

NIBIB Status and Directions

Sixth Annual Bioengineering Research
Partnership Grantee Meeting
July 13-14, 2006



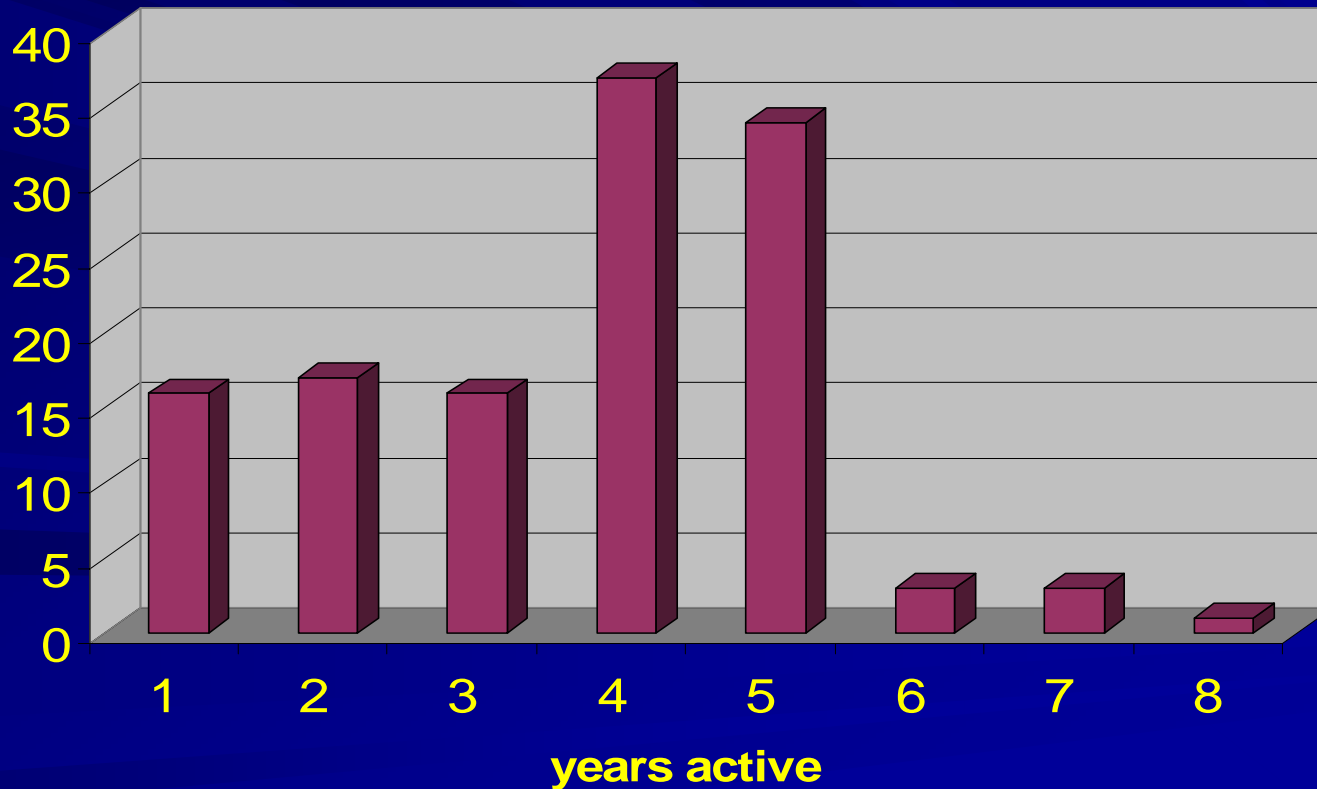
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Associate Director for Extramural
Science Programs
NIBIB



