Behavioral and Social Sciences Research at the National Institutes of Health

Deborah H Olster, PhD
Deputy Director
Office of Behavioral and Social Sciences Research
The NIH Mission:

... science in pursuit of fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to extend healthy life and reduce the burdens of illness and disability.

NIH...Turning Discovery into Health
A few behaviors explain nearly half of all deaths

Actual Causes of U.S. Deaths, 2000

47% Modifiable behavioral and social factors, including

- 18.1% Tobacco
- 15.2% Poor diet and physical inactivity
- 3.5% Alcohol consumption
- 3.1% Microbial agents
- 2.3% Toxic agents
- 1.8% Vehicular accidents
- 1.2% Firearms
- 0.8% Sexual behaviors
- 0.7% Illicit use of drugs

NIH structure

27 Institutes & Centers (ICs):

- National Institute on Aging (NIH)
- National Institute on Drug Abuse (NIDA)
- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- National Institute of Health (NIH)

Office of the Director

Division of Program Coordination, Planning, & Strategic Initiatives

Office of Behavioral and Social Sciences Research

http://www.nih.gov/about/organization.htm
NIH FY 2011
Behavioral and Social Sciences Funding
$3.57 Billion

The OBSSR Mission:

... to stimulate behavioral and social sciences research throughout NIH and to integrate these areas of research more fully into others of the NIH health research enterprise, thereby improving our understanding, treatment, and prevention of disease.
What does OBSSR do?

- Develops funding initiatives for research
- Provides opportunities for training and career development for behavioral and social scientists
- Organizes conferences, workshops, and lectures

Health: From Cells to Society

Adapted from Glass & McAtee, 2005
OBSSR Thematic Priorities

• The next generation of data and analysis methods
• Behavioral and social science in an evolving health care system
• Training the next generation of behavioral and social scientists
THEME 1: The Next Generation of Data and Analysis Methods

- Mobile Health
- Electronic Health Records
- Systems science

- Data Collection
- Data Visualization
- Data Analysis
Diagnoses of HIV Infection and Population, by Race/Ethnicity, 2009—40 States

Diagnoses of HIV infection
N=42,011

- American Indian/Alaska Native: <1%
- Asian: <1%
- Black/African American: 52%
- Hispanic/Latino*: 13%
- Native Hawaiian/Other Pacific Islander: <1%
- Multiple races: 1%
- White: 28%

Population, 40 States
N=241,832,054

- American Indian/Alaska Native: 3%
- Asian: 1%
- Black/African American: 13%
- Hispanic/Latino*: 13%
- Native Hawaiian/Other Pacific Islander: <1%
- Multiple races: <1%
- White: 68%

Note: Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. All displayed data have been statistically adjusted to account for reporting delays, but not for incomplete reporting.

*Hispanics/Latinos can be of any race.
<table>
<thead>
<tr>
<th>Announcement Number</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>PAR 11-314 (R01)</td>
<td>Systems Science and Health in the Behavioral and Social Sciences</td>
</tr>
<tr>
<td>PAR 11-315 (R21)</td>
<td>Behavioral Interventions to Address Multiple Chronic Health Conditions in Primary Care</td>
</tr>
<tr>
<td>PA 12-024 (R01)</td>
<td>Practical Interventions to Improve Medication Adherence in Primary Care</td>
</tr>
<tr>
<td>PA 12-022 (R01)</td>
<td>Translating Basic Behavioral and Social Science Discoveries into Interventions to Improve Health-Related Behaviors</td>
</tr>
<tr>
<td>PAR 10-136 (R01)</td>
<td>Behavioral and Social Science Research on Understanding and Reducing Health Disparities</td>
</tr>
<tr>
<td>PAR 10-133 (R01)</td>
<td>Understanding and Promoting Health Literacy</td>
</tr>
<tr>
<td>PA 12-023 (R21)</td>
<td>Behavioral Interventions to Address Multiple Chronic Health Conditions in Primary Care</td>
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</tbody>
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[http://obssr.od.nih.gov/funding_opportunities/foas/foas.aspx]
Current OBSSR Training Initiatives

Training Institutes

- Annual Summer Training Institute on Randomized Clinical Trials involving Behavioral Interventions
- Institute on Systems Science and Health
- Mobile Health (mHealth) Summer Institute
- Training Institute for Dissemination and Implementation Research in Health (TIDIRH)

http://obssr.od.nih.gov/training_and_education/training.aspx
Additional OBSSR Training Initiatives

**Online Resources**
- Behavioral and Social Science Research Interactive Textbook
  http://www.esourceresearch.org/
- On-Line Training in Evidence-Based Behavioral Practice
  http://www.ebbp.org/
- Genetics and Social Science: Expanding Transdisciplinary Research
  http://www.nchpeg.org/bssr/

