

NIBIB and Trans-NIH Research Opportunities

**National Institute of Biomedical
Imaging and Bioengineering**



The National Institutes of Health



Much of the biomedical research in the United States is supported by the Federal Government, primarily the National Institutes of Health (NIH)



Biomedical Research at the NIH

- **Multi-disciplinary approaches** – Applying principles and methods from the quantitative sciences and engineering to address problems in biology and medicine.
- **Partnerships and collaboration** – Multi-disciplinary and multi-organizational teams
- **Design- and technology-driven research** in addition to hypothesis-driven
- **Technology transfer** – Discovery-to-patient-to-product (bench-to-bedside-to-practice)



Common Grant Mechanisms

- R01-standard investigator-initiated grant
- R21-exploratory/developmental grant
- R21/R33-phased transition award
- P01-program project grant
- P41-research resource center
- P20-center planning grant
- P50-center grant
- Etc.



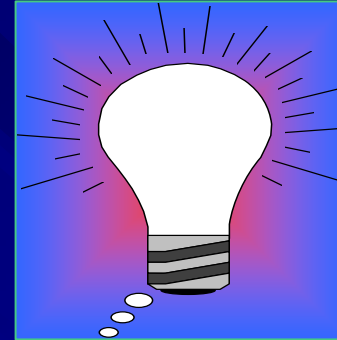
SBIR/STTR Program

PHASE I

Feasibility Study

\$100K and 6-month (SBIR)

or 12-month (STTR) Award

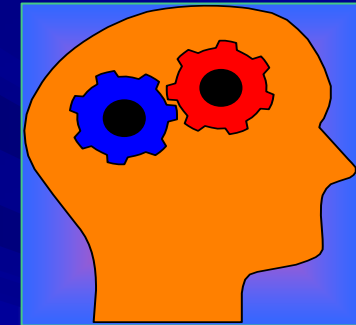


PHASE II

Full Research/R&D

\$750K and 2-year Award

(SBIR/STTR)



PHASE III

Commercialization Stage

Use of non-SBIR/STTR Funds



NIBIB Mission

Improving human health by leading the **development and accelerating the application of biomedical technologies.**

The Institute is committed to **integrating the physical and engineering sciences with the life sciences** to advance basic research and medical care.



A big challenge for the NIBIB is promoting multidisciplinary research



1. Clinicians, biologists and engineers speak in different languages
2. Clinicians and biologists may not know what is technically possible; engineers may not know the biomedical problems.
3. Continued, ongoing collaboration essential



Current NIBIB Grant Portfolio Areas

- Biosensors
- Biomaterials
- Biomechanics
- Bioinformatics
- Computational Biology
- Drug & Gene Delivery
- Medical Devices & Implant Science
- Nanotechnology
- Neuroprosthesis & Neuroengineering
- Platform Technologies
- Rehabilitation Engineering
- Surgical Tools & Techniques
- Tissue Engineering

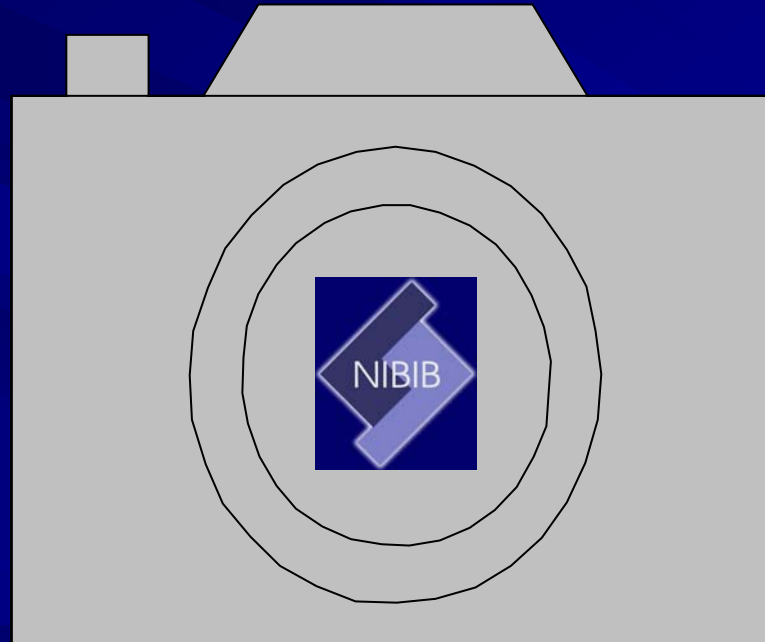


Current NIBIB Grant Portfolio Areas

- Imaging Agents & Molecular Probes
- Image Displays
- Image Guided Therapies & Interventions
- Image Perception
- Image Processing
- Magnetic, Biomagnetic & Bioelectric Devices
- Magnetic Resonance Imaging & Spectroscopy
- Nuclear Medicine
- Optical Imaging & Spectroscopy
- Telemedicine
- Ultrasound and Acoustics
- X ray, Electron & Ion Beam