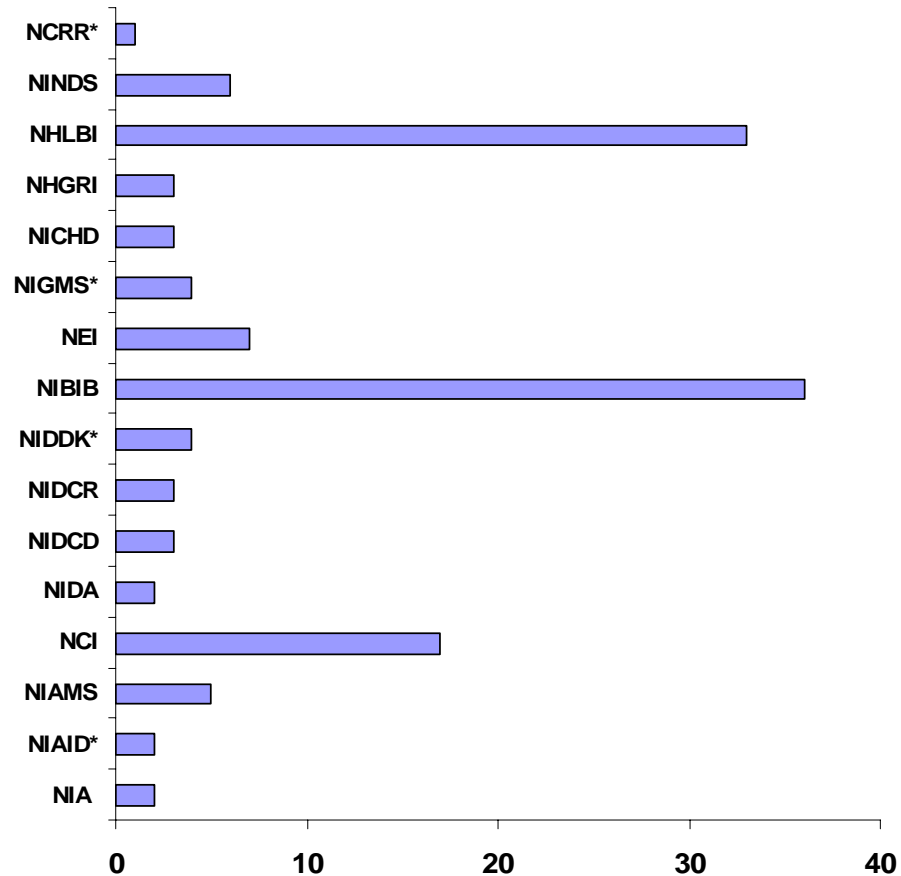
NIH

- Over 130 Current BRP Projects
- More than \$120 million

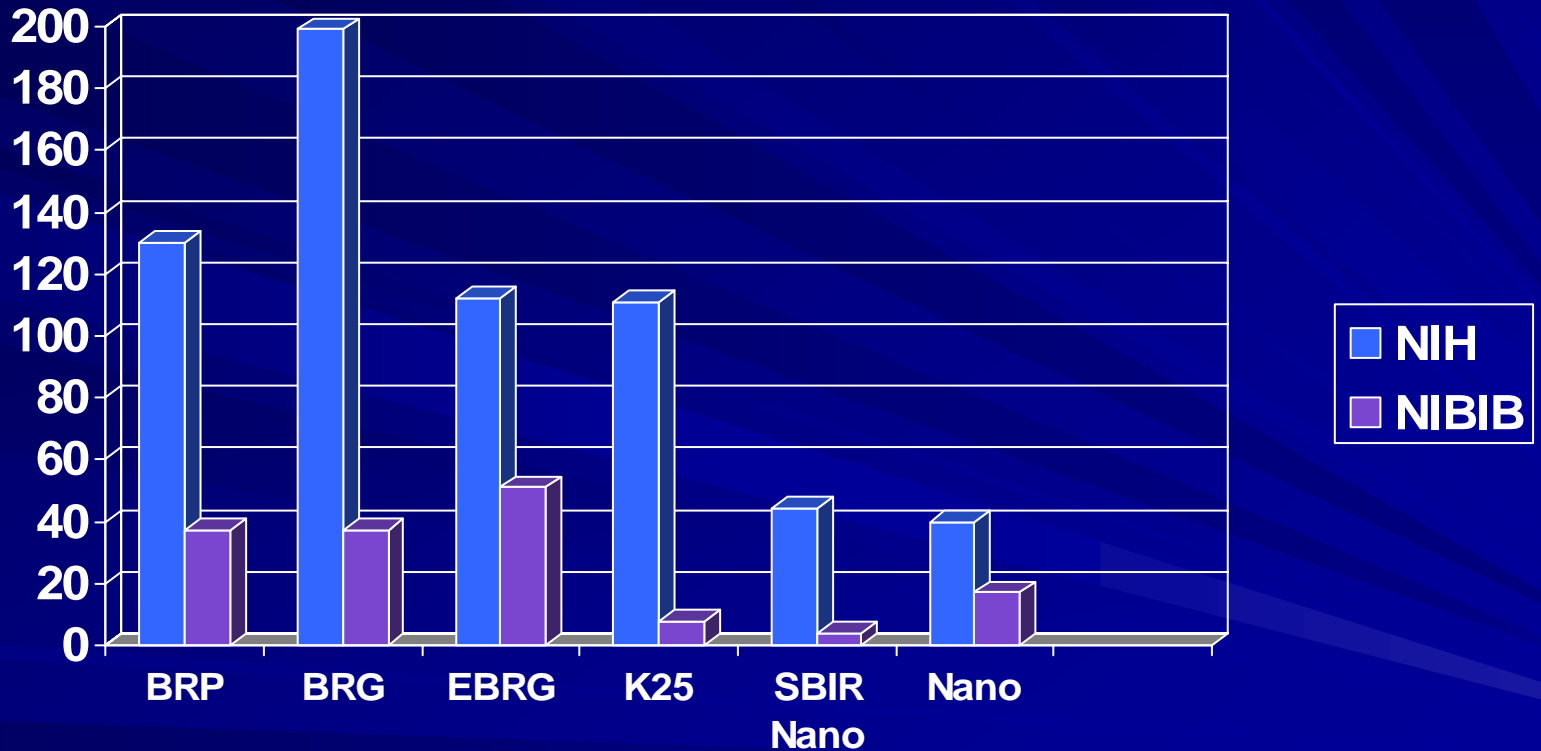
Number of awards



Institutes Funding BRP Projects



Other BECON Initiatives



FY2005 Data

Current BRP Announcement

■ PAR06-459

- 13 Participating Institutes
- Letters of Intent Receipt Date(s): August 20, 2006 and December 20, 2006
- Application Receipt Date(s): September 20, 2006 and January 22, 2007
- Peer Review Date(s): February- March, 2007 and June-July, 2007
- Council Review Date(s): May-June, 2007 and September-October, 2007

Current BRP Announcement

- One significant change is institute specific financial guidelines
- NIBIB has instituted a \$750,000 direct cost maximum
- http://www.becon.nih.gov/becon_brpareas.htm - more information on any institute specific scientific interest areas or budget requirements.

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http://www.becon.nih.gov/becon_brpareas.htm

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BIOENGINEERING RESEARCH PARTNERSHIP FOCUS AREAS

April 14, 2006

Some of the NIH Institutes and Centers (ICs) participating in the Bioengineering Research Partnership (BRP) program announcement have indicated that they will only consider BRP applications in specific focus areas. The following text provides a list of BRP application focus areas for these IC's. The list will be updated as necessary to reflect changing IC needs.

Bioengineering Research Partnership Guidelines for the NIBIB

Applicants planning to submit a Bioengineering Research Partnership (BRP) application to the NIBIB with direct costs of \$500,000 or more are reminded that they must seek written agreement from the NIBIB staff at least 6 weeks prior to the application receipt date. Applicants are encouraged to contact the NIBIB staff well in advance of the 6 week deadline to discuss their planned application.

Due to the large number of BRP applications that the NIBIB receives, effective immediately, the NIBIB will only accept new or competing renewal BRP applications with direct costs less than \$750,000 unless prior approval has been obtained from a subcommittee of senior staff. NIBIB will consider only applications that are directly relevant to the NIBIB mission (<http://www.nibib.nih.gov/publicPage.cfm?pageID=1564#Mission>).

