TTUS: Strategic report on research collaborations and growth

2/23/2023
• Create a community of researchers
• Foster innovative collaboration
• Encourage external proposal submission
Researchers from ASU and MSU met on November 11, 2022 at the Abilene campus of the TTHSC.

A total of fifteen research faculty representing several programs attended.

Discussions focused on research interests, funding sources, and active projects.

Discussions also included teaching methods and materials.

After the meeting, communication about sharing resources has continued, (e.g. Geology).

### Disciplines represented at 11/11 meeting

#### Angelo State University
- Geosciences
- History
- Mathematics
- Physics

#### Midwestern State University
- Chemistry
- Computer science
- Engineering
- Geosciences
- History
- Mathematics
FUTURE PLANS

• Additional meetings between ASU and MSU are planned.
• These meetings need to be at each other’s respective campuses in order to examine facilities, equipment, and collections.
• Mid-April is the target time period for the next meeting (at ASU).
• We will review collaboration opportunities over the summer.
• We believe that we are still on track for the submission of at least one collaborative research proposal by spring 2024.
• September meeting (at MSU) with a plan to meet with an NSF program officer.
THE IMPACT OF TOGETHERNESS

Inter-institutional collaboration involving TTU and TTUHSC.
FROM HERE, IT'S POSSIBLE.
COLLABORATIONS FROM

Joint Research Funding for: cancer, addiction studies, pain therapy, aging-related diseases, autoimmune disorders, genetics, drug interactions, speech therapy, medical devices.


522 Joint publications

108 Joint grant proposals

57 Joint grant awards

2018-2023
INSTITUTE FOR ONE HEALTH INNOVATION

Vision: Establish a One-Health Innovation initiative that substantially enhances TTU and TTUHSC funding from federal sources (i.e., NIH).
The One Health Innovation research umbrella allows us to employ all TTU & TTUHSC research strengths in human and animal health research, public health, veterinary science, biomedical engineering, and agricultural research to address critical regional and national needs in health-related research.
OUR FOCUS:

Develop plans for a common research and academic building (~120,000 square feet) holding between 30 and 40 TTU and TTUHSC lead investigators.

Researchers will work within three or four common research foci under the One-Health Innovation theme.

Space will include core facilities and shared equipment to support all researchers.

Governance of the Institute, management of space and infrastructure, and cost of facilities maintenance will be equally shared among the institutions.
PROGRESS UPDATE

Three inter-institutional teams have been established: Governance, Research, and Curriculum.
GOVERNANCE TEAM:

- Defining structure and reporting relationship of OHI to TTU & TTUHSC
- Defining decision-making processes and strategies for use of budget
- Finalizing processes for TTU/TTUHSC joint hires
- Developing subsequent LAR to the State
RESEARCH TEAM:

• Defining broad research themes,
• Analyzing existing research capacity and identifying gaps that would give us a competitive edge
• Creating a needs list of instrumentation, facilities, and personnel
CURRICULUM TEAM:

- Putting together a plan for the development of One Health Innovation curricula,
- Outlining accreditation requirements
- Developing a timeline and cost estimates
WHAT HAPPENS NOW?

Submission of $4.9M 2023 LAR planning request. (COMPLETE)

Late Summer through Fall 2023 consultant visits to refine research and curricular foci.

Fall 2023 recruitment of preliminary design contractor.

Summer 2023 meetings to refine initial research and curricular foci.

Late Summer/Early Fall 2023 initiate search for initial IOHI leader.

October 2024 complete comprehensive IOHI LAR request for legislature.
THANK YOU

JOSEPH A. HEPPERT, Ph.D.
TTU Vice President for Research and Innovation

LANCE R. McMAHON, Ph.D.
TTUHSC Senior Vice President for Research and Innovation
COMPREHENSIVE

Medicine (2)
Nursing (2)
Biomedical Sciences (2)
Dental Medicine
Population and Public Health
Health Professions
Pharmacy
Veterinary Medicine

HEALTH SCIENCES
COLLABORATION: RESEARCH INFRASTRUCTURE

- Clinical & Translational Research
- Human Subjects Protections
- Institutional Review Board Alignment
- Tissue Repository
TTUHSC and TTUHSC El Paso Offices of Research
5 Year Strategic Plan

- Engage in clinical research/trials
- Clinician scientists hired
- Center for Community Outreach Research Center of Emphasis
- Clinicians and PhD’s engaged in research and scholarly activity
- Retain top research faculty
Engage in clinical research/trials

**Year 1**

Clinical & Translational Science Awards: sign; establish goals & objectives

Establish Clinical Research Office

Identify funding for clinical research administrators

Streamline Institutional Review Board & contract processes

**Year 3**

Clinical & Translational Science Awards activity begins
TTUHSC and TTUHSC El Paso Offices of Research
5 Year Strategic Plan

Year 1

Joint appointments

TTUHSCs strategically partner to recruit clinician scientists:
focus on mission priorities

Startup packages: chairs, deans & research offices share costs

Year 3

Establish onboarding hiring practices for clinician scientists
TTUHSC and TTUHSC El Paso Offices of Research  
5 Year Strategic Plan

Year 1

Collaborative seminar series

Identify NIH funding for community outreach

Community Outreach Center of Emphasis: develop shared business plans

Joint hires

Year 3

Onboard jointly appointed NIH funded community researchers

Center for Community Outreach Research Center of Emphasis
TTUHSC and TTUHSC El Paso Offices of Research
5 Year Strategic Plan

Year 1
Increase jointly developed NIH grant submissions by 3
Collaborative educational programs for faculty: grant writing & scholarship
Collaborative data repositories
Develop a clinical scientist research program

Clinicians and PhD’s engaged in research and scholarly activity

Year 3
Increase jointly developed NIH grant submissions by 7
Establish strong “bench” of faculty clinical scientist mentors
TTUHSC and TTUHSC El Paso Offices of Research
5 Year Strategic Plan

Year 1
Incentivize faculty
Celebrate faculty successes
Understand conditions that lead to research success

Year 3
Develop research incentive program

Retain top research faculty
THANK YOU

Deborah J. Clegg, PhD.
Joseph A. Heppert, PhD.
Lance R. McMahon, Ph.D.