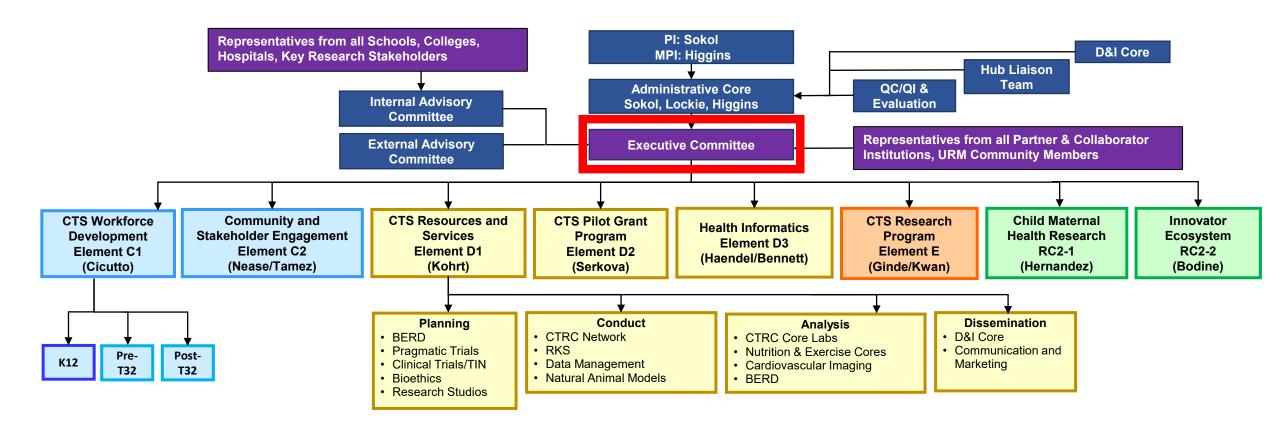
## The Power of Partnership

# Colorado State University & the annual CU-CSU Summit

Matt Hickey, Ph.D.

Associate Dean for Research

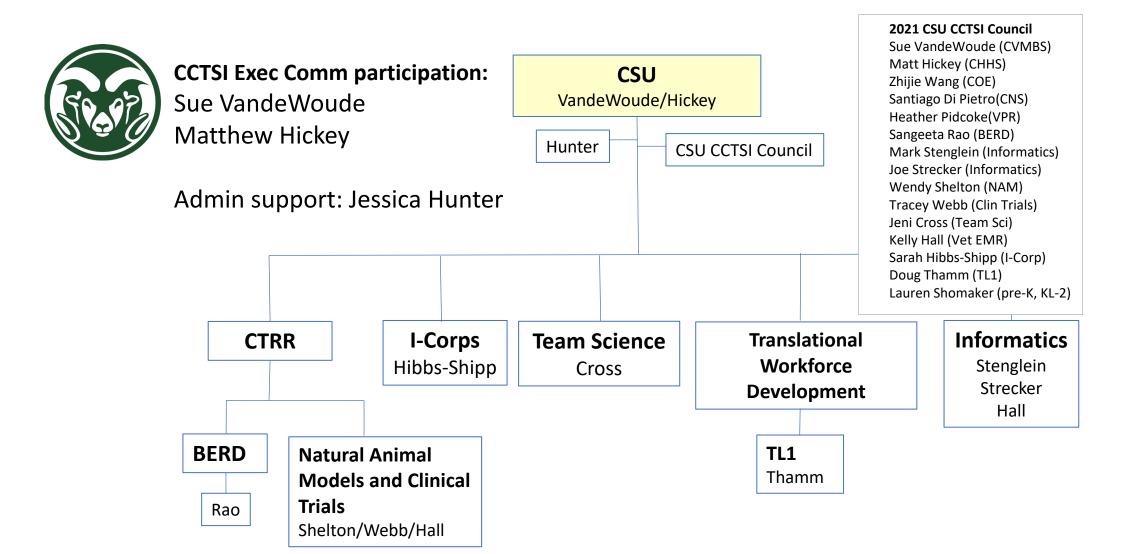
College of Health and Human Sciences



## Colorado State University



- Land grant institution for CO
- Founded 1870
- Ranks 2<sup>nd</sup> in research funding among public institutions w/out a medical school (NSF)
- \$456M annual research expenditures in FY22
- 8 colleges, 5 with significant CCTSI interactions
  - CVMBS, CHHS, COE, CNS, CLA
  - 568 CCTSI members (18% increase in 2022)





### Governance

#### LOCAL

- Subaward PI and admin coordinator in CSU OHI
- Approximately monthly meetings of core directors, biostats/ bioinformatics, Associate Deans for Research in participating colleges
- Website <a href="https://www.research.colostate.edu/cctsi/">https://www.research.colostate.edu/cctsi/</a>

#### **PROGRAM**

- EAC representation (VandeWoude, Hickey\*)
- Program implementation (Cross, Shomaker, Thamm)
- Co-Pilot (VandeWoude)
- Bioinformatics/Biostatistics (Stenglein, Rao)