Areas of high programmatic interest include:

- intelligent systems design and smart modeling
- enabling nanotechnologies for designed drug and gene delivery vehicles
- *in vivo* optical imaging
- activatable imaging agents
- multiscale modeling in biomedical systems
- sensor and lab-on-a-chip devices for point-of-care testing

Funding, Training, and Policies

[Home](#) » [Funding, Training, & Policies](#) » [NHLBI Grants and Contracts](#)

Bioengineering Research Partnership NHLBI Focus Areas: [PAR-06-459: Bioengineering Research Partnerships \(BRP\) \[R01\]](#)

Contact:

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Potential applicants are advised of the following policy regarding BRP applications for the NHLBI:

NHLBI will participate in this announcement through the May 2007 receipt date. NHLBI requires that applications requesting \$500,000 or more in direct cost in any year receive prior written approval by the NHLBI before the application will be accepted for review. NHLBI will consider only applications that are directly relevant to its mission: <http://www.nhlbi.nih.gov/about/org/mission.htm>. Letters of request must be received by the NHLBI six weeks prior to the application receipt date. Guidelines for requesting approval can be found at: <http://www.nhlbi.nih.gov/funding/policies/500kweb.htm>.

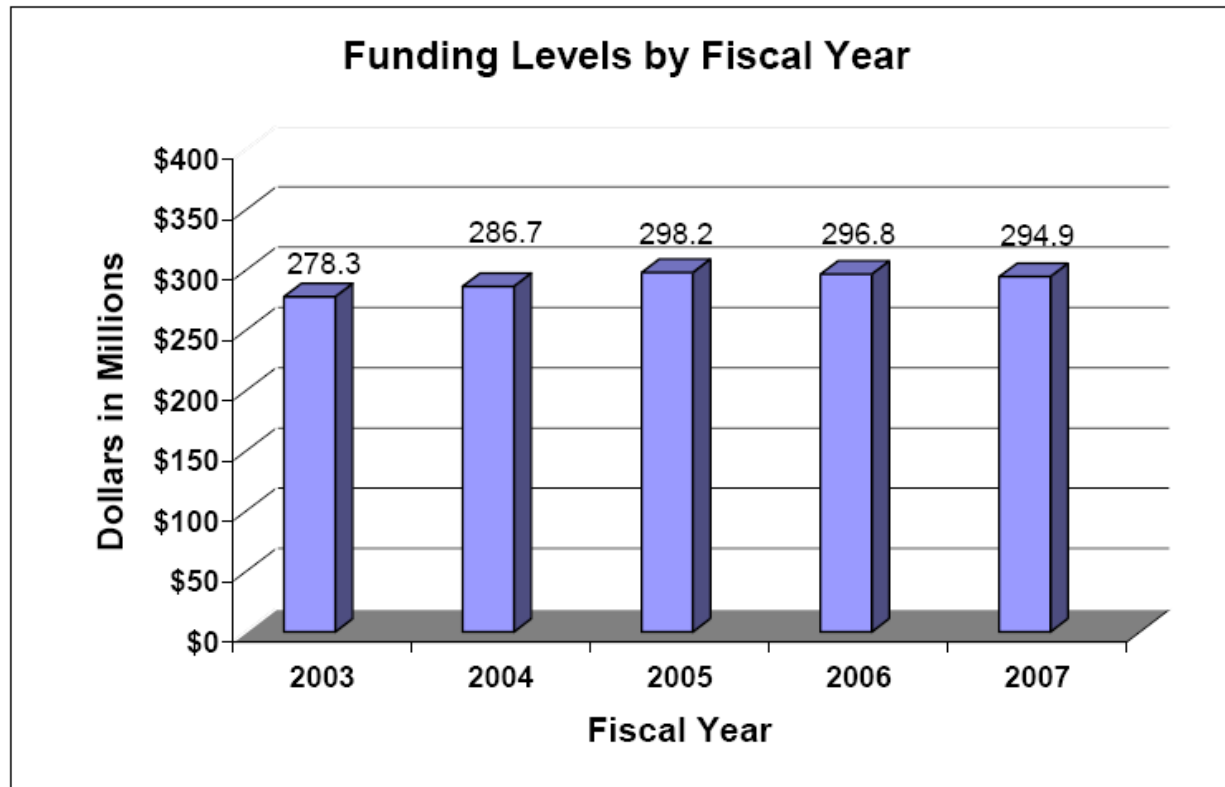
Areas of high programmatic interest include, but are not limited to:

- Imaging technology (NMR, MRI, ultrasound, and other imaging modalities) for specialized heart, lung, blood, and sleep applications
- Imaging agents and probes targeted to the heart, lung, blood, and sleep system
- Hardware and software development for heart, lung, blood and sleep-specific applications e.g., cardiac motion correction, 3D visualization of vascular anatomy, breathing, and blood flow
- Biological substitutes or complex tissue constructs for the treatment of heart, lung, blood and sleep diseases, including congenital defects
- Cell-based treatments guided by natural and compatible synthetic biomaterials
- Medical devices for diagnosing and treating heart, lung, blood and sleep diseases and disorders
- Analysis of data retrieved from implanted devices for the purpose of improving the treatment of heart, lung, blood and sleep diseases, host response, and development of appropriate animal models for testing heart, lung, blood and sleep devices

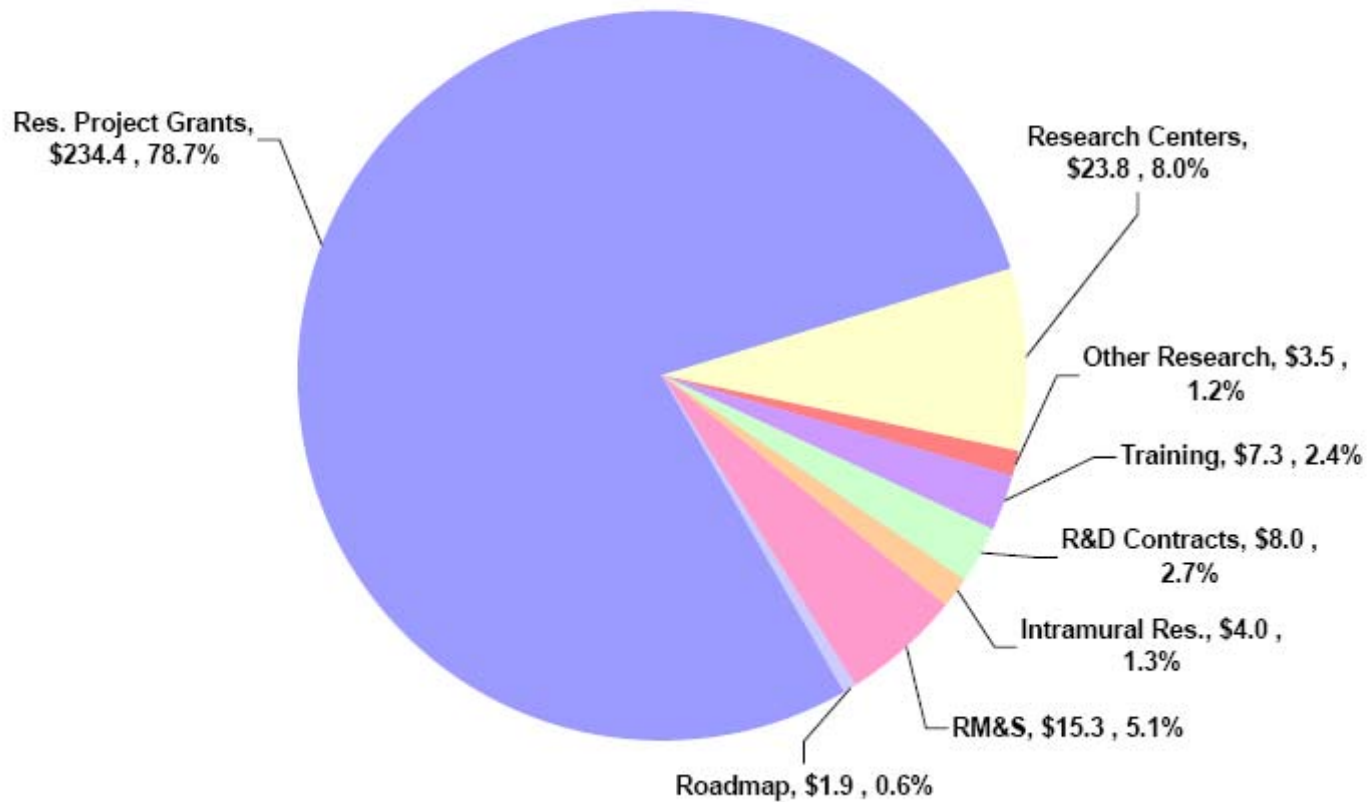
NIBIB

- 36 NIBIB BRP Projects
- More than \$32 million
- About 14% of the NIBIB RPG budget
- 25 - 30% of the BRPs

