ALASKA INBRE OVERVIEW
2014 Retreat
October 23 & 24, 2014
• The purpose of the Institutional Development Award (IDeA) Networks of Biomedical Research Excellence (INBRE) program is to augment and strengthen the IDeA-eligible state’s biomedical research capacity. The INBRE program must represent a collaborative effort to sponsor research with other research intensive institutions and institutes primarily undergraduate institutions, community colleges, and minority serving institutions.
Introduction of National Institute of General Medical Sciences (NIGMS)

New Home for IDeA Program
NIGMS Mission

• Support primarily basic and some clinical and translational research.
• Provide leadership in training the next generation of scientists.
• Enhance the diversity of the scientific workforce.
• Develop research capacities, research infrastructure and networking.
CBB Supported Programs

- Biomedical Technology, Bioinformatics, and Computational Bio.
- Genetics and Developmental Biology
- Training, Workforce Development, and Diversity
- Cell Biology and Biophysics
- Pharmacology, Physiology, and Biological Chemistry

Pre-doctoral Programs Branch

Capacity Building Branch (CBB)

NARCH

SCORE

IDeA

Post-doctoral Programs Branch
IDeA Supported Programs

COBRE

INBRE

IDeA-C TR

Co-Funding

IDeA Program
Support the development of infrastructure and human resources required to conduct clinical and translational research in IDeA-eligible states.

Enhance the ability of IDeA institutions and investigators to develop competitive clinical and translational research programs.

Foster and sustain collaboration and coordination of clinical and translational activities within and across IDeA institutions or organizations.

Contact: Dr. Raffy Gorospe, Program Director
PAR-14-303; Receipt Dates: October 8, 2014; September 30, 2015 and 2016)
INBRE Program

Biomedical Research Infrastructure Networks (BRIN), began in 2001. Re- competed in 2004 as IDeA Networks of Biomedical Research Excellence (INBRE).

**Goals**

- Build a statewide multi-disciplinary research network
- Provide support to undergraduate students, serve as “pipeline” to health research
- Increase research support to faculty, postdoctoral fellow and students
- Enhance science and technology knowledge of the state's workforce.

Contact: Dr. Krishan Arora, Program Director
Summary of IDeA Program

FY 2013

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IDeA Program Co-funding

**What**
IDeA program co-funds awards made by other NIH Institutes and Centers to support R01 or R15 grant applications from investigators within IDeA eligible states.

**Why**
This activity is highlighted in the NIH congressional appropriation language since FY 2012.

**Who**
Applicants whose proposals received excellent ratings through the peer review process but fell short of the Institute’s or Center’s pay line.

**How**
IDeA program provides 70% or up to $280,000 for each of the first two years of a selected co-funded R01 or one year for the R15 award.
Geographic Distribution

- Arkansas 3
- Delaware 2
- Hawaii 2
- Idaho 1
- Kansas 3
- Kentucky 9
- Louisiana 4
- Mississippi 1
- North Dakota 2
- Maine 1
- Nebraska 5
- Nevada 3
- New Mexico 5
- New Hampshire 4
- New Hampshire 4
- Oklahoma 1
- Puerto Rico 2
- South Carolina 7
- South Dakota 2
- Vermont 2
- West Virginia 1
- Wyoming 3
- Arkansas 3

None in Alaska
Overall Impact of IDeA Program

Fiscal Year | IDeA Program Appropriations | Total NIH Funding to IDeA states | NIH success rate | Average NIH success rate
---|---|---|---|---
1993 | $424 | | | |
1994 | $463 | | | |
1995 | $462 | | | |
1996 | $555 | | | |
1997 | $596 | | | |
1998 | $700 | | | |
1999 | $885 | | | |
2000 | $1,064 | | | |
2001 | $1,305 | | | |
2002 | $1,458 | | | |
2003 | $1,631 | | | |
2004 | $1,523 | | | |
2005 | $1,558 | | | |
2006 | $1,585 | | | |
2007 | $1,585 | | | |
2008 | $1,552 | | | |
2009 | $1,492 | | | |
2010 | $1,550 | | | |
2011 | $1,438 | | | |
2012 | $1,483 | | | |
2013 | $1,512 | | | |
Regional Meetings 2015

Mark your calendar

Central Regional IDeA Conference
North Dakota
June 1-3, 2015

Northeast Regional IDeA Conference
Maine
September 24-26, 2015

Save the Date!
Fourth Biennial Western Regional IDeA Scientific Conference
Will be hosted by the Idaho INBRE and IBEST Programs in Coeur d’Alene, Idaho at
October 12th-14th 2015

Southeastern Regional IDeA Conference
Mississippi
November 11-13, 2015
INBRE STEERING COMMITTEE

- Brian Barnes, Chair
- David Driscoll, Vice Chair
- Jocelyn Krebs, Program Coordinator
- Dana Thomas, UA Vice President for Academic Affairs and Research
- Nettie LaBelle-Hamer, UAF Associate Vice Chancellor for Research
- Fred Rainey, UAA Associate Dean for Mathematics & Natural Sciences
- Karen Schmitt, UAS Vice Provost for Research and Sponsored Programs
- Bert Boyer, UAF Director of Center for Alaska Native Health Research, Ex-Officio
- Jane Shelby, UAA Director of Alaska WWAMI, Ex-Officio
- Kelly Drew, UAF Professor, Campus Science Advisor
- Cindy Knall, UAA Associate Professor, Campus Science Advisor
- Lisa Hoferkamp, UAS Associate Professor, Campus Science Advisor
INBRE EXTERNAL ADVISORY COMMITTEE (EAC)

Glen Gaulton, Chair
   Executive Vice Dean and Chief Scientific Officer
   University of Pennsylvania School of Medicine