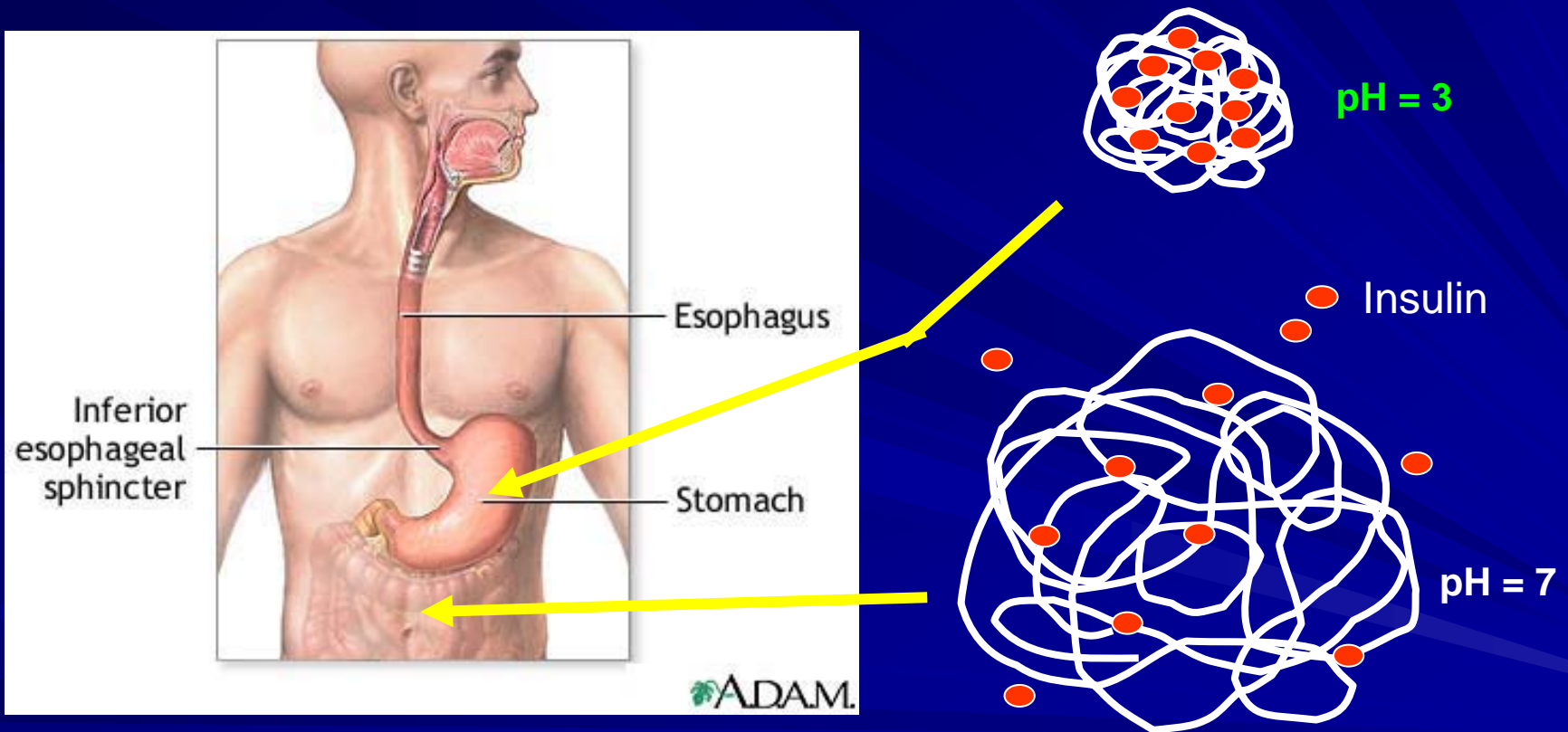
Snapshot of funded NIBIB grants



DRUG DELIVERY

Development of a pH Sensitive Complex Hydrogel for Oral Protein (Insulin) Drug Release

Nicholas A. Peppas, Ph.D., UT Austin



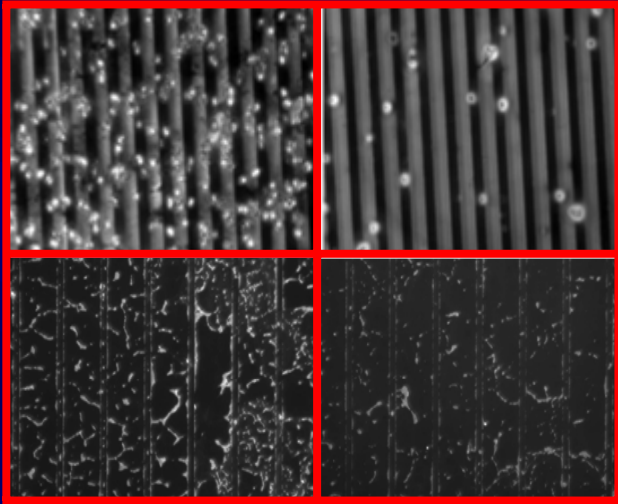
<0.1% of insulin taken orally retains activity by the time it reaches the blood stream. This investigator is developing a pH responsive hydrogel that at low pH is in a collapsed conformation that protects the proteins in passage thru the stomach and as the pH rises in the intestines, the hydrogel swells and releases the protein where it can be absorbed into the blood stream.

Improving Biocompatibility of Implanted Medical Devices

Mark Schoenfisch, R01-EB-708-3, Jose Joseph, R21-EB-1645-2
John Frangos, R01-EB-823-3

Without NO

With NO



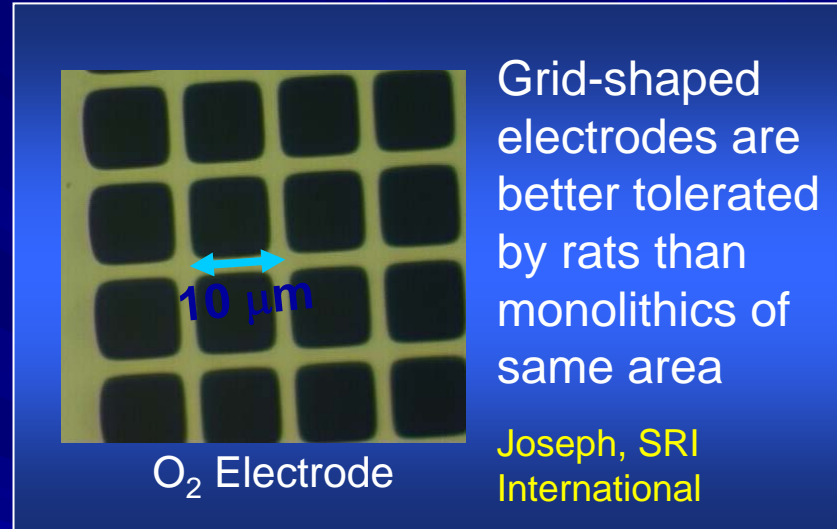
Porcine platelet adhesion control for glucose sensors

Pseudomonas Aeruginosa biofilm control

protective sol gel grids over sensor
Schoenfisch, UNC Chapel Hill

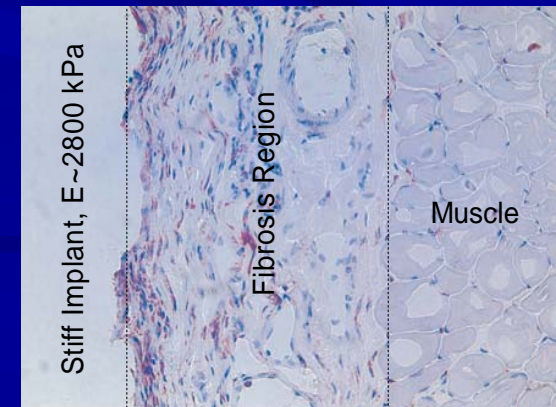
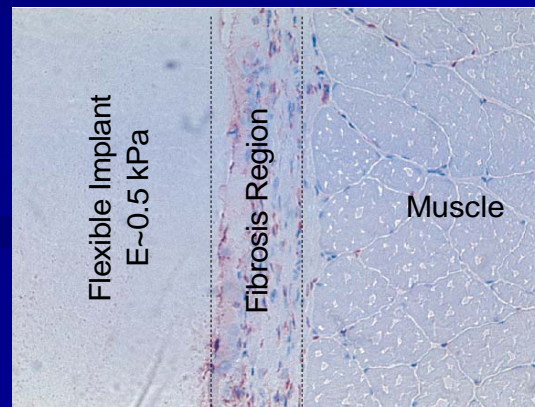
Flexible hydrogel implants cause far less fibrosis and inflammatory response in rat rectus muscle

Frangos, La Jolla Bioengineering Institute



Grid-shaped electrodes are better tolerated by rats than monolithics of same area

Joseph, SRI International



Biosensors

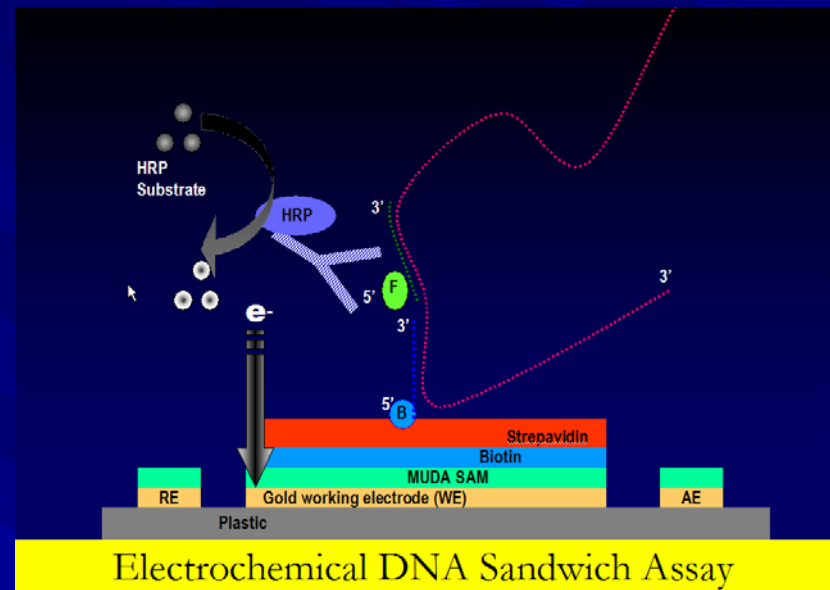
The UCLA Urosensor

Joseph Liao, MD, David Haake, MD, Bernard Churchill, MD (PI)

