

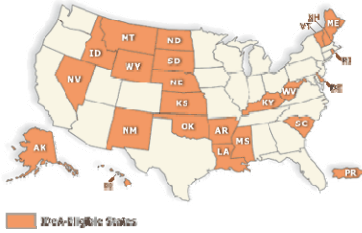


IDEA Network of Biomedical Research Excellence

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Principal Investigator*

What is IDEa?

Institutional Development Award



NCRR's Institutional Development Award (IDEa) program broadens the geographic distribution of NIH funding for biomedical and behavioral research. The program fosters health-related research and enhances the competitiveness of investigators at institutions located in states in which the aggregate success rate for applications to NIH has historically been low.

Maine's IDEa Programs

Centers of Biomedical Research Excellence (COBRE)

Maine Medical Center Research Institute

- Stem and Progenitor Cell Biology (PI: Don Wojchowski, PhD)
- Vascular Biology (PI: Robert Friesel, PhD)

IDEa Networks of Biomedical Research Excellence (INBRE)

MDI Biological Laboratory

- Comparative Functional Genomics



How does INBRE work?

Strengthen biomedical research infrastructure

- people & resources
- multi-institutional
- multi-disciplinary with thematic scientific focus
- Research support to faculty, research assts, graduate students
- Investments in core facilities and equipment
- Research training for undergraduates
 - Research fellowships
 - Short courses
- Outreach - Maine high school students, MBMSS
- Serve as a pipeline for students and faculty to continue in health research careers
- Enhance scientific & technical knowledge of Maine's workforce

Improving Competitiveness

Maine ranks 40th for grants awarded by NIH

INBRE is helping to improve that statistic:



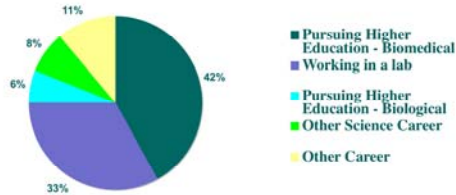
- Number of publications tripled
- Publications with undergraduate student authors increased five-fold
- One third of previously funded INBRE scientists have independent research grants
- Of the 44 federal research grants submitted by INBRE scientists, 22 were funded resulting in a 50% success rate

Investigators Who Received INBRE Support

- Ryan Bavis, Bates College
- Clare Congdon, Colby College and University of Southern Maine
- Joel Graber, Jackson Laboratory
- Lynn Hannum, Colby College
- Clarissa Henry, UMaine
- Hadley Horch, Bowdoin College
- Nancy Kleckner, Bates College
- Carolyn Mattingly, MDI Biol. Laboratory
- Antonio Planchart, MDI Biol. Laboratory
- Denry Sato, MDI Biol. Laboratory
- Lindsay Shopland, Jackson Laboratory
- Rebecca Sommer, Bates College
- Nicole Theodosiou, Bowdoin College and Union College
- Andrea Tilden, Colby College



INBRE Student Tracking



100 of the 226 students who participated in INBRE Training over the first four years of the grant have graduated.

INBRE Institutions

IdEA Network of Biomedical Research Excellence

Research Institutions
MDI Biological Laboratory (Lead)
The Jackson Laboratory
The University of Maine

Educational Institutions
Bates College
Bowdoin College
Colby College
College of the Atlantic
Southern Maine Community College
University of Maine at Farmington
University of Maine at Machias

Outreach Institutions
University of Maine at Fort Kent
University of Maine at Presque Isle
Maine high schools



New INBRE-funded Investigators

Ryan Bavis, PhD, Bates College
Regulation of Carotid Body Development by Hyperoxia

Jack Bateman, PhD, Bowdoin College
Studies of Interchromosomal Gene Regulation in Drosophila melanogaster

Randall Dahn, PhD, MDIBL
Identifying Conserved and Novel Regulatory Pathways in Vertebrate Limb Regeneration by Comparative Genomic Analysis

Ellen Hostert, PhD, University of Maine-Machias
Major Histocompatibility Complex Class II Alleles: Genetic and Functional Variation in the Antigen Binding Site of Atlantic Salmon, Salmo salar

New INBRE-funded Investigators

William Jackman, PhD, Bowdoin College
Comparative Functional Analysis of a Vertebrate Genomic Cis-regulatory Region Involved in Embryonic Organogenesis

Kevin Rice, PhD, Colby College
DNA Repair Events Associated with Carbamoylating Anticancer Agents

Paula Schlx, PhD, Bates College
Translational Regulation of Ribosomal Protein and RNA Polymerase Subunit Synthesis in Diverse Bacterial Species

Robert Wheeler, PhD, University of Maine
Genomic Interrogation and Perturbation of Natural Fungal-Host Cell Surface Dynamics

New INBRE Program Elements

The new INBRE builds on the structure established during the previous grant period to:

- Increase the number of ME-INBRE academic institutions from 4 UGIs to 7 UGIs and 1 community college
- Establish 8 investigator research projects
- Extend outreach to UMFK & UMPI
- Establish program for high school students
- Expand state, regional, national collaborations with other IDeA, NCCR, and NIH-supported programs