James Berner
   Senior Director for Science, Division of Community Health Services
   Alaska Native Tribal Health Consortium

Samuel Miller
   Professor of Genome Sciences, Medicine, and Microbiology
   University of Washington School of Medicine
INBRE MANAGEMENT ADVISORY COMMITTEE (MAC)

- Brian Barnes, Chair
- David Driscoll, Vice Chair
- Jocelyn Krebs, Program Coordinator
- Kelly Drew, UAF Professor
- Cindy Knall, UAA Associate Professor
- Lisa Hoferkamp, UAS Associate Professor
Prior BRIN/INBRE awards covered 2002-2014

Selected several research focus areas to prioritize under the umbrella of “Environmental Agents and Disease”

1. Environmental Toxicology (esp. subsistence food safety)
2. Infectious Disease (esp. zoonoses)
3. Cell/molecular basis of disease (added in INBRE-2)
BRIN/INBRE

- Major initiative of prior INBREs was HIRING and supporting new faculty
  - Specific Aim 1. Enhance and expand the multidisciplinary research network
  - Specific Aim 2: Support faculty, postdoctoral fellows, and graduate students
- “Developmental” vs. “Affiliate” faculty designations
Development of Core and administrative resources to further support INBRE Aims

Specific Aim 1. Enhance and expand the multidisciplinary research network

- Bioinformatics Core [e.g. ~200K/year to Life Science Informatics]
- Equipment/staff support for cores or shared facilities [e.g. UAF DNA Core, UAA Vivarium]
BRIN/INBRE

- Other INBRE activities in support of faculty and students
  - Graduate student fellowships (now Research Assistantships)
  - Mentor program
  - Travel support
  - Meeting support
The other major focus of INBRE has always been undergraduate student research and workforce development.

- **Specific Aim 3**: Provide undergraduate research opportunities and support the pipeline leading toward health careers [includes an emphasis on Alaska Native students]

- **Specific Aim 4**: Enhance science and technology knowledge of the workforce.

Undergraduate student research grants, support for pre-college programs, SEPA partnership, ARRA supplements for postbaccs and for graduate student “Mentoring Fellowships”
Partnerships!

- Joint position with AK Public Health (Jack Chen)
- Specific Aim 5: Build regional collaborations for research and training
  - Mountain West Consortium of IDeA states; led directly to the CTR-IN and a current Montana/Alaska proposal [“American Indian-Alaska Native Clinical Translational Research Center”]
  - Shared access to IDeA Core resources across the Western IDeA states
INBRE CORES

- Administrative Core – PI Brian Barnes
- Developmental Research Core – PI Brian Barnes
- Research Training Core – Core Lead Barbara Taylor
- Bioinformatics Core – Core Lead Janet Johnston
- Renovation/Alteration – Core Lead Cindy Knall
Administrative support for INBRE research includes:

- Administration support for core research activities
- Tracking expenditures overall and forecasting funds for program
- EAC, MAC, and SC meeting coordination
- Extensive program reporting
- Program administration of competitive research pilots, RAs, UGRAs, and travel awards
- Program oversight and compliance
- Program outreach and metric tracking
- Travel support for centrally-funded travel only
- Purchasing for admin core
The Alaska INBRE success is predicated on a strong partnership between Alaska INBRE and the collaborating departments, centers and institutes throughout Alaska. Alaska INBRE funds flow from INBRE to the recipient’s department for expenditure and monitoring. The Alaska INBRE will also monitor expenditures and work with departments to ensure compliance and tracking of INBRE funds for reporting purposes.
DEVELOPMENTAL RESEARCH CORE

“Research capacity will be improved by increasing the efficacy of biomedical faculty through resources that are directly available to support their research and trainees.”

Pilot awards at each campus:
- UAF - ~$400K per year
- UAA - $320K per year
- UAS - $75K per year

Travel awards at each campus for faculty.
- UAF – 18 X $2K
- UAA – 14 X $2K
- UAS - 1 X $2K

Mentor funds for developmental faculty.

Professional development for all faculty.
**RESEARCH TRAINING CORE**

“Research training core will promote training and laboratory research experience for undergraduate and graduate students and postdoctoral researchers in studies of unique Alaskan populations, environment, and contaminant exposures.”

- 10 research assistantships (RAs) paid by ICR
- 10 undergraduate assistantships (URAs) paid by ICR & funding for undergraduate research supplies
- 3 RAs
- Curriculum development
- 1.5 months for curriculum developer
BIOINFORMATICS CORE

“Cutting edge bioinformatics technology is essential for biomedical research. Increasing access to biomedical informatics resources/expertise, off- and on-site, by facilitating a distributed core, will enable training and the use of a biomedical informatics approach in INBRE research.”

• Goal: Provide investigators access to the technical expertise and data management and analysis tools required for competitive, multidisciplinary biomedical research.

• Provide technical support and consulting in bioinformatics, biostatistics, and data management
• Support service contracts and software licenses for appropriate hardware and software
• Support outside services or collaborations
RENOVATIONS & ALTERATIONS

“This alteration and renovation request will provide UAA with improved physical space in the form of a clinical-translational research center (CTRC.)”

- $138,000 in year 1 to reconfigure two rooms on UAA campus to assist in clinical and translational research activities.
• Letters from UA, UAF, and UAA returning 95% of the departmental ICR to the program.
• UAS contributing ~$18K
• Commitment from all MAUs for faculty release time
• Total projected recovery - $675K annually
ICR OBLIGATIONS

• 10 graduate research assistantship = ~$500K
• 10 undergraduate research assistantships = ~$50K
• Equipment, supplies
• External evaluation