Goal: Development of a microfluidic, point-of-care device for rapid detection of bacteria which cause urinary tract infections. Very prevalent in children with spina bifida

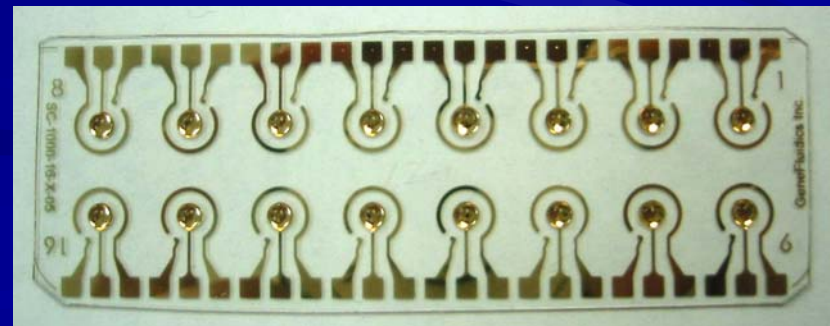
FEATURES:

- Team of clinicians, engineers and microbiologists.
- Electrochemical-based sensor
- RNA target
- Rapid and sensitive detection (5 min. assay)



Electrochemical DNA Sandwich Assay

16 sensor array



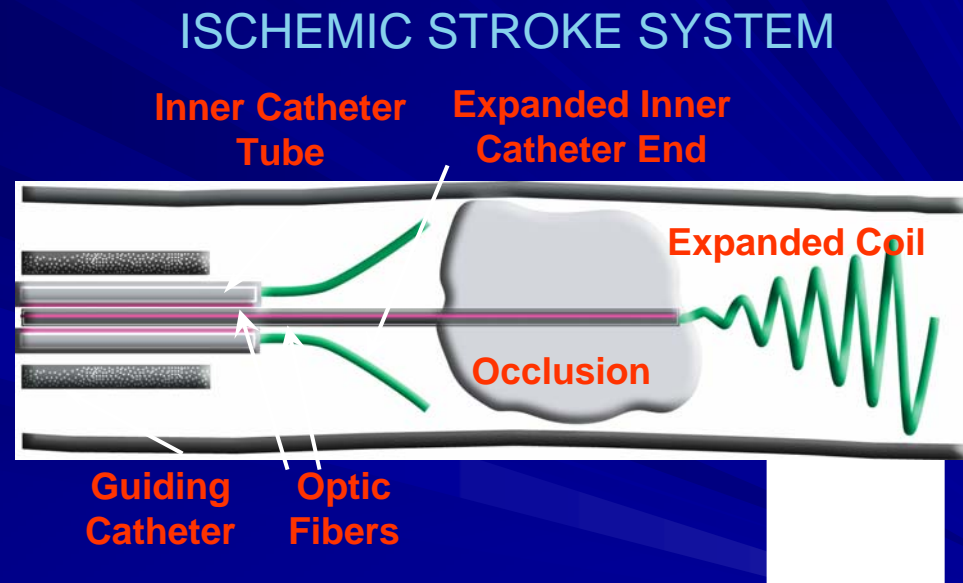
SURGICAL TOOL DEVELOPMENT

Development of a Shape Memory Polymer Device for Treating Stroke

Duncan Maitland, PhD

Lawrence Livermore National Laboratory

- Mechanical clot extraction catheter with shape memory fiber attached to optical fibers
- When laser turned on, polymer transitions from straight shape to coiled shape.



***NIBIB Bioengineering
Research Partnership***



Explanted Vascular Beds as a Scaffold for Complex Tissue Engineering

Geoffrey Gurtner, NYU School of Medicine

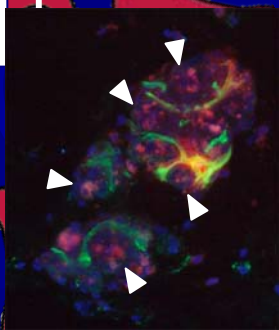


Following 24hr perfusion

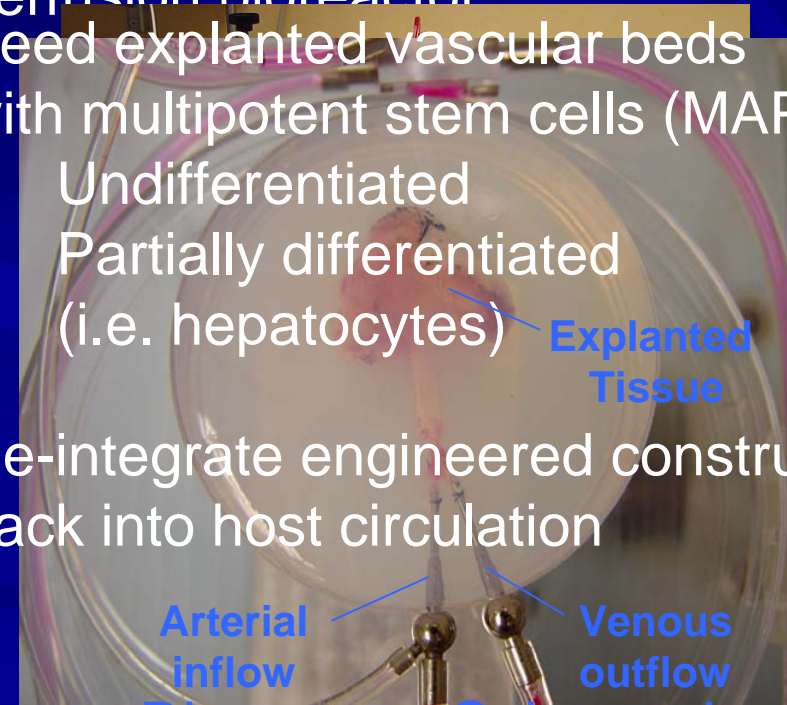


4 days following reimplantation

MAPCs (red) in perivascular clusters (vessels in green)



1. **Sustain** viability of explanted vascular bed (the scaffold) *ex vivo* using a perfusion bioreactor
2. Seed explanted vascular beds with multipotent stem cells (MAPC)
 - Undifferentiated
 - Partially differentiated (i.e. hepatocytes)
3. Re-integrate engineered construct back into host circulation