NIBIB Funding

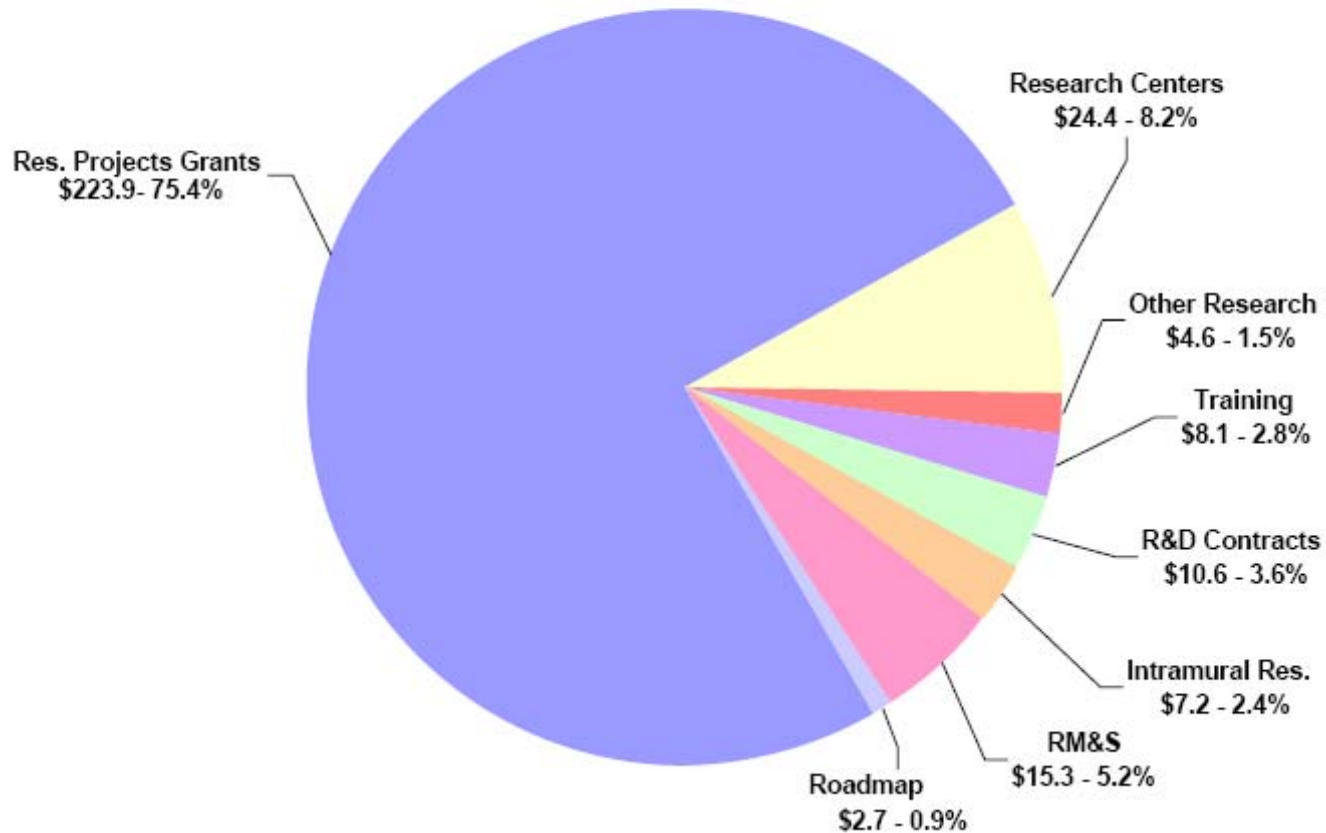


FY 2005 ACTUAL- \$298.2
With Roadmap
(\$ in millions)



Pie Chart – FY 2005 - \$298.2 M

FY 2006 CONFERENCE - \$296.8
With Roadmap
(\$ in millions)



Pie Chart – FY 2006 - \$296.8 M

COFUNDS EB PRIMARY

(Other IC Contributions)

