

Idaho ~ NIH IDeA PROGRAMS

The Institutional Development Award (IDeA) is a congressional line-item 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 strengthens an institution's biomedical research, enhances the competitiveness of investigators in securing research funding, and enables 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 the student pipeline for the next generation of physicians, healthcare workers, and scientists.

Outcomes Since 2000



**>\$250M
In Program
Funding**



**>\$616M
Economic
Impact***



**8,039
Students
Trained**



**10,154
Scientific
Presentations**



**>\$5M
New
Instrumentation**



**2,750
Scientific
Publications**

Program Overview

NIH IDeA Awards in Idaho:

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

NIH-Funded Idaho Research Areas:

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

*Based on NIH.gov
\$1 generates approx. \$2.46 of economic impact

Spotlight Stories



Erin Mannen, PhD, Professor of Mechanical and Biomedical Engineering, Boise State University was awarded an NIH R01 grant award for her work, “*Quantifying the effect of biomechanical sudden unexpected infant death (SUID) risk factors on infant respiration*”. Her work will provide a foundational understanding and translational knowledge for clinicians, parents, and infant product designers to reduce the risk of SUID. Dr. Mannen has mentored many Idaho INBRE students in her research laboratory and was a Research Project Lead on the NIH Center of Biomedical Research Excellence (COBRE) in Convergent Engineering and Biomolecular Sciences grant at Boise State.



Lance R. Fredericks, B.S., is in the MD/PhD Program at the University of Washington. As an undergraduate student at the University of Idaho, Lance was an INBRE Fellow with Dr. Rowley in the Department of Biological Sciences. His research described the unique sensitivity of an opportunistic human pathogen, *Candida glabrata*, to protein toxins produced by common Baker’s yeast. This finding has potential therapeutic uses to combat *C. glabrata* infections because this pathogen is increasingly found to be drug resistant. Lance’s research in the Rowley laboratory lead to two first-author scientific publications and several presentations at international conferences.

Idaho Statewide Funding (INBRE/COBRE/CTR-D)

Program/Grant Name	Type/Institution	Years in Operation	IDEA Funds Awarded
Idaho INBRE	University of Idaho	2001 – 2030	\$105,343,166
COBRE: Host-Pathogens 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 – 2030	\$28,482,623
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
CTR-D: Healthy Idaho Clinical & Translational Research Development Program	Boise State University	2025 - 2030	\$10,650,149
		Total Awarded	\$250,675,752

INBRE - IDEa Network of Biomedical Research Excellence

COBRE - Centers of Biomedical Research Excellence

CTR-D - Clinical Translational Research Division