

# THE NIH IDEa PROGRAM IN OKLAHOMA

The National Institutes of Health (NIH) Institutional Development Award (IDeA) programs in Oklahoma complement and enrich Oklahoma's research strengths by leveraging NIH investment in personnel, equipment, core facilities and student programs to solve health problems, build research capacity, and expand and strengthen opportunities for the next generation of physicians, healthcare workers, and scientists. Clinical and translational research through NIH IDeA support also seeks to reduce health disparities in underserved and understudied populations.

## **Centers of Biomedical Research Excellence (CoBRE)** (Disease-specific research centers)

## **IDeA - Clinical and Translational Research (OSCTR)** (Multi-institution and agency collaboration)

## **IDeA Network of Biomedical Research Excellence (OK-INBRE)** (Statewide research capacity and infrastructure improvement)

### **BUILDS RESEARCH PROGRAMS**

CANCER RESEARCH  
AUTOIMMUNE DISORDERS  
INFECTIOUS DISEASES  
STRUCTURAL BIOLOGY

### **IMPROVES PUBLIC HEALTH**

DIABETES  
VISION  
OBESITY  
HEALTH SERVICES

### **PROVIDES EDUCATION AND WORKFORCE**

RESEARCH TRAINEES  
FACULTY CAREER DEVELOPMENT  
TEACHER EDUCATION

### Statewide and Regional Collaborators among the Oklahoma IDeA Programs



# IMPACT OF NIH/IDEA IN OKLAHOMA

## RESEARCH

- ❖ Fundamental discovery from NIH awards leading to: New diagnostics, Treatment protocols, Biotech
- ❖ Infrastructure for junior clinical and research investigators to launch their careers
- ❖ Building translational research from bench-to-bedside-to-bench: Precision Medicine

## EDUCATION

- ❖ Builds a pipeline of new healthcare providers for next generation (INBRE/OSCTR)
- ❖ Working with Physicians to enhance best practices in rural communities (OSCTR)
- ❖ Enhancing STEM degrees – thousands of teacher and student interactions (INBRE)

## WORKFORCE DEVELOPMENT

- ❖ Biotechnology program development and improvement in Oklahoma (INBRE)
- ❖ Producing scientists and educators for Oklahoma and the country (CoBRE, INBRE, OSCTR)
- ❖ Working with tribal groups to train health care workers to improve healthcare for OK tribes (OSCTR interaction with Oklahoma City Area Inter-Tribal Health Board)

## PUBLIC HEALTH

- ❖ Enhancing research at the Stephenson Cancer Center, achieving NCI Cancer Center Designation (Research grants, NCI's National Clinical Trials Network, OSCTR, CoBRE, INBRE)
- ❖ Clinical and translational research to improve health and healthcare for underserved and underrepresented populations and all citizens (OSCTR)
- ❖ OSCTR leveraged a \$14.8 M award from AHRQ to disseminate best practices to reduce cardiovascular disease throughout Oklahoma (partnership with 300 physicians and clinics throughout Oklahoma)

Oklahoma IDeA Awards	Institution	Years of Operation	IDeA Funds Awarded through end of grant period
Science in a Culture of Mentoring	OMRF	2000 - 2017	\$21,734,216
Functional Genomic/Proteomic Analysis of Bacterial Host Interactions	OUHSC	2000 - 2010	\$20,963,855
Mentoring Vision Research	OUHSC	2002 - 2013	\$23,800,000
Interdisciplinary research in vascular biology	OMRF	2003 - 2021	\$28,751,761
Biofilm Formation and Metabolism on Dental Surfaces	OUHSC	2003 - 2012	\$9,700,000
Molecular Mechanisms and Genetics of Autoimmunity	OMRF	2004 - 2019	\$31,155,096
Mentoring Diabetes Research in Oklahoma	OUHSC	2007 - 2022	\$28,213,104
Oklahoma COBRE in Structural Biology	OU	2012 - 2022	\$20,190,904
Mentoring Translational Cancer Research in Oklahoma	OUHSC	2012 - 2023	\$21,425,175
Expanding Excellence in Developmental Biology in Oklahoma	OMRF	2013 - 2023	\$25,811,740
Oklahoma Center for Respiratory and Infectious Diseases	OSU	2013 - 2023	\$20,995,071
Children's Health Equity Solutions Center	OSU CHS	2016 - 2021	\$11,836,550
The Center for Neuroscience-based Mental Health Assessment and Predication (NEUROMAP)	LIBR	2017 - 2022	\$11,989,205
Oklahoma Shared Clinical and Translational Resources (IDeA-CTR)	OUHSC	2013 - 2023	\$40,532,460
Oklahoma IDeA Network of Biomedical Research Excellence	OUHSC	2001 - 2024	\$83,306,063
<b>TOTAL</b>			<b>\$400,405,200</b>