

## A busy academic year for the Division of Research

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By Robyn Nissim

As another “traditional” academic year comes to a close, here’s a look back at some of the research initiatives that emanated from the DoR in the past ten months.

The DoR sponsored a diverse array of speakers, workshops, symposia and conferences in 2013-2014. This included the [ASSIST](#) 2013 Industry Workshop in November, which drew nearly 100 researchers and students from across the US to present state-of-the-art developments in areas such as low power sensing, computation and communication, high-density storage and energy harvesting.

Representatives from the National Science Foