [https://cctsi.cuanschutz.edu](https://cctsi.cuanschutz.edu) or google CCTSI
• Become a Member (quick, free, powerful)
• Become familiar with the website
• Use Profiles often
QUESTIONS?