**Other Training Activities**
- Hosts SRCD, AAAS, PAA, and APA fellows
- Fund medical schools to develop, pilot, & disseminate curricula that include behavioral & social sciences
The National Institutes of Health (NIH) Director Francis Collins, M.D., Ph.D., announced the launch of the Basic Behavioral and Social Science Opportunity Network (OppNet) on November 16, 2009. OppNet is a trans-NIH initiative to expand the agency’s funding of basic behavioral and social sciences research (b-SSSR). Basic-SSSR furthers our understanding of fundamental mechanisms and patterns of behavioral and social functioning, relevant to the Nation’s health and well-being, as they interact with each other, with biology and the environment. Research results lead to new approaches for reducing risky behaviors and improving health. [Read More >]
<table>
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<tr>
<th>Announcement Number</th>
<th>Title</th>
<th>Application Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFA LM 12-002 (R24)</td>
<td>Basic social and behavioral research on culture, health, and wellbeing</td>
<td>December 17, 2012 February 13, 2013 (AIDS)</td>
</tr>
<tr>
<td>RFA EY 13-001 (R21)</td>
<td>Basic Behavioral Research on Multisensory Processing</td>
<td>October 31, 2012</td>
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**Workshop**

July 23-24, 2012

**Improving Animal Models of Human Behavioral and Social Processes**
The NIH Blueprint for Neuroscience Research is a cooperative effort among the 15 NIH Institutes, Centers and Offices that support neuroscience research. Read more about Blueprint.

Blueprint fact sheet (PDF)

Member Institutes, Centers and Offices

Search NIF for neuroscience data, literature and research tools now!

New @ Blue

Unveiling the NIH Toolbox

Registration is now open for a free conference in September that introduces researchers to the NIH Toolbox — a set of neurological and behavioral health measurements designed for use in large-scale clinical studies. A smaller training workshop is also available. More

Unique stem cells drive mouse cortex development

In affiliation with the Cre Driver Network, researchers at Scripps have found in mice that unique stem cells, and not simply the timing of cell migration, are responsible for generating layer-specific neurons in the cerebral cortex. More

Drug Discovery Course & Training Program

Researchers interested in drug discovery and development for nervous system disorders are encouraged to apply to a new Blueprint-funded training program. The program begins with an intensive course in Bethesda, Md. (Feb. 27 - Mar. 2, 2013) and continues with two years of mentoring. More

(To view or print the PDF content on this page, download the free Adobe Acrobat Reader.)
The NIH Common Fund researchers link genetic variants and gene regulation in many common diseases.
NIH Academic Research Enhancement Awards (AREA; R15)

PA-12-006

• Goals of the Program
  – Support meritorious research
  – Expose students to research
  – Strengthen the research environment of the institution

• Key Features
  – Project period is limited to 3 years.
  – Direct costs are limited to $300,000 over the entire project period.
  – Grants are renewable.
  – Preliminary data are not required.

http://grants.nih.gov/grants/funding/area.htm
Institutional Development Awards (IDeA)

• Centers of Biomedical Research Excellence (COBRE)
  – An established principal investigator with expertise central to the research theme of the center, has an active research laboratory, has relevant peer-reviewed funding and has demonstrated administrative leadership and mentoring experience.
  – Three to five individual research projects—each supervised by a single junior investigator—that stand alone but share a common thematic scientific focus.
  – At least one mentor for each junior investigator, and a development and mentoring plan addressing how the junior investigators will transition to competitive grant support from NIH institutes and centers or other Federal or non-Federal agencies or organizations.

• Phase I, PAR-11-286; Phase II, PAR-12-224; Phase III, PAR-11-229

http://www.nigms.nih.gov/Training/IDeA/COBRE.htm
IDeA Networks of Biomedical Research Excellence (INBRE); PAR 12-205

- Build the lead and partner institutions' biomedical research expertise and infrastructure.
- Build the research base and capacity by providing research support to faculty, postdoctoral fellows and graduate students.
- Provide research opportunities for undergraduate students and serve as a "pipeline" for undergraduate students to continue in health research careers within IDeA states.
- Provide outreach activities to students at undergraduate institutions, community colleges and tribal colleges participating in the state's network.
- Enhance the science and technology knowledge of the state's workforce.

http://www.nigms.nih.gov/Training/IDeA/INBRE.htm
• Navigating NIH
  – Where do I start?
• Is NIH interested in my idea?
  – Which Institute/Center?
  – How do I find a person to talk to about my project?
• Funding Opportunity Announcements
• Preparing and submitting an application
• What happens next?
Navigating NIH – Where do I start?

National Institutes of Health
NIH...Turning Discovery into Health®

Grants & Funding

IN THE NEWS
- Genes Involved in Depression
  A promising new target for potential therapies.
  Posted on Sep 13, 2012
- Back to School
  Help kids develop healthy eating habits & increase physical activity.
  Posted on Sep 6, 2012
- West Nile Virus
  Environmental factors that influence disease emergence.
  Posted on Aug 31, 2012

THE NIH DIRECTOR
Biographical Sketch

NIH at a Glance
Funding for Research
Labs at NIH
Training at NIH
Use NIH RePorter to find out what NIH is currently funding

http://projectreporter.nih.gov/reporter.cfm
NIH RePorter Results Page

Project Search Results

There were 440 results matching your search criteria.

<table>
<thead>
<tr>
<th>Project</th>
<th>Year</th>
<th>Sub</th>
<th>Project Title</th>
<th>Contact PI</th>
<th>Organization</th>
<th>FY</th>
<th>Admin IC</th>
<th>Funding FY Total Cost by IC</th>
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<tbody>
<tr>
<td>1 R21 CA155687 01A</td>
<td>2012</td>
<td>NCI</td>
<td>EXPLAINING INTERVENTION AND BREAST CANCER REMARKERS IN BLACK WOMEN</td>
<td>ADAMS-CAMPBELL, JOSEPH H</td>
<td>GEORGETOWN UNIVERSITY</td>
<td>NCI</td>
<td>$178,959</td>
<td></td>
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<tr>
<td>2 PO1 DK095210 01A</td>
<td>2012</td>
<td>NDDK</td>
<td>MOUSE METABOLIC PHENOTYPING CORE</td>
<td>AHMADA, REYNOLD S</td>
<td>UNIVERSITY OF PENNSYLVANIA</td>
<td>NDDK</td>
<td>$87,891</td>
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<td>3 R18 DK169111 01A</td>
<td>2012</td>
<td>NDDK</td>
<td>THE REACH AND EFFECTIVENESS OF TECHNOLOGY-ENHANCED DIABETES PREVENTION PROGRAM</td>
<td>ALMEIDA, FABIO ARAUJO</td>
<td>VIRGINIA POLYTECHNIC INST AND ST UNIV</td>
<td>NDDK</td>
<td>$896,486</td>
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NIH RePorter Project Information

Abstract Text:

DESCRIPTION (provided by applicant): Obesity itself is a significant public health problem and is associated with increased postmenopausal breast cancer incidence and mortality. This research proposal will assess a novel method to improve physical activity in Black women, who are generally less physically active and more overweight and obese than women of most other racial and ethnic groups. In this study we will use a novel gaming intervention strategy and assess its impact on weight and biomarkers related to obesity, insulin-related pathways and inflammation. We propose a 6 month two-arm randomized clinical intervention trial using video gaming compared to a control group. We will randomize 100 Black sedentary overweight or obese women to either the Wii Fit exercise intervention arm or the control arm. The Specific Aim of the study are: (1) to examine the feasibility and acceptability of an exergaming intervention in a community-based setting. We will assess overall accrual and adherence to the intervention regimen; (2) to explore intervention main effects of exergaming using Wii Fit on study endpoints of cardiovascular fitness and percent body fat in Black women who are sedentary and overweight or obese. To our knowledge, this is the first study investigating a video gaming intervention in adults; (3) to examine the feasibility of...
NIH RePorter Project Details
The NIH Guide to Grants and Contracts

The NIH Guide for Grants and Contracts is the official publication for NIH medical and behavioral research grant policies, guidelines and funding opportunities. Definitions and More Information...

Search the NIH Guide for:
- Active RFAs (Requests for Applications)
- Active PAs (Program Announcements)
- Recent Notices (Released in Last 12 Months)
- Inactive & Active Announcements (use Advanced Search)

With Announcement # or Keywords: (Optional)

Browse Active Funding Opportunities
Browse Recent Policies and Guidelines

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<tbody>
<tr>
<td>“Parent”</td>
<td>No – used for “investigator initiated” applications</td>
<td>No</td>
<td>Standing Study Sections</td>
<td>Standard</td>
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<tr>
<td>Request for applications (RFA)</td>
<td>Yes</td>
<td>Yes</td>
<td>Special Emphasis Panel</td>
<td>Special; often one time only</td>
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<tr>
<td>Program Announcement (PA)</td>
<td>Yes</td>
<td>No</td>
<td>Standing Study Sections</td>
<td>Standard</td>
</tr>
<tr>
<td>Program Announcement with Special Receipt, Referral or Review (PAR)</td>
<td>Yes</td>
<td>No</td>
<td>Often Special Emphasis Panel</td>
<td>Special; often multiple/year</td>
</tr>
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Preparing and Submitting the Application

- Adequate time; register with grants.gov
- Seek assistance
  - from your colleagues
  - from your institution’s research development office
  - from the NIH program staff
- Read funding opportunity announcements carefully
- Follow instructions on the application forms
Review and Funding

• Center for Scientific Review (CSR)
  http://www.csr.nih.gov
  – Division of Receipt and Referral assigns applications to
  • Institute or Center for administration
  • Study Section for peer review
  • National Advisory Councils