

CHRONIC DISEASE PREVENTION ● HEALTH DISPARITIES ● IMPROVING HEALTH OUTCOMES IN THE UNDERSERVED POPULATION

# **2023 Executive Summary**



## **Baton Rouge**

- > Pennington Biomedical Research Center
- > LSU A&M





## **New Orleans**

- > LSU Health New Orleans
- > Tulane University
- Xavier University
- Children's Hospital
- LSUH-NO School of Dentistry
- > Ochsner Health System
- University Medical Center (UMC)
- Southeast LA VeteransHealth Care System



## 2023

## **Executive Summary**

The Louisiana Clinical and Translational Science (LA CaTS) Center combines 10 major Louisiana academic, research and health care delivery institutions into a unified research infrastructure, collectively addressing health disparities and improving health outcomes in our underserved population with chronic diseases.



The core of the LA CaTS Center comprises three primary collaborating institutions – Pennington Biomedical Research Center (Lead), LSU Health-New Orleans, **Tulane Health Sciences Center**—complemented by strong research partners including LSU Health-Shreveport, Xavier University of Louisiana, Children's Hospital of New Orleans, Louisiana State University A&M College, Southeast LA Veterans Health Care System, University Medical Center, Ochsner Health System and LSU Health School of Dentistry.

Four important Specific Aims for the LA CaTS Center:

**Specific Aim 1**: Strengthen the collaborative infrastructure that fundamentally supports clinical and translational research in Louisiana's academic institutions.

**Specific Aim 2**: Expand bi-directional relationships between our communities and urban and rural safety-net clinics, as well as to increase health literacy, participation in research trials, and overcome barriers to disease management.

**Specific Aim 3**: Provide additional coordinated services for successful completion of clinical and translational research both within and across participating institutions and communities.

**Specific Aim 4**: Increase the number of investigators performing clinical and translational research and provide for growth in multidisciplinary and multi-institutional projects addressing disparities and health outcomes.



LA CaTS Center Cores & Resources to achieve the Specific Aims



















## **Executive Summary**

The LA CaTS Center has been successful in aligning priorities and committing resources of the major biomedical institutions of the state by growing a single clinical and translational science (CT) program for Louisiana. We provide a unified, coordinated system to approach and conduct clinical trials that addresses issues on a statewide level.

### Major accomplishments since 2012:

- 1. Securing more than \$280 million in extramural grant awards for Louisiana approximately \$200 million in NIH awards
- 2. Contributing more than 1,900 publications and 900 competitive scientific presentations
- 3. Expansion & engagement of **new partners & resources**. Example: expansion of BMI Core collaboration access to clinical data from across the state and creation of virtual cohorts (e.g., breast cancer, diabetes, HIV, COVID-19), now being used in LA CaTS Center pilot projects, Roadmap Scholars projects and multiple NIH grant applications
- 4. Recruiting diverse study population (~40% ethnic minority) for the statewide network of Clinical Trial Units (CTUs)
- 5. Highly Engaged Community Advisory Boards (CAB) headquartered in the New Orleans, Baton Rouge and Shreveport/North Louisiana regions. Members participate on research teams to develop and implement studies and serve as advisers to investigators on a broad range of study ideas and ongoing research.
- 6. Giving more than 850 CT scientists access to technical services and resources provided by the LA CaTS Center Cores.
- 7.30 career promotions for past and current Roadmap and Meritorious Scholars
- 8.18 career promotions reported for Young Investigators affiliated with the Pilot Grants Program
- 9. Provided over 215 CT Training and Professional Development opportunities for researchers and community members through LA CaTS Center seminars, workshops, and virtual platforms.
- 10. Total of 10 NIH supplement grants awarded, totaling >\$8.4 million

