

# THE NIH IDeA PROGRAM IN MISSISSIPPI

- BUILDS RESEARCH PROGRAMS
- CREATES INNOVATION
- PROVIDES EDUCATION
- GENERATES WORKFORCE
- IMPROVES PUBLIC HEALTH

## CoBRE and INBRE AWARDS in MISSISSIPPI

### Centers of Biomedical Research Excellence (CoBRE)

4 current awards (8 total): \$79,218,825

### IDeA Network of Biomedical Research Excellence (INBRE)

2 current awards (3 total): \$82,442,164



MISSISSIPPI			
PROGRAM	INSTITUTION	YEARS IN OPERATION	IDEA FUNDS AWARDED
NIH CoBRE	University of Mississippi	2006 - 2012	\$11,069,883
		2012 – Current	\$10,013,047
	University of Mississippi Medical Center	2002 – 2007	\$ 9,420,542
		2007 – 2012	\$11,129,631
		2013 – 2018	\$ 5,588,925
		2013 – 2018	\$11,405,051
	Mississippi State University	2002 – 2006	\$10,483,105
		2013 – Current	\$10,108,641
NIH INBRE	University of Southern Mississippi	2001 – 2011	\$48,349,178
		2012 – Current	\$14,236,616
	University of MS Medical Center	2016 – Current	\$19,856,370
		<b>TOTAL IDEA FUNDS</b>	<b>\$161,660,989</b>

COBRE – Dr. John Hall, PI and Director /OCMDC/Univ. of Mississippi Medical Center/Jackson, MS/601-984-1801  
 COBRE – Dr. Craig Stockmeier, PI and Director/CPN/Univ. of Mississippi Medical Center/Jackson, MS/601-984-6675  
 COBRE – Dr. Soumyajit Majumdar, PI and Director/University of Mississippi/Oxford, MS/662-915-3793  
 COBRE – Dr. Steve Pruet, PI and Director, Mississippi State University/Starkville, MS/ 662-325-1130  
 INBRE – Dr. Mohamad O. Elasri, PI and Director/University of Southern Mississippi/Hattiesburg, MS/601-266-6916  
 IDeA/CTR – Dr. James Wilson, PI and Director/University of Mississippi Medical Center/Jackson, MS/601-984-2855

## TOP NIH-FUNDED MISSISSIPPI RESEARCH AREAS

- Obesity, Cancer, and Sexually Transmitted Diseases
- Natural Products and Psychiatric Neuroscience
- Cardiovascular, Renal, and Metabolic Diseases
- Infectious Diseases in Human and Animals
- Environmental Health/Toxicology
- Functional Genomics

The CoBRE and INBRE programs generate, complement, and enrich Mississippi's research strengths by leveraging NIH investment in personnel, equipment, core facilities and student programs to solve health problems, build research capacity, and build a better student pipeline for the next generation of physicians, healthcare workers, and scientists. NIH CoBRE and INBRE investments are enabling Mississippi researchers to advance understanding of how to prevent, treat, and cure cardiovascular, renal, metabolic, and infectious diseases.

## IMPACT OF NIH/COBRE IN MISSISSIPPI

### RESEARCH and TECHNOLOGY DEVELOPMENT

- ❖ Developing new diagnostics and treatment protocols for influenza, pneumonia, skin and blood infections, and other infectious diseases that affect humans, birds, and mammals;
- ❖ Developing novel mechanisms to deliver natural products-based therapeutic agents to target body parts while minimizing impact to other body parts—for treating diseases such as glaucoma;
- ❖ Developing multidisciplinary approaches to preventing, treating, and curing obesity, heart disease, renal disease, and animal/human viruses;
- ❖ Discovering biological basis for psychiatric illness and substance use disorders through animal models and human post-mortem brain tissues from psychiatrically-characterized subjects.

### EDUCATION and WORKFORCE DEVELOPMENT

- ❖ Building a pipeline of new healthcare providers and researchers through student research experiences with biomedical researchers and clinicians;
- ❖ Recruiting, training, and mentoring a diverse group of undergraduate students and postdoctoral trainees to become the next generation of biomedical researchers and clinicians;
- ❖ Developing multidisciplinary, multi-institutional biomedical education collaborations among Jackson State University, Mississippi State University, the University of Mississippi including the UM Medical Center, the University of Southern Mississippi, and industrial partners.

### PUBLIC HEALTH

- ❖ Developing means to reduce Mississippi and national incidence and disparities in cardiovascular, renal, and metabolic disease, obesity, psychiatric illness, and substance use disorders;
- ❖ Fostering a greater understanding of infectious diseases to protect the safety of animals, humans, and the food supply;
- ❖ Providing outreach via health education into underserved communities throughout the state.