Institutional Development Award (IDeA) Program
BIOMEDICAL RESEARCH INFRASTRUCTURE NETWORKS (BRIN)
Directory of Fiscal Year 2001 Awards by State
as of March 2003

IDeA-Eligible States:

Alaska	Kansas	Montana	North Dakota	South Dakota
Arkansas	Kentucky	Nebraska	Oklahoma	Vermont
Delaware	Louisiana	Nevada	Puerto Rico	West Virginia
Hawaii	Maine	New Hampshire	Rhode Island	Wyoming
Idaho	Mississippi	New Mexico	South Carolina	

Alaska BRIN: Contaminants in Subsistence Foods
University of Alaska, Fairbanks - P20 RR16466

This program will unite three main campuses of the state university, 18 rural campuses with high minority populations, and two private colleges. The primary research interest is in contaminants in subsistence foods, and their mediation of disease and dysfunction, particularly with regard to the Alaskan-native population.

http://www.alaska.edu/brin/index.html

molecular biology, cell biology, toxicology, biochemistry, health disparities, public health, minority education

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return to top

Partnerships for Biomedical Research in Arkansas
University of Arkansas for Medical Sciences - P20 RR16460

This program is linking three universities within the state. The infrastructure emphasis is on bioinformatics and biotechnology, in support of programs in genomics and proteomics. Digital microscopy is a featured technology.

http://brin.uams.edu/default-flash.htm

genomics, proteomics, digital microscopy, bioinformatics, biotechnology, cell biology

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return to top

Delaware Biomedical Research Infrastructure Network
University of Delaware - P20 RR16472

The program will establish a network linking all the institutions in the state that offer graduate, undergraduate, or associate degrees in the sciences, with five primary partner institutions. Centralized research instrumentation is a specialty core. Protein structure and function, cellular and extracellular structural biology, molecular interactions, and genomic and metabolic organization are research priorities, all with special needs in bioinformatics.

http://www.dbi.udel.edu/brin.html

molecular biology, cell biology, structural biology, genomics, metabolism, bioinformatics, instrumentation

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return to top

Hawaii State Biomedical Research Infrastructure Network
University of Hawaii - P20 RR16467

This program's goal is the establishment of a virtual campus to be made available to other institutions in the state, including five campuses of the state university, and nine other universities, colleges and research centers. The virtual campus will foster a general increase in the level of access to information in biomedical research. There will also be support for a shared facilities core, and establishment of a state-wide bioinformatics network.

http://www.brin.hawaii.edu

bioinformatics, education, networking, science outreach

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return to top

Biomedical Research Infrastructure Network in Idaho
University of Idaho - P20 RR16454

This program links three universities within the state and another in Wyoming, with the goal of creating the infrastructure necessary to enhance competitiveness in biomedical research and to create a pipeline to graduate education. The research theme is cell signaling, with proteomics and genomics as the tools. These institutions will build a shared molecular genomics research network as an integral part of a program of faculty and student mentoring.

http://www.uidaho.edu/brin

proteomics, genomics, cell signaling

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return to top

Kansas Biomedical Research Infrastructure Network
University of Kansas Medical Center - P20 RR16475

This program links four research universities, five undergraduate campuses and a tribal college. The goals are to establish ongoing programs to inspire outstanding undergraduate students to pursue careers in biomedical research, increase communication among the schools in the state, establish a bioinformatics technology infrastructure, and strengthen the research environment of the science faculty.

http://www.kumc.edu/kbrin/

education, communication, bioinformatics, biotechnology, shared instrumentation, minority education

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return to top

Kentucky Biomedical Research Infrastructure Network
University of Louisville - P20 RR16481

A collaborative network of 13 universities and colleges in the state will be formed. The primary theme is in gene-based research and the bioinformatics infrastructure needed to support it. Program goals are to develop the capacity for basic biomedical research of the member institutions through collaborative interactions, build the infrastructure needed for gene-based research, promote the education of undergraduate students in the areas of gene-based research and bioinformatics technology, and provide support for graduate programs in biomedical research.

http://www.kbrin.louisville.edu

genomics, bioinformatics, education, shared instrumentation

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return to top

Louisiana Biomedical Research Network
Louisiana State University - P20 RR16456

This program will create links between departments within one university. The research theme is bioinformatics, with overlaps between computer science, biology, physics, and engineering, for high-performance computing, 3-D imaging, and virtual environments. The institution is establishing a program to offer a dual degree of a Ph.D. in a biomedical field and an M.S. in computer science.

http://lbrn.lsu.edu/

high-performance computing, imaging, bioinformatics, computer science, biology, physics, education

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return to top

Biomedical Research Training in Maine in Comparative Genomics
Mount Desert Island Biological Laboratory - P20 RR16463

This program will link six institutions within the state. The research theme is comparative functional genetics and genomics. Comparisons of gene sequences and functions between aquatic species, mice, and humans will provide new insights into mechanistic interactions between environmental stressors and disease susceptibility.

http://www.brinme.net

genomics, comparative genetics, environmental stress, disease

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return to top

Mississippi Functional Genomics Network
University of Southern Mississippi - P20 RR16476

A network will be established among five graduate university campuses and six undergraduate institutions, some of which are historically Black. The goal of this program is to establish a network in functional genomics, with research emphases in gene sequencing, analysis of gene expression patterns, and drug discovery strategies. These fields require techniques and highly specialized instrumentation in high-through-put DNA sequencing, imaging, cell biology, proteomics, genomics, and pharmacogenetics, all of which make special demands on bioinformatics.

http://www.usm.edu/mfgn/

genomics, proteomics, cell biology, pharmacogenetics, drug discovery, bioinformatics, minority education

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return to top

Montana Network for Biomedical Research Opportunities
Montana State University (MSU) and University of Montana (UM) - P20 RR16455

This program is designed to increase interactions among 11 institutions, which include different campuses of MSU and UM, and seven tribal colleges. A central facilities core will be established which will provide both local and remote access to transmission and scanning electron microscopy. There will also be a focus on disease and environmental health issues that are specific to Montana. The funding will improve electronic communication and direct networking in a state that has huge distances and a small population.

http://brin.montana.edu/

disease, public health, computational biology, neuroscience, scanning electron microscopy, transmission electron microscopy, communication, networking, minority education

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return to top

Nebraska Training Network in Functional Genomics
University of Nebraska Medical Center - P20 RR16469

This program is linking the lead institution with five undergraduate institutions within the state. The projects will develop the resources and infrastructure to support research in functional genomics and proteomics. Research teams will be composed of faculty and students, with a BRIN scholarship program supplying the funds for the undergraduate research. Computing services, electronic networking, genetic sequence analysis, molecular modeling, database mining, and information retrieval from the National Library of Medicine will all be supported.

http://www.unmc.edu/brin

genomic, proteomics, informatics, education, computing, networking

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return to top

Nevada Biomedical Resources Infrastructure Network
University of Nevada, Reno - P20 RR16464

This program will link two universities within the state. Research to be supported combines cancer research, cytometry, genomics and proteomics, and biomolecule modeling. The program goal is to build an administrative and physical infrastructure that will encourage a culture of resource sharing, mentoring, and collaboration. A multi-functional network which will interconnect a group of open technology centers will be created.

http://www.unr.edu/brin/

cancer, cell biology, genomics, proteomics

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return to top

Center for Structural Biology
University of New Hampshire - P20 RR16459

This program is linking a doctoral granting institution with three in-state colleges, with additional liaisons extending to pharmaceutical companies and public educational outreach. The research theme is in structural biology, from genomics to function, with emphasis on establishing bioinformatics and proteomics infrastructure.

http://brin.unh.edu/

genomics, proteomics, structural biology, bioinformatics

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return to top

New Mexico Biomedical Research Infrastructure Network
New Mexico State University - P20 RR16480

This program will create a partnership among all six of the universities in the state, to share infrastructure and enhance research capacity. Goals of the program are to foster active scientific and intellectual interactions among faculty and students, provide access to information resources and training opportunities, foster the development of junior faculty and students, coordinate resources among the participating institutions, and improve facilities at each of the institutions according to their specific needs.

http://brin.nmsu.edu/

education, shared instrumentation

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return to top

Building Biomedical Research in North Dakota
University of North Dakota - P20 RR16471

This program will link the two state universities, four undergraduate institutions, and five tribal colleges. Research cores include bioinformatics and start-up instrumentation. A biology and chemistry network for molecular modeling is a research priority. Inclusion of tribal colleges is emphasized through a science program core directed at these institutions. Large distances separating the institutions make modern methods of long-distance communications a necessity.

http://medicine.nodak.edu/brin

bioinformatics, instrumentation, molecular modeling, communications, videoconferencing, education, minority education

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return to top

Oklahoma Biomedical Research Infrastructure Network
University of Oklahoma Health Sciences Center - P20 RR16478

The network will include five graduate and three undergraduate institutions, including a historically Black college and a college with the highest in the nation enrollment of Native American students. Functional genomics is the focal research activity of this program, along with the bioinformatics network needed to support it. A functional magnetic resonance imager will substantially enhance research capacity in the neurosciences.

http://www.okbrin.org

neuroimaging, genomics, education, minority education

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return to top

Biomedical Research Infrastructure Network - Puerto Rico
University of Puerto Rico - P20 RR16470

The program will link five campuses of the University of Puerto Rico and five other universities within the territory. Neuroscience, mental health, and medical biotechnology are the areas receiving highest attention with this support. An upgraded connectivity to the Internet and Internet2 will be made possible.

http://brin.hpcf.upr.edu/

bioinformatics, computing, Internet2, neuroscience, mental health, biotechnology, minority education

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return to top

Enhancement of Biomedical Research in Rhode Island
University of Rhode Island - P20 RR16457

Two doctoral degree-granting institutions in Rhode Island and Delaware will be linked with four undergraduate colleges, one of which is a minority institution. Funds are to support infrastructure for research sub-cores in functional genomics, chemical carcinogenesis, toxicology, biomedical engineering, natural products, and behavioral modification. Understanding the impact of environmental factors on public health and disease is the ultimate goal.

http://www.uri.edu/brin

genomics, cancer, toxicology, public health, behavior modification, minority education

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return to top

South Carolina Biomedical Research Infrastructure
University of South Carolina - P20 RR16461

This program will provide for faculty expansion at three graduate research universities in the state, more interactions with three undergraduate institutions near the research universities, and outreach to the 24 remaining colleges in the state. Infrastructure for bioinformatics is featured, and the goal of the program is to provide access to resources of all kinds for biomedical research within the state.

http://brin.sc.edu/

bioinformatics, instrumentation, chemistry, biology, education

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return to top

South Dakota Biomedical Research Infrastructure Network
University of South Dakota - P20 RR16479

The lead institution will be linked with three other institutions, one of which is a tribal college. The major goal is the creation of a centralized research facility in cellular growth control, using the tools of proteomics and genomics. This necessitates strengthening the bioinformatics and electronic communication capabilities of the network institutions, development of a website, and production of learning modules for remote education. Recruitment and career development of faculty, graduate students, and undergraduate students are additional goals.

http://www.usd.edu/brin/

cell biology, proteomics, genomics, bioinformatics, communication, networking, education, minority education

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return to top

Vermont Biomedical Research Infrastructure Network
University of Vermont - P20 RR16462

The lead institution already has a well-established genetics program with 75 faculty members. This funding will expand the research capacity of the genetics program and establish a Web page to make this program accessible to four undergraduate institutions in the state. Program goals are to increase the competitiveness of the new genetics faculty at the participating institutions; increase the number of undergraduates who pursue careers in biomedical sciences; create, support, and sustain, the human network through electronic communications; provide a new bioinformatics capability within the state; and increase the diversity of biomedical scientists.

http://www.uvm.edu/~biology/vgn/

genetics, bioinformatics, education, communications

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return to top

West Virginia Biomedical Research Infrastructure Network
Marshall University and West Virginia University - P20 RR16477

This program is the result of the merger of two independent initiatives from these institutions. The joint effort will target the development and enhancement of biomedical research training at eight predominantly undergraduate institutions throughout the state. The lead institutions will coordinate the development of a focused research and training program in cellular and molecular biology, with a particular emphasis in cardiovascular disease. A major component of this program will be the Appalachian Cardiovascular Research Network (ACoRN), to study the genetic basis of premature cardiovascular disease in a medically underserved rural population that is at unusually high risk of this disease. The plan is to identify families at high risk, collect relevant data, and identify genes involved, through genetic mapping, genomics, and bioinformatics. ACoRN will provide a unique and practical resource for the undergraduate institutions to apply their developing interests and expertise.

http://www.wv-brin.org/

cardiovascular disease, public health, genomics, genetics, bioinforma tics, molecular biology, cell biology

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return to top

UW Northern Rockies Regional BRIN
University of Wyoming - P20 RR16474

This program integrates research and education across departments, disciplines, and colleges, throughout the University of Wyoming. The network includes three community colleges, the University of Idaho, the University of Montana, and family practice medical centers. The goal is to increase opportunities for sharing instrumentation and giving students within the state exposure to biomedical research and clinical outreach.

http://www.uwyo.edu/brin

education, instrumentation, outreach, public health

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return to top