\*Transition of co-leadership





### **Annual CU-CSU Summit**

2013: Introduction to CCTSI

**2014:** Obesity/ Diabetes (a.m.); Cardiovascular (afternoon)

**2015:** Community Engagement/ Clinical Trials

**2016:** Regenerative Medicine/ Stem Cell Biology (a.m.)

Precision/ Personalized Medicine (afternoon)

2017: Microbiome

**2018:** Lifespan Research

2019: Al and Health Care

2020: COVID-19 Response

2021: Evolving Impacts of COVID-19: Research Advances in Colorado and Beyond

2022: Research in Health Equity and Social Determinants (6 speakers from CSU)

2023: Preliminary aim: D&I focus, seeking to host at CSU Spur campus with CSU Extension

## **CU-CSU Summit-2022**

#### **CSU Contributions**

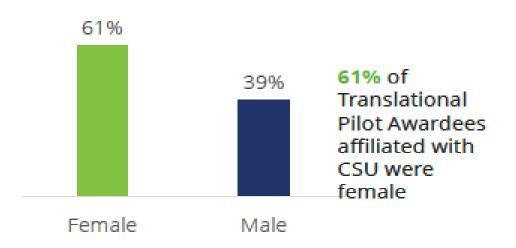
- Engaged Approaches to Advance Environmental Health Trials in Resource-Poor LMIC Settings. Maggie Clark, PhD
- Strengthening Community-Academic Partnerships through Radical Relationship, Chrissy Chard, PhD & Deborah Fard (community partner)
- Campus Resources for Research in Social Determinants of Health and Diversity and Inclusion. Sonali Diddi, Ph.D., Engaged Faculty Lead, Office of Engagement and Extension
- Pracademic Work as Pathway to Policy Change. Molly Gutilla, DrPH
- One Health in Veterinary Practice--Engaging Students in Addressing Gaps in Accessible Care. Danielle Frey, DVM
- Access to Care: Structural Racism in Veterinary Medicine. Jon Geller, DVM

# CSU-CU/AMC Collaborative CO-Pilot Award

- \$30K CSU + \$30K CU match for collaborative projects (non CCTSI dollars)
- Application, review, award parallel to other co-Pilot awards
  - 19 CO-Pilot projects funded since 2014
- CCTSI members eligible for other award categories



## **CSU Pilot Award Highlights**



#### Pilot Award Category Affiliation:

CO- Pilot	Translational Methods	Community Engagement	COVID -19	CU-CSU Collab- oration
33%	18%	29%	2%	18%



- Translational Pilot Awards (2010-2021)
  - 51 grants to 43 CSU-affiliated researchers
  - ROI > 13
    - \$1.3m in grants, \$18.5m in follow-on funding
- UG3/UH3 Award Pending, Haendel, PI; Zersen, CSU-co-I

# CSU Natural Animal Models Outcomes/ WIP

- Clinical Trials research space and equipment progress
- Clinical Review Board (Veterinary IRB): continued policy development and growth, reviewed >110 protocols
- Development/enhancement of website content: CSU CCTSI, CSU CRB, CSU One Health Institute, COHA
- REDCap adoption for veterinary clinical trials



# CSU Natural Animal Models Common Data Models

- UCD symposium on Comparative Animal Health Datasets and ontologies, May, 2022
- UG3/UH3 application pending review: "Realizing precision medicine and translational science through integration of veterinary and human health data", Haendel PI; UC Denver, CSU (K. Zersen, J. Strecker, K. Hall, T. Webb), Tufts, UC Davis
- Ongoing "One Health Datasets" Activities



### CSU Natural Animal Models Core: T0.5

Innovative pathway for translating pre-clinical discoveries into naturally occurring animal models (companion and domestic animals) to accelerate the discovery pipeline



Tracy Webb, DVM, PhD, CSU Designee

Wendy Shelton, DVM, MS, liaison



Kelly Hall-Wilke, DVM, MS, Critical Care/Trauma; Veterinary Trauma Database and Translational Trauma Working Group



## CTSA One Health Alliance (COHA)

Collaboration among ~15 veterinary colleges with CTSA medical partners with four focus areas:

- Naturally occurring models of human disease
- Biorepository/biobanking
- Clinician scientist education
- Communication and collaboration

CSU leadership on COHA advocacy committee supports federal OH legislation

COHA pilot project award supports communication and collaboration activities

And interprofessional education between DVM and MD awards





## **NASEM Monograph**

- NAS workshop, Dec 2021
- Financial support from NCI, NIA,
   NIEHS and EPA
- ...and UC Anschutz Cancer Center,
   CSU and Morris Animal Foundation
- 80 in-person and 1500 virtual participants across the US and world (10 from CSU, UCD-AMC)
- CSU: Shelton, Page, Farland, Ryan, Webb, Avery, VandeWoude, Hoover; UCD-AMC: Thessen, DiGregori



### **CSU CCTSI Vision**

- Grow CSU contributions to CCTSI
  - Embed CCTSI in new faculty onboarding (piloting in CHHS now)
  - Increase CSU participation at summit (more than just attendance)
  - Increase CSU participation at CCTSI Ethics Conference
  - Increase CSU submissions to CCTSI pilots grants programs
  - Expand CSU involvement in Pre-H and K-R programs
- Build/ expand connections to CSU Centers/ faculty
  - Translational Medicine Institute
  - Center for Healthy Aging
  - School of Biomedical Engineering