

NIH IDeA PROGRAMS



The Institutional Development Award (IDeA) is a congressionally mandated program that builds research capacity in states that historically have had low levels of NIH funding. It supports competitive basic/ clinical/translational research, faculty development, and infrastructure improvements. The program aims to strengthen an institution's ability to support biomedical research, enhance the competitiveness of investigators in securing research funding, and enable clinical and translational research that addresses the needs of medically underserved communities.

The **IDeA** programs generate, complement, and enrich Idaho's research strengths by leveraging NIH investment in personnel, equipment, core facilities, and student programs to solve health problems and enhance a better student pipeline for the next generation of physicians, healthcare workers, and scientists.

Economic Impact on Idaho

The IDeA Program has had a \$365 million economic impact in Idaho since 2000*

*Tripp, S., & Grueber, M. (2011). Economic impact of the human genome project. *Battelle Memorial Institute*, 58, 1-580.

INBRE

IDeA Network of Biomedical Research Excellence

COBRE

Centers of Biomedical Research Excellence

Impact of Program FY23-24

Research

- Infrastructure for early-stage and emerging research investigators to launch their careers
- Interdisciplinary model-based research
- Providing access to data science CORES
- Discovery of fundamental knowledge impacting new treatments
- Core facilities with state-of-the-art research equipment

Workforce Development

- Undergraduate internships in local biomedical industries
- Cross-disciplinary training
- Support for new faculty hires
- Support for postdoctoral researchers and staff scientists

Education

- Student pipeline for the next generation of scientists
- Involvement on interdisciplinary teams
- Graduate and undergraduate student training and support

Public Health

- Enhancing research to solve health problems
- Providing a foundation for treatments for cardiovascular disease, cancer progression, liver fibrosis, and ligament repair
- Contributing to solutions for drug resistance, vaccine efficacy, and emerging new diseases

Program Overview

COBRE and INBRE

Awards in Idaho:

- Build research programs
- Improve public health
- Provide education
- Generate workforce
- Create innovation & regional networks

COBRE – 3 active awards
(7 total): \$50.2 million

INBRE – 1 current award:
\$105.5 million

Top NIH-Funded Idaho Research Areas:

- Pathogenesis
- Drug Development
- Mathematical Modeling
- Matrix Biology
- Biosensors
- Developmental Biology
- Nutrition and Women's Health



Heather Ray, Ph.D. Assistant Professor at Idaho State University, is an INBRE student Preceptor. Heather was recently awarded an R15 to investigate an essential enzyme involved during early embryonic development. Heather says, *“Idaho-INBRE was essential for my achievement of independent NIH funding, from funding all of the preliminary data to providing financial support for the undergraduate and graduate students who carried out the research, along with opportunities to network with other biomedical researchers across the state.”*



Julia Palmer began her undergraduate career at North Idaho College, a community college, intent on going to nursing school. In preparation, she worked in a hospital but realized she didn’t enjoy the clinical exposure. NIC faculty encouraged her to transfer to the University of Idaho and apply to become an INBRE Fellow. She found Dr. Nathan Schiele’s laboratory where she studies the role of the enzyme lysyl oxidase in tendon injury repair. **This INBRE undergraduate research changed her career trajectory.** Julia says, *“I’m majoring in biological engineering, loving research, wanting to go to graduate school, and seeing my future in experimental science.”*

Statewide Funding (Idaho: COBRE/INBRE/CTR) FY24-25

Program/Grant Name	Type/Institution	Years in Operation	IDEA Funds Awarded
Idaho INBRE	University of Idaho	2001 – 2025	\$105,515,840
COBRE: Host-Pathogen Interactions	University of Idaho	2000 – 2009	\$18,957,726
COBRE: Processes in Evolution	University of Idaho	2002 – 2017	\$27,053,870
COBRE: Matrix Biology	Boise State University	2014 – 2029	\$28,047,940
COBRE: Center for Modeling Complex Interactions	University of Idaho	2015 – 2025	\$22,330,923
COBRE: Emerging and Re-emerging Pathogens	Idaho Veterans Research and Education Foundation	2016 – 2021	\$10,000,000
COBRE: Convergent Engineering and Biomolecular Science (CEBS)	Boise State University	2023 – 2028	\$10,211,743
COBRE: Nutrition and Women’s Health	University of Idaho	2024 – 2029	\$11,928,535
Applications Pending NIH Review			
CTR-D (Jorecyk)	Boise State University	2024 – 2029	
COBRE (Estrada/Uzer)	Boise State University	2025 – 2030	
COBRE (Ammons)	Boise VA (IVREF)	2025 – 2030	
COBRE (Schiele/Bernards)	University of Idaho	2025 – 2030	
		Total Awarded	\$234,046,577