#### Additional Funding Success: Subawards & Administrative Supplements

- 1. "Effects of E-Cigarettes on the Lung Metabolome in People Living with HIV" Project Leads: David Welsh, MD (LSU Health New Orleans) & John Apolzan, PhD (Pennington Biomedical Research Center)
- 2. "Pregnancy Complications and Cardiometabolic Health in American Indian Women" Project Lead: Emily Harville, PhD (Tulane University)
- 3. RADx-UP: "Transforming Community Engagement to Increase SARS-CoV-2 Testing in Underserved Populations in Baton Rouge" - Project Lead: Peter Katzmarzyk, PhD (Pennington Biomedical)
- 4. RADx-UP: "Engaging Church Health Ministries to Decrease SARS-CoV-2 Vaccine Hesitancy in Underserved Populations in Baton Rouge" - Project Lead: Peter Katzmarzyk, PhD (Pennington Biomedical)
- 5. National COVID Cohort Collaborative (N3C): "Improving Health through Partnerships and Transformative Research" - Project Lead: Lucio Miele, MD, PhD (LSU Health New Orleans)
- 6. "Health Disparities and SARS-CoV-2 Evolution: A Focused Viral Genomics Study" Project Leads: Lucio Miele, MD, PhD (LSU Health New Orleans) & Daniel Sarpong, PhD (Xavier University)
- 7. NIH RECOVER: "A Multi-Site Observational Study of Post-Acute Sequelae of SARS-CoV-2 Infection in Adults"-Project Leads: Judd Shellito, MD (LSU Health New Orleans), Vivian Fonseca, MD (Tulane University), & Frank Greenway, MD (Pennington Biomedical)
- 8. "SARS-CoV-2 Genomics Surveillance Network" Project Lead: Lucio Miele, MD, PhD (LSU Health New Orleans)
- 9. "Metabolic Inflammation, Viral Persistence and Bioenergetic T-Cell Fatigue in Post Acute SARS-CoV2"-Project Lead: John Kirwan, PhD (Pennington Biomedical)
- 10. NIH Administrative Supplement to "Advance the Use of Electronic Health Records for Research" Project Leads: Ronald Horswell, PhD (Pennington Biomedical), Lizheng Shi, PhD, & Vivian Fonseca, MD (Tulane University)





















## ACKNOWLEDGEMENT

We would like to acknowledge the LA CaTS Center Governing, Advisory, and Operations Committees that have contributed to our success in 2023.

#### **Executive Council**

- John Kirwan, PhD, LA CaTS Director
- L. Lee Hamm, MD, LA CaTS Program Co-Director
- Steve Nelson, MD, LA CaTS Program Co-Director

### **Internal Advisory Committee**

- Donna Ryan, MD, Chair, Pennington Biomedical
- Patrice Delafontaine, MD, Tulane University
- Jyotsna Fuloria, MD, University Medical Center
- David Guzick, MD, PhD, LSU Health Shreveport
- Kathleen Kennedy, PharmD, Xavier University
- Gus Kousoulas, PhD, LSU A&M
- Eric Ravussin, PhD, Pennington Biomedical
- Mark Roberts, MD, Ochsner Health System
- Brooks Robey, MD, VA Southeast LA Healthcare
- · Royce Sampson, MSN, Medical Univ. of South Carolina
- Janet Southerland, PhD, LSU Health New Orleans

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- Elizabeth Floyd, PhD (PB)
- Bonnie Hymel (PB)
- Kieu Pham (PB)
- Carly Pigg (LSUHNO)
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- D'Andra Odom (PB)
- LaKeisha Williams, PharmD (XU)

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- Daniel Fort, PhD (OCH)
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- Chindo Hicks, PhD (LSUHNO)
- Ron Horswell, PhD (PB)

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- Frank Greenway, MD (PB)
- Charles Hemenway, MD, PhD (CH)
- Roberta McDuffie, MSN (TU)
- Cynthia Moreau (TU)
- Judd Shellito, MD (LSUH-NO)
- John Vanchiere, MD, PhD (LSUHS)
- David Welsh, MD (LSUHNO)

#### **Health Literacy**

- Connie Arnold, PhD (LSUHS)
- Fermine Thomas-Dean (LSUHS)

#### **Pilot Grants Program**

- Augusto Ochoa, MD (LSUHNO)
- Peter Katzmarzyk, PhD (PB)
- Tonette Krousel-Wood, MD (TU)

  PB Pennington Biomedical ♦ LSUHNO LSU Health New Orleans ♦ TU Tulane Univ ♦ LSUHS LSU Health Shreveport ♦ OCH Ochsner ♦ XU Xavier University ♦ CH Children's Hospital

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- Daniel Kapusta, PhD (LSUHNO)
- Leanne Redman, PhD (PB)
- Michelle Wilson (TU)

#### **Tracking & Evaluation**

- Sylvia Goldman, PhD (PB)
- Brian Melancon (PB)

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