Explanted Tissue

Arterial inflow

Venous outflow

Bioreactor Setup



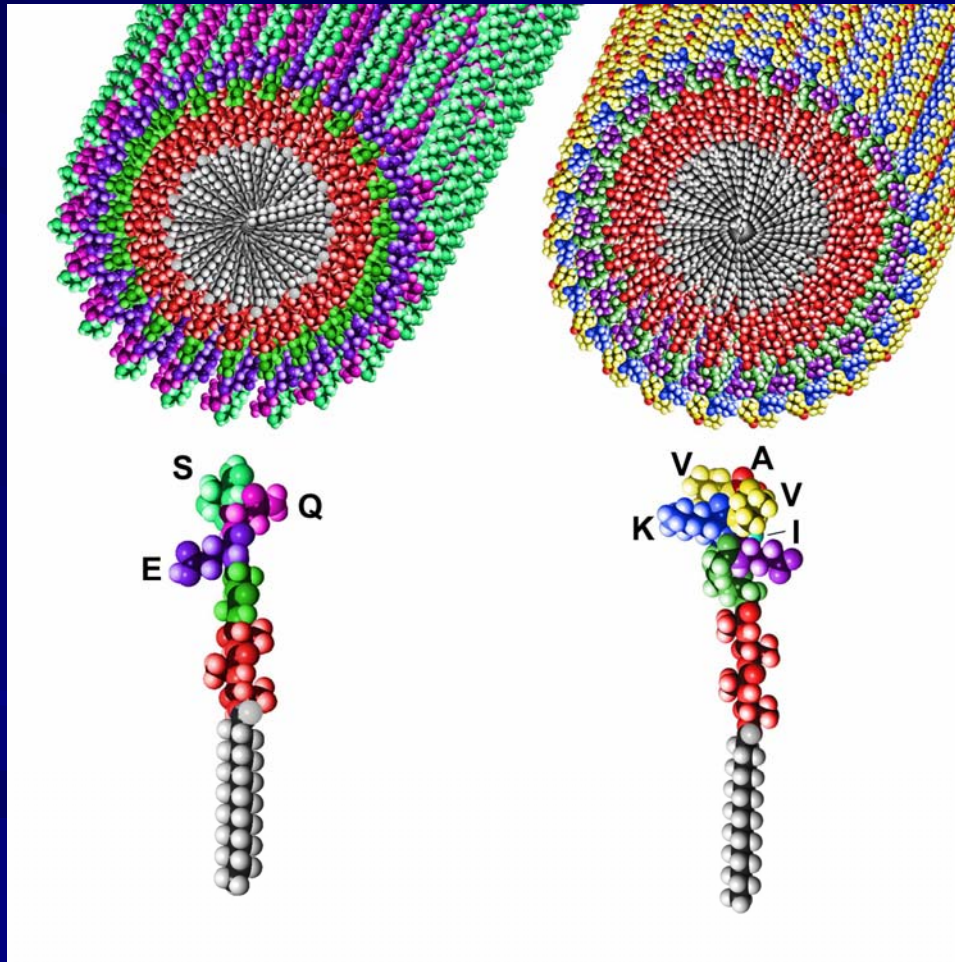
Nanotechnology

Regenerative Scaffold Technologies For CNS & Diabetes

Sam Stupp, PI, Northwestern

Non-bioactive
Nanofiber

Bioactive
Nanofiber



Nanofibers
Customized for
Neural Progenitor Cell
Differentiation

IKVAV epitope known as a neurite sprouting/guiding epitope, present in the extracellular protein laminin

Science 2004



Telehealth

Development of Multi Sensor Fusion Algorithms for Remote Circulatory Monitoring

H. Harry Asada

Massachusetts Institute of Technology

Andrew Reisner

Massachusetts General Hospital



Wearable
Cuff



The MIT Ring
Sensor



Developing a multi-modality wearable ring sensor system, through the development of novel multi-sensor fusion algorithms, to enable long-term, remote circulatory monitoring. The signals are transmitted locally to a PDA then over the internet to the physicians office.

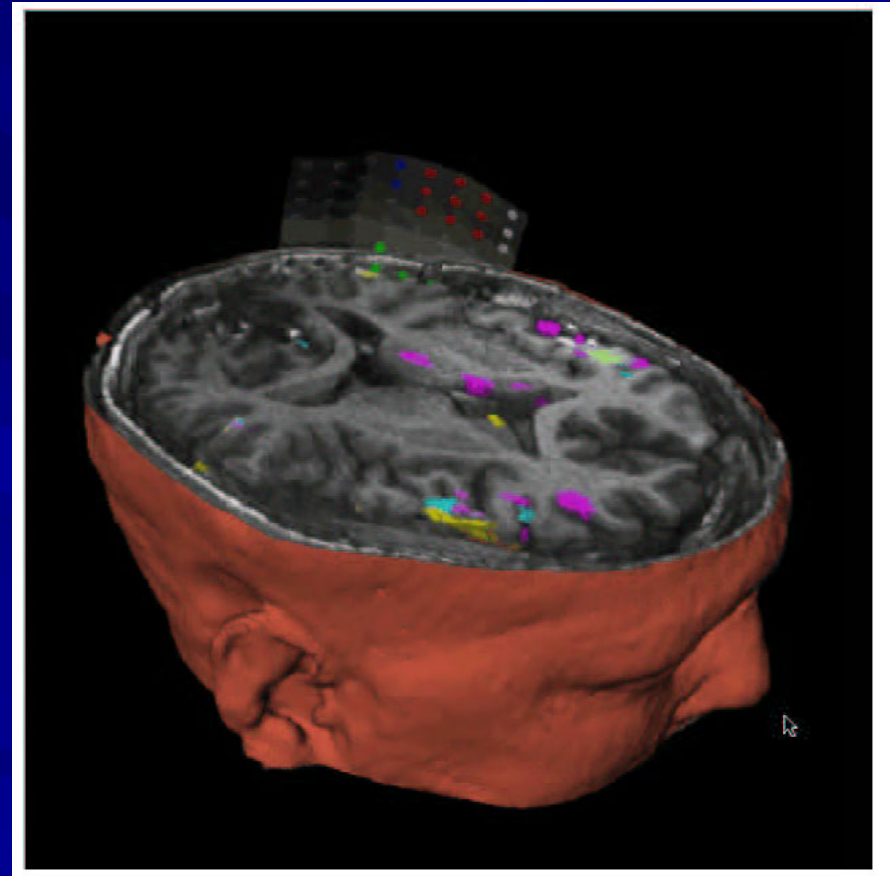
Image-Guided Intervention in Neocortical Epilepsy

Dr. James Duncan, Yale University, R01 EB000473

- Dr. Duncan heads a BRP – (Yale, Albert Einstein College of Medicine, the University of Minnesota, and BrainLAB,) a multidisciplinary team specializing in image-guided surgery.

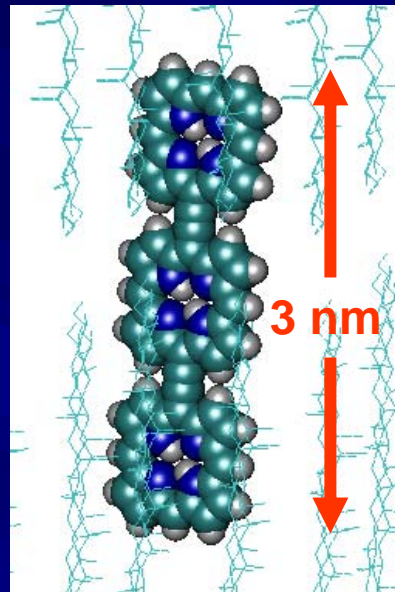
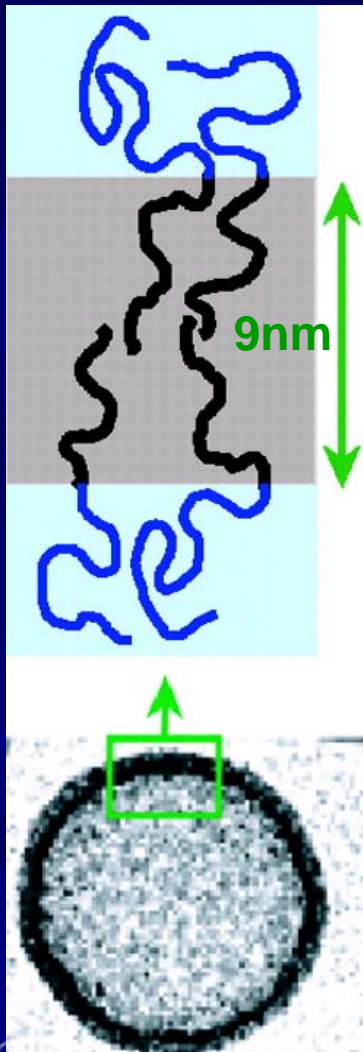
- MRI of a patient's brain. Overlay shows where the brain is active while performing a language task as quantified by fMRI and EEG.

