College of Medicine Research Update

Research Subcommittee
FSU Board of Trustees
November 16, 2021
Outline

• Short history of the College of Medicine
• COM development / structure
• History of “Science” at FSU
• Research success at the FSU COM
• Recent research “wins”
• Collaborations with FSU colleges
• UF – FSU CTSA success and future
• Research collaborations with TMH
• Research challenges
• Future opportunities
Established June 2000, by the Florida Legislature
(John Thrasher, Speaker)

HB 1121
There is hereby established a 4-year allopathic medical school within the Florida State University, to be known as the Florida State University College of Medicine, with a principal focus on recruiting and training medical professionals to meet the primary health care needs of the state, especially the needs of the state’s elderly, rural, minority, and other underserved citizens.
MISSION

The Florida State University College of Medicine will educate and develop exemplary physicians who practice patient-centered health care, discover and advance knowledge, and are responsive to community needs, especially through service to elder, rural, minority, and underserved populations.
FSU College of Medicine

Founded in 2000
Buildings completed 2005
First class (27) graduated in 2005
First full enrollment (120) class graduated 2011
17 MD classes graduated to date - 1601 MD graduates
2 PA classes graduated to date – 88 PA graduates
188 Bridge MS students
71 PhD Graduate students
Florida State University College of Medicine
Regional and Rural Campuses / GME Programs

GME Programs A-D

- Tallahassee (A)
  - IM
  - GS
- Sarasota (B)
  - IM
  - EM
- Fort Myers (C)
  - FM
  - IM
- Winter Haven (D)
  - FM

Regional campuses:
1: Daytona Beach
2: Fort Pierce
3: Orlando
4: Pensacola
5: Sarasota
6: Tallahassee

Rural training sites:
7: Immokalee
8: Marianna

Clinical training site:
9: Thomasville, Ga.
Research Awards 2007-2021

Total Awards - All Sources

Year:
- 2007: $0
- 2008: $10,000,000
- 2009: $20,000,000
- 2010: $40,000,000
- 2011: $60,000,000
- 2012: $80,000,000
- 2013: $100,000,000
- 2014: $120,000,000
- 2015: $140,000,000
- 2016: $160,000,000
- 2017: $180,000,000
- 2018: $200,000,000
- 2019: $220,000,000
- 2020: $240,000,000
- 2021: $260,000,000

Note: 1 Qtr

FLORIDA STATE UNIVERSITY
COLLEGE OF MEDICINE
Research Awards 1st Qtr. FY 22

$36.26 Million in new awards this last quarter
Recent Research Wins

Dr. Sylvie Naar – Principal Investigator
Study of HIV in “emerging adults” ages 18-29, $6.5 million 5 year NIH grant
Awarded by NIH’s National Institute of Alcohol Abuse and Alcoholism
Collaborative effort with the UF, UCF Nova SE University.

Dr. Naar and FSU Team awarded “Transformative” NIH Award
Interdisciplinary Team - NIH Director’s Transformative Research Award worth $3.1 million
Goal: investigate racial inequities in the nation’s health-care system.
The first of its kind to be administered by the National Institute of Minority Health and Health Disparities. Dr. Sylvie Naar (COM) Dr. Norman Anderson (VPR), Dr. Carrie Pettus (CSW)

Frankie Wong (CON) and co-PIs Sylvie Naar (COM) and Pam Keel (A&S)
Fostering Institutional Resources for Science Transformation: The FLORIDA-FIRST
Health-Science Brigade - $12.8 M NIH grant to foster diversity, inclusion, and equity.
NIH Faculty Recruitment for Sustainable Transformation (FIRST) Program
The Autism Institute was established to coordinate and promote research, education and service related to autism spectrum disorders (ASD’s).

- Promote interdisciplinary research / advance scientific knowledge of ASD,
- Bridge the gap between science and clinical /educational practice
- Build the capacity of health care providers, educators, family members, and individuals with ASD’s to improve outcomes through research and training.
- Maximize the use of innovative video and computer information technology in research, education, and service related to autism spectrum disorders.

Amy M. Wetherby, PhD
Distinguished Research Professor of Clinical Sciences
FSU Faculty since 1983
NIH continuously funded

Recent $9.1% M NIH Award July 2021

Trial of the Early Social Interaction (ESI) Model using Mobile Technology for Toddlers with Autism Identified from Early Screening in Primary Care
Research Expenditures 2007-2021

After 2015 = clusters hires / establishment of COE’s in BSSM
Biomedical Sciences (BMS)

- Interdisciplinary department with its own and joint Neuroscience PhD programs.
- Strong research trajectory over the last 12 years
- Investments in core facilities, faculty hires, and support of the BMS graduate program.
- Doubled its research expenditures to $6 million since 2014.
- 10 of 12 faculty hired over the past 12 years, have NIH or other federal grant support
- Home of a core facility for genomics and proteomics processing for the entire university

Behavioral and Systems Biology

Biochemistry and Biophysics

Molecular, Cellular and Developmental Biology
BSSM investigates the influence of individual, interpersonal, and community factors on health, in the context of behavior, social, and societal forces. It has 2 university centers,

- Center for Translational Behavioral Science
- Center for Behavioral Health Integration,

Both do community-engaged, high-impact work on underserved populations.