(\$000)

IC	Grant Count	Total \$ Awarded
OD	16	9,043
NCMHD	8	2,123
NINDS	9	1,033
NIDDK	4	573
HICHD	3	311
NCRR	1	260
NIMH	3	229
NIA	2	148
NCI	6	29
NHGRI	2	10
NIDCD	1	8
NIEHS	1	5
NIAMS	1	3
Grand Total	57	13,774

Co-funds NIBIB Primary – FY 2005



Five Year PJ

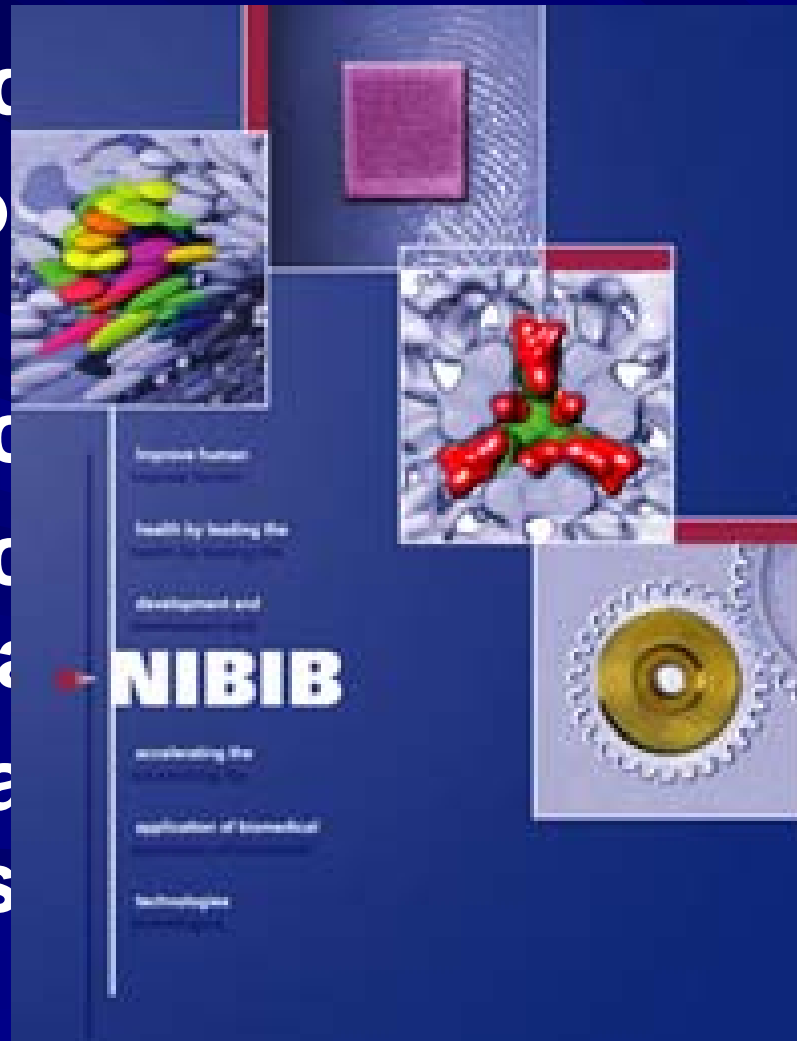
- Image-guided interventions
- Molecular imaging
- Sensors and microsystems
- Nanotechnology and drug delivery
- Tissue engineering
- Interdisciplinary training

Key Strategies

- **Set priorities** based on scientific merit, scientific opportunities, public health needs, and mission .
- **Encourage team science** training in interdisciplinary research .
- **Leverage funds and resources** through joint ventures, including other agencies and industry.
- Identify and support a number of large-scale, **high-impact projects**
- **Promote validation**, evaluation, and effectiveness studies by including these as objectives in initiatives
- **Promote entrepreneurial** training opportunities for students and academic researchers.

Grantsmanship Workshops

- First held in 1980
- Plan about 100 workshops per year
- Scientific and programmatic
- Scientific and programmatic policies and procedures
- Individual and group sessions



5
shops per
/NIH
making
the NIH
over
gram staff

The NIBIB Staff



Contacts

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