- The integration of this data into a common space is used to identify the epileptogenic tissue and surrounding regions to plan and guide neurosurgery



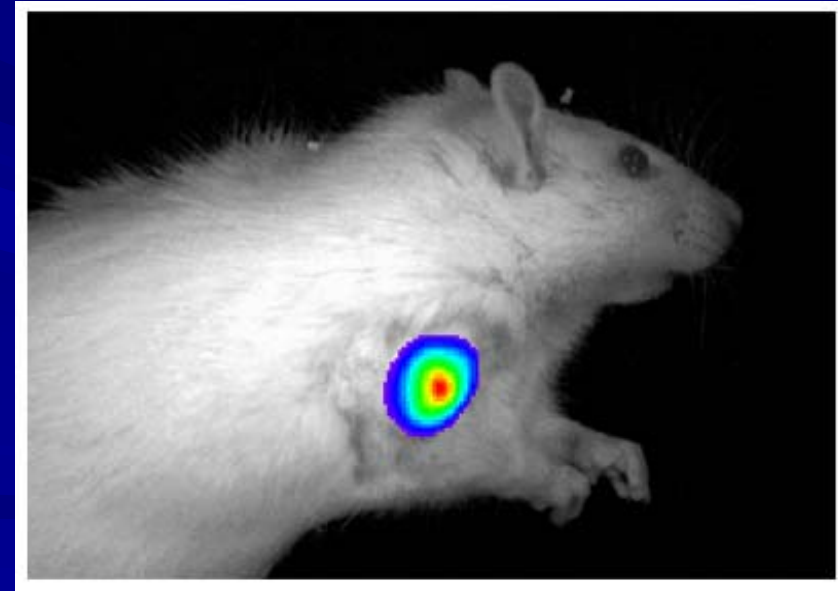
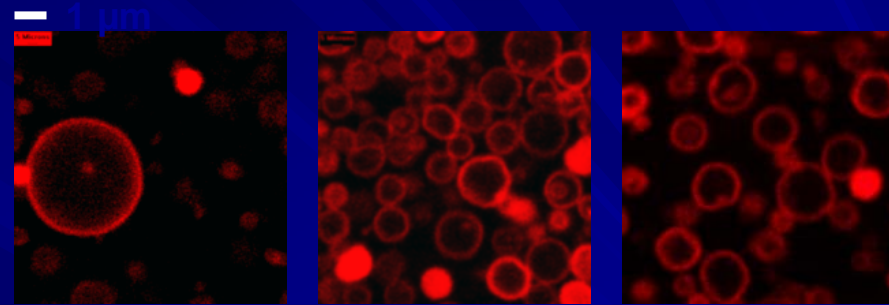
Near-infrared-emissive Polymersomes for In Vivo Optical Imaging

Daniel A. Hammer, Ph.D., U Penn EB003457



Porphyrin Trimer

**Polymersomes:
5% Membrane
Loading with Near
Infrared Fluorophore**



millimeters

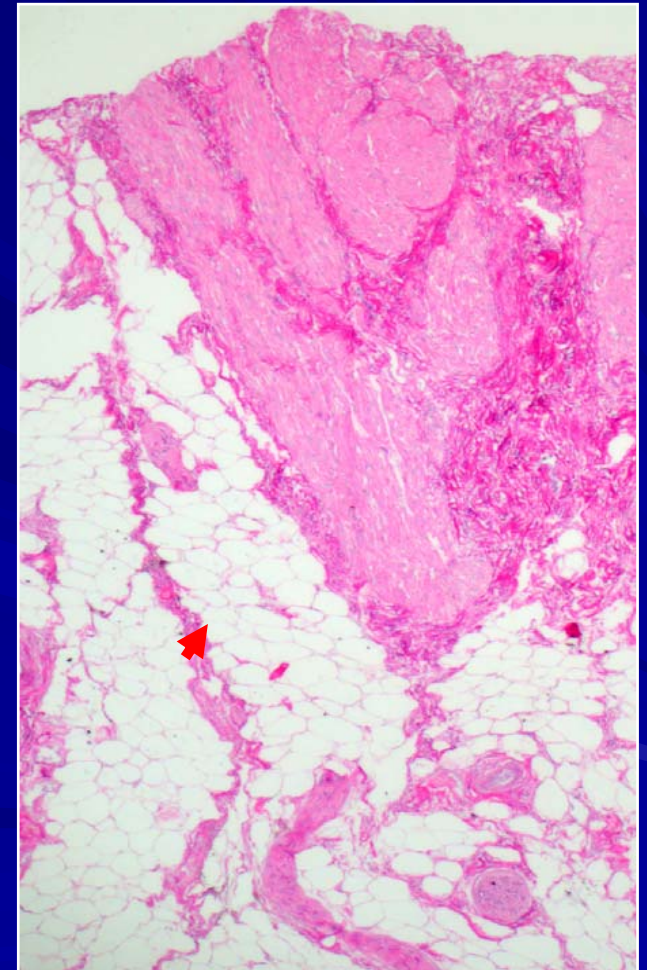
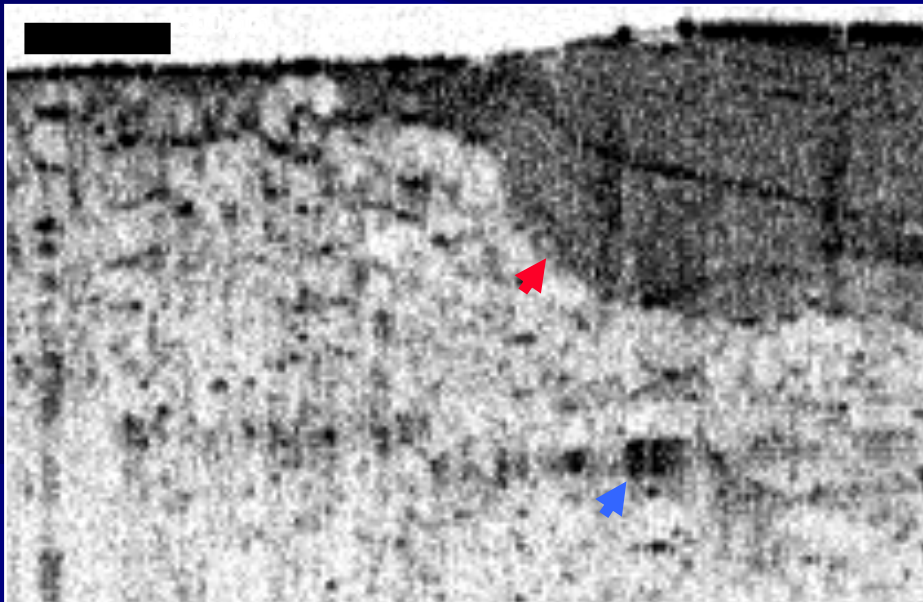
Optical Coherence Tomography for Microsurgical Guidance