BSSM has increased its external research funding portfolio by 380% in four years.

Home to an interdisciplinary outpatient treatment center FSU Behavioral Health™ at Apalachee Center.
Statewide Collaborations

UF Clinical and Translational Science Institute
UNIVERSITY of FLORIDA

Florida State University
SEMINOLES

THE FLORIDA STATE UNIVERSITY
COLLEGE OF MEDICINE
Clinical Research Network
Improving the health of Florida residents through translational science
Mission Statement

Translational science at FSU engages communities in developing and testing bio-behavioral interventions across the translational spectrum to address sociocultural determinants of health.

Evolution of UF-FSU CTSA Partnership

Create 2009-2015

Strengthen 2015-2019

Expand 2019-2024

Translational Research and Training Across 7 FSU Colleges

UF CTSI Funded

State Funding for UF and FSU Research Network

CTSA 2.0

FSU COM joins as community partner

CTSA 3.0

UF-FSU Integration as a HUB CTSA

FSU CTSA Executive Committee:
Medicine, Communication and Information, Nursing, Human Sciences, Social Work.
Clinical Translational Science Award revision as UF-FSU Hub

FSU CTSA Steering committee: 7 Colleges

Translational Science and Health Science Researchers in 7 Colleges: Human Sciences, Nursing, Social Work, Arts & Science, SSPP, CCI, COM

K Scholar Program
Medical Student Research
Bioinformatics, Epidemiology and Research Design
Network for Clinical Research and Training:
Team Science Pilot Grants
Community Engagement
Network Science

Joint UF-FSU Pilot Programs 2021

Precision Health
Network Science
Health Outcomes
## Platforms for Translational Research

### Investing in Team Science to Improve Health in Rural Communities

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<th>Platform</th>
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| Pesticides Implications for Rural Children’s Health Disparities | • Focus on chronic, low dose exposure  
• 100 parent-child dyads  
• Assessments |
| Disaster Rebound and Recovery: A Translational Research Project | • Establish an evidence-informed social-emotional learning program delivered to youth |
| Hurricane Resilience for Special Needs Populations in Rural Communities | • Engaging stakeholders and scientists to build infrastructure and resilience |

**Expertise in Health Disparities, PH, Behavioral / Mental Health, Lifespan Health, and Resilience.**
FSU Resource Planning for New CTSA

Translational Research Institute Focused in Rural Communities

- FSU K Scholar Program
- FSU CTSA Community Engagement
- FSU Rural Health Pilots
- Critical Data Management, Storage and Retrieval
- TMH-FSU COM- St Joe partnership for a medical campus in Panama City
- Leon, Gadsden, Panhandle clinics, schools
- FSU CON, COM, HS, Engineering, CCI Rural Health

Community Engagement Research Coordinator
Interdisciplinary Clinical Research Support

A diverse and interconnected network of offices, labs, facilities and grant funded programs that collaborate to leverage resources for investigators.

Goal: Advance Patient Centered Research and Outcomes.
• Helped to finalize a five-year research collaboration agreement between FSU and TMH
• Launched a national search for a TMH Chief Clinical Research Officer with the support of the VPR
• Supported the hire of a biostatistician and a regulatory expert in clinical trials within OCRA
• Developing a Clinical Research & Trials Unit at Innovation Park, a university-based facility for clinical research and trials
The COM with its distributed model does not have a major academic teaching hospital

- Small clinical departments at the main campus
- Limited specialization among core faculty
- Major traditional mission focus on teaching, not research
FSU Research Opportunities

• TMH Academic partnership 2021-22
  • Clinical, research and education goals are aligned
  • Multiple specialty groups / large patient base
  • Need to build research support for clinical faculty
  • Campus building for research / education

• TMH – St. Joe – FSU partnership
  • MOB planning underway (December 2023) – FSU Health
  • Clinical, educational, and research space planned
  • Support both “Latitude” and the PCB community
  • Population health, healthy aging research
  • Health outcomes, CVD, cancer
Key Benefits of FSU / TMH Partnership

• Hospital support to fund and grow tripartite mission
• Dedicated, co-branded space for clinical and population health research and education
• Increase and retain students / residents in Florida
• Leverage TMH’s patient population for clinical, population, and translational research
• Raise FSU ranking by increasing federally awarded research expenditures
Strategic focus area #2: Research

Assess research capabilities and resources, identify and grow high impact investigation, and invest in initiatives to improve research collaboration. Grow clinical research in health outcomes, population health, geriatrics, oncology, and cardiovascular disease

• Plan for a new TMH campus building dedicated to research / education

• Initial focus areas for clinical research:
  • Health outcomes / Population health
  • Geriatrics / Clinical trials
  • Cardiovascular disease (CVD) / Cancer
Key Benefits for the Community

• Retain / attract talent and expertise
• Improve access to care and new cutting-edge treatments
• Support underserved communities
• Attract private industries and foundations through research, technology, and discoveries
• Drive economic growth through the creation of new jobs
Questions?

FLORIDA STATE UNIVERSITY
COLLEGE OF MEDICINE