R01 EB000419-03

Principal Investigator: Mark Brezinski

Brigham and Women's Hospital, Boston, MA

**Potential application in
guiding prostate resection**





NIBIB and Trans-NIH Funding Opportunities



Research Funding at the NIH

- Information on Web sites – www.nibib.nih.gov and in “NIH Guide” on www.nih.gov
- Targeted solicitations (PA, RFA, etc.) – Public Health Service (PHS) 398 package
- Unsolicited or investigator-initiated applications



Unsolicited Applications

- Also called “Investigator-Initiated”
- Applications that are not in response to specific Program Announcements (PA) or Requests for Applications (RFA)
- Majority of applications received at the NIH are “Investigator-Initiated” or unsolicited
- R01’s are due on February 1, July 1, and October 1
- Contact Scientific Program Staff to ensure that project scope fits mission



Most important are....

investigator-initiated grants

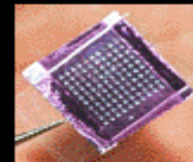
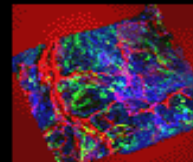
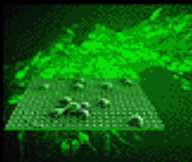
You don't have to fit into an
initiative

....we want to help you get YOUR best ideas
funded



National Institute of Biomedical Imaging and Bioengineering

NATIONAL INSTITUTES OF HEALTH
U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES



Improving health by leading the development and accelerating the application of biomedical technologies

- Research
- Funding
- Training
- Health & Education
- News & Events
- About NIBIB

En Español

Pictures & Videos

For information on funding opportunities, please visit our website!

www.nibib.nih.gov

- ▶ Undergraduate/Graduate
- ▶ Predoctoral
- ▶ Postdoctoral
- ▶ Career-Level
- ▶ Special Populations

▶ Health & Education

- ▶ Publications and Features
- ▶ Health Information
- ▶ Science Education

▶ News & Events

- ▶ Calendar of Events

Quick Links

- ▶ Advisory Council (NACBIB)
- ▶ BECON, BISTI
- ▶ NIH Neurosciences Blueprint
- ▶ NIH Roadmap
- ▶ Policies for Researchers

NIH GUIDE for Grants and Contracts

U.S. Department of Health and Human Services

- Announces NIH Scientific Initiatives
- Provides NIH Policy and Administrative Information
- Available on the NIH Web Site :
<http://grants1.nih.gov/grants/guide/index.html>
- Emailed to you each Friday, sign up now!



- [Extension of Bioengineering Research Grant \(BRG\) Program Announcement \(PA-02-011\)](#)
NOT-EB-04-003 - Release Date: October 8, 2004
Expires: March 1, 2005
- [Ancillary Studies to the AD Neuroimaging Initiative](#)
PA-04-158 - Released September 23, 2004
Receipt Date(s): October 1, February 1, June 1 annually (a month later for amended applications)
- [Addendum to Global Health Research Initiative Program for New Foreign Investigators \(PAR-03-118\)](#)
NOT-TW-04-003 - Released September 23, 2004
- [Interagency Opportunities in Multi-Scale Modeling in Biomedical, Biological, and Behavioral Systems](#)
NSF-04-607 - Released August 10, 2004
Required letters of intent are due: September 22, 2004
Receipt Date: November 9, 2004
- [Novel Approaches to Enhance Animal Stem Cell Research](#)
PA-04-125 - Released: July 8, 2004
Receipt Dates: February 1, June 1, and October 1 annually
- [Understanding and Promoting Health Literacy](#)
PAR-04-116 - Released: June 22, 2004
Receipt Dates: October 13, 2004; October 13, 2005; October 13, 2006
- [Characterization, Behavior and Plasticity of Pluripotent Stem Cells](#)
PA-04-101 - Released: May 4, 2004, Expires: July 2, 2007
Receipt Dates: February 1, June 1, and October 1 annually
- [Novel Approaches to Study Polymicrobial Diseases](#)
PA-04-093 - Released: April 15, 2004, Expires: July 2, 2007

Receipt Dates: February 1, June 1, and October 1 annually

- [Pathogenesis and Treatment of Lymphedema and Lymphatic Diseases](#)
PA-04-071 - Released March 5, 2004, Expires: December 31, 2006
Receipt Dates: February 1, June 1, and October 1 annually
- [NIH/NSF Collaborative Research in Computational Neuroscience \(CRCNS\)](#)
NSF-04-514 - Released November 3, 2003
Receipt Dates: January 30, 2004, January 05, 2005, and January 05, 2006
- [Neurotechnology Research, Development, and Enhancement](#)
PA-04-006 - Released October 08, 2003
Receipt Dates: February 1, June 1, and October 1 annually
- [Informatics for Disaster Management](#)
PA-03-178 - Released September 30, 2003
Receipt Dates: February 1, June 1, and October 1 annually
- [Global Health Research Initiative Program for New Foreign Investigators](#)
PAR-03-118 - Released May 16, 2003
Receipt Date: July 25, 2003-2005
- [Academic Research Enhancement Award](#)
PA-03-053 - Released January 8, 2003
Receipt Dates: January 25, May 25, September 25
- [Research on Microbial Biofilms](#)
PA-03-047 - Released December 20, 2002
Receipt Dates: April 1, August 1, and December 1 annually
- [The Human Brain Project \(Neuroinformatics\): Phase I - Feasibility; Phase II - Refinements, Maintenance and Integration](#)
PAR-03-035 - Released December 3, 2002 - NIBIB Participation Notice
Receipt Dates: January 21, May 21, and September 22, 2003
January 21, May 21, and September 22, 2004
January 21, May 20, and September 22, 2005
- [Neurotechnology Research, Development, and Enhancement](#)
PA-02-003 - Released November 5, 2002 - NIBIB Participation Notice
Receipt Dates: February 1, June 1, and October 1 annually
- [Methodology and Measurement in the Behavioral and Social Sciences](#)
PA-02-072 - Released March 7, 2002
Receipt Dates: February 1, June 1, and October 1 annually
- [Innovation Grants for AIDS Research](#)
PA-02-046 - Released January 18, 2002
Receipt Dates: Receipt Dates: January 1, May 1, and September 1 annually
- [Neurotechnology Research, Development and Enhancement](#)
PA-02-003 - Released October 2, 2001

RO1 Funding Initiatives



SBIR/STTR FUNDING INITIATIVES

- Manufacturing Processes of Medical, Dental, and Biological Technologies (SBIR/STTR)
PA-04-161 - Released October 1, 2004
Receipt Dates: April 1, August 1, and December 1 annually. Expires October 1, 2007.
- Novel Technologies for In Vivo Imaging (SBIR/STTR)
PAR-03-125- Released May 19, 2003
Receipt Dates: July 21, 2003 and November 19, 2003
- Telehealth Technologies Development (SBIR/STTR)
PA-03-030 - Released November 18, 2002
Receipt Dates: April 1, August 1, and December 1 annually
- Systems and Methods for Small Animal Imaging (SBIR/STTR)
PA-03-031 - Released November 18, 2002
Receipt Dates: April 1, August 1, and December 1 annually
- Knowledge Integration across Distributed Heterogeneous Data Sources (SBIR/STTR)
PA-03-001 - Released October 1, 2002
Receipt Dates: April 1, August 1 and December 1 annually
- Innovative Technologies for Enhancing Function for Individuals with Disabilities (SBIR/STTR)
PA-02-071 - Released March 4, 2002
Receipt Dates: April 1, August 1 and December 1 annually
- Probes For Microimaging The Nervous System (SBIR Award)
PA-02-029 - Released December 5, 2001
Receipt Dates: April 1, August 1 and December 1 annually





NIH Roadmap for Medical Research

ACCELERATING MEDICAL DISCOVERY TO IMPROVE HEALTH



The NIH Roadmap

<http://nihroadmap.nih.gov>

General Objective: Make the NIH optimally-effective in meeting its mission of improving health and quality of life

Impact: Ten-year plan – 2004 to 2013

\$ 128 M in 2004 to >\$ 2 B in 2009



Specific Objectives

- Accelerate the pace of discoveries in the life and physical sciences
- Rapidly translate discoveries into practice and application
- Build an integrated system that is far more effective than current approaches



NIH ROADMAP THEMES

**New Pathways
to Discovery**



**Research Teams
of the Future**



**Re-engineering the
Clinical Research
Enterprise**



NIH Roadmap Focus Areas

- Molecular Imaging
- Nano-biomedicine
- Computational Biology/Informatics
- Structural Biology
- Building Blocks, Networks, Pathways
- Inter-Disciplinary Research
- Public/Private Partnerships
- Research Communities
- Research Networks
- High-Risk Research



Roadmap Funding Opportunities

Broad Agency Announcements (BAA's)

- [RFTOP-RM-169, Inventory and Evaluation of Clinical Research Networks](#)
- [Re-Engineering the Clinical Research Enterprise: Feasibility of Integrating and Expanding Clinical Research Networks](#)

Request for Proposals (RFP's)

- [Molecular Libraries Small Molecule Repository](#)

Request for Applications (RFA's)

- [High Throughput Molecular Screening Assay Development](#)
- [Meetings and Networks for Methodological Development in Interdisciplinary Research](#)
- [Training for a New Interdisciplinary Research Workforce](#)
- [Supplements for Methodological Innovations in the Behavioral and Social Sciences](#)
- [Dynamic Assessment of Patient-Reported Chronic Disease Outcomes](#)
- [Interdisciplinary Health Research Training: Behavior, Environment and Biology](#)
- [Short Programs for Interdisciplinary Research Training](#)
- [Curriculum Development Award in Interdisciplinary Research](#)
- [Centers for Innovation in Membrane Protein Production](#)
- [Multidisciplinary Clinical Research Career Development Programs](#)
- [Development of High Resolution Probes for Cellular Imaging](#)
- [Metabolomics Technology Development](#)
- [Exploratory Centers \(P20\) for Interdisciplinary Research](#)
- [National Technology Centers for Networks and Pathways](#)
- [National Centers for Biomedical Computing](#)





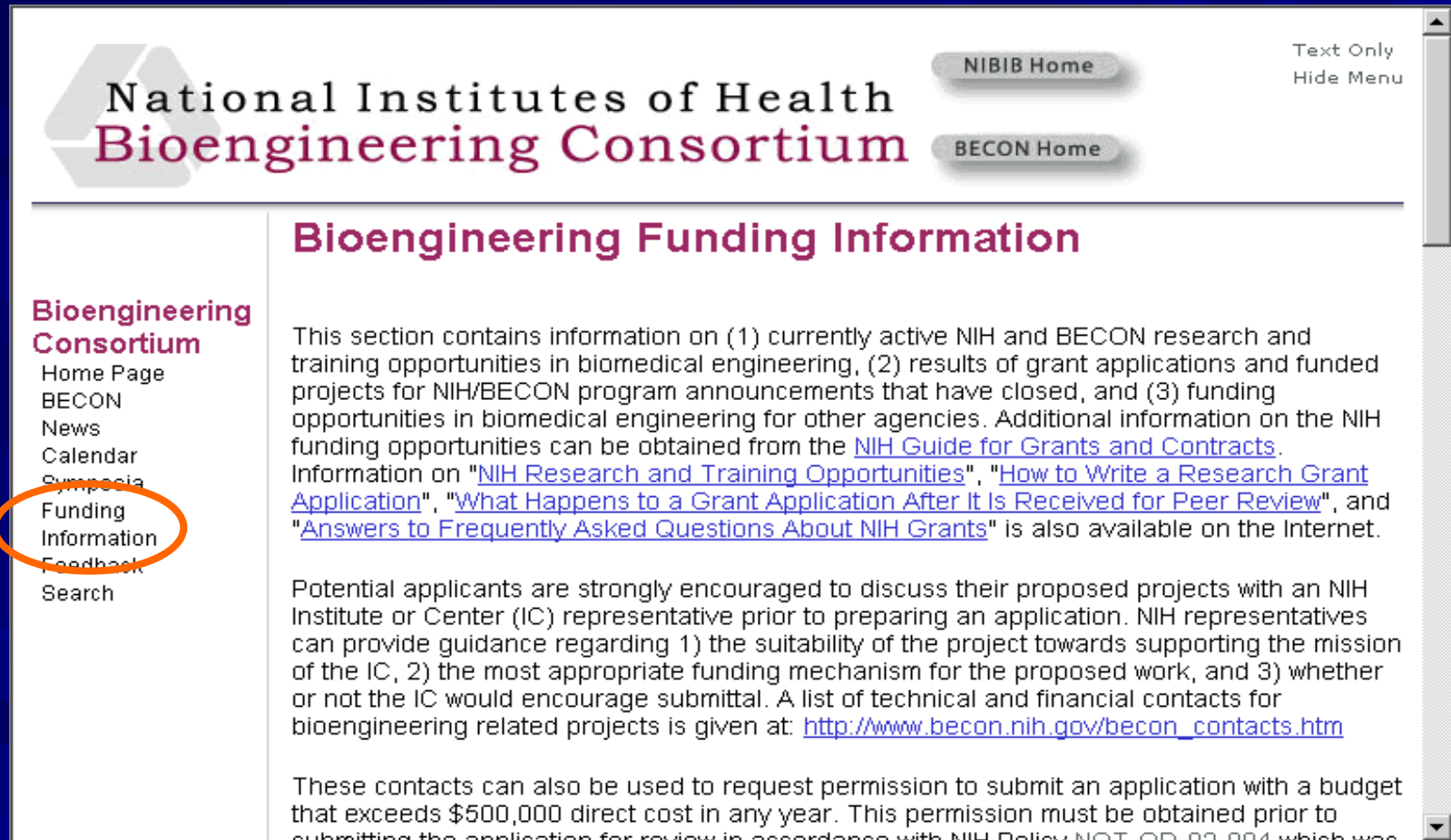
NIH Bioengineering Consortium (BECON)

- Established in February 1997
- Consists of representatives of all NIH Institutes, Centers, and Offices and other Federal agencies (DOE, NSF, NIST)
- Administered by the NIBIB
- Chair: Dan Sullivan (NCI)
- Web site: www.becon.nih.gov



BECON Web Site

www.becon.nih.gov



The screenshot displays the BECON web site interface. At the top left is the NIH logo and the text "National Institutes of Health Bioengineering Consortium". To the right are buttons for "NIBIB Home" and "BECON Home", and a "Text Only Hide Menu" link. A left sidebar contains a menu with items: "Home Page", "BECON", "News", "Calendar", "Symposia", "Funding Information" (circled in red), "Feedback", and "Search". The main content area is titled "Bioengineering Funding Information" and contains two paragraphs of text. The first paragraph describes the section's content and lists several links. The second paragraph discusses the importance of consulting with NIH representatives before applying and provides a contact link. The third paragraph mentions a budget threshold and a specific NIH policy.

**National Institutes of Health
Bioengineering Consortium**

NIBIB Home
BECON Home

Text Only
Hide Menu

Bioengineering Consortium

- Home Page
- BECON
- News
- Calendar
- Symposia
- Funding Information**
- Feedback
- Search

Bioengineering Funding Information

This section contains information on (1) currently active NIH and BECON research and training opportunities in biomedical engineering, (2) results of grant applications and funded projects for NIH/BECON program announcements that have closed, and (3) funding opportunities in biomedical engineering for other agencies. Additional information on the NIH funding opportunities can be obtained from the [NIH Guide for Grants and Contracts](#). Information on "[NIH Research and Training Opportunities](#)", "[How to Write a Research Grant Application](#)", "[What Happens to a Grant Application After It Is Received for Peer Review](#)", and "[Answers to Frequently Asked Questions About NIH Grants](#)" is also available on the Internet.

Potential applicants are strongly encouraged to discuss their proposed projects with an NIH Institute or Center (IC) representative prior to preparing an application. NIH representatives can provide guidance regarding 1) the suitability of the project towards supporting the mission of the IC, 2) the most appropriate funding mechanism for the proposed work, and 3) whether or not the IC would encourage submittal. A list of technical and financial contacts for bioengineering related projects is given at: http://www.becon.nih.gov/becon_contacts.htm

These contacts can also be used to request permission to submit an application with a budget that exceeds \$500,000 direct cost in any year. This permission must be obtained prior to submitting the application for review in accordance with NIH Policy NOT-OD-02-004 which was





Trans-NIH Funding Opportunities in Bioengineering Research (BECON)

- **Exploratory/Developmental Bioengineering Research Grants (EBRG, R21)**
- **Bioengineering Research Grants (BRG, R01)**
- **Bioengineering Research Partnerships (BRP, big R01)**
- **Mentored Quantitative Research Career Development Awards (K25)**
- **Nanoscience and Nanotechnology in Biology and Medicine R01 and SBIR/STIR Awards,**



Bioengineering Research Partnerships (PAR-04-032)

- **Requires** a multi-disciplinary and multi-organizational research team to conduct biomedical research and development
- Teams consist of academia, industry, national laboratories, and clinics – 2 to 7 members
- About 150 BRP grants – Trans-NIH
- Average award - \$ 880 k per year for 5 years
- Get involved in biomedical R&D and the NIH – partner with a NIH grantee



BISTIC

NIH Biomedical Information Science & Technology Initiative Consortium

- Established in April 2000
- Similar structure to the BECON
- Bioinformatics: Application of computer science principles and methods to address problems in biology and medicine
- Administered by the NIGMS
 - Center for Bioinformatics and Computational Biology
Chair: Eric Jakobsson, PhD (NIGMS)
- Web site: www.bisti.nih.gov



BISTIC Web Site

www.bisti.nih.gov

National Institutes of Health

Biomedical Information Science
and Technology Initiative (BISTI)

NIGMS Home

BISTI Home

Hide Graphics
Hide Menu

Bioinformatics

Bioinformatics Home
BISTIC
News
Calendar
Symposia
Funding
Information
Feedback

Bioinformatics Funding Information

This section contains information on (1) active NIH and BISTI Consortium research and training opportunities in bioinformatics and (2) funding opportunities in biomedical computing for other agencies. Additional information on the NIH funding opportunities can be obtained from the NIH Guide for Grants and Contracts. Information on "[NIH Research and Training Opportunities](#)", "[How to Write a Research Grant Application](#)", "[What Happens to a Grant Application After It Is Received for Peer Review](#)", and "[Answers to Frequently Asked Questions About NIH Grants](#)" is also available on the Internet.

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BISTI Bioinformatics Research Opportunities:

- [National Centers for Biomedical Computing](#) - RFA-RM-04-003 (formerly RFA-RR-04-001) - Released September 29, 2003. Click [here](#) for an FAQ and [detailed information page](#). Mechanism: U54
- [Continued Development and Maintenance of Bioinformatics and Computational Biology Software](#) - PA-02-141 - Released July 26, 2002
Mechanism: R01
- [Innovations in Biomedical Information Science and Technology: Phased Innovation Awards \(R21/R33\)](#) - PAR-03-106 - Released April 17, 2003. Note: Corrected dates listed in [NOT-OD-03-044](#)
Mechanisms: R21/R33, R01
- [Innovations in Biomedical Information Science and Technology: SBIR/STTR Initiative](#) - PAR-03-119 - Released May 12, 2003. Note: Corrected dates listed in [NOT-OD-03-044](#)
Mechanisms: R41, R42, R43, R44



Trans-NIH Funding Opportunities in Bioinformatics and Computational Biology Research (BISTIC)

- **Innovations in Biomedical Computational Science and Technology SBIR/STTR Initiative**
- **Innovations in Biomedical Computational Science and Technology R01 and R21/R33 Awards**
- **Continued Development and Maintenance of Bioinformatics and Computational Biology Software Initiative**



BEFORE Preparing your Application

- Contact Scientific Program Staff at the relevant IC (based on mission)
- Describe project to staff and ask if they would encourage submittal
- If not, ask about other opportunities and who might have an interest
- If over \$500K direct costs in any year, ask about initial approval requirements



Applications Over \$500K

- Policy applies to applications requesting more than \$500K in direct costs in any one year
- Must **request** permission to submit application **6 weeks before receipt date**
- Request permission from the scientific program staff from the Institute (IC)
- Request should contain:
 - Brief description of the project & specific aims
 - Draft budget for all years
- NIH-wide policy (NOT-OD-02-004)
- Applications will not be accepted without approval



Foreign Applications

Foreign Applications

- present special opportunities for furthering research programs through the use of unusual talent, resources, populations, or environmental conditions in other countries that are not readily available in the United States or that augment existing U.S. resources.
- have the potential for significantly advancing the health sciences in the United States.

Foreign Collaborations



NIBIB Policy on “New” Investigator Funding

- Investigators “**new**” to the **NIH** who have scores within 5 percentile points of the pay line will be funded.
- This program will improve the success of new applicants for R01 awards.
- This policy will apply only to Program Announcement and unsolicited R01 applications.



Applications from New Investigators

- **Identify yourself as a New Investigator**
 - Definition in PHS 398
 - Mark box on face page of PHS 398
- **Reviewers often de-emphasize track record**
- **Special consideration given when making funding decisions**



How to Get Involved with the NIH

- Monitor Web sites and literature
- Participate in workshops and symposia
- Participate in review of grant applications (study sections)
 - Must have recognized expertise in field and must have been peer-reviewed
 - Contact review staff
- Partner with NIH grantee



Take Home Messages

- www.nibib.nih.gov
- Lots of opportunities
- Good time for collaborative research – organizations and disciplines
- Contact Scientific Program Staff
 - Fit with institute mission and priorities
 - Best grant mechanism or program









We are here to help!
Staff contacts at www.nibib.nih.gov
kelleyc@mail.nih.gov



Visit us or call us at the NIBIB



**Thank You for Your Attention
Hope I didn't make you too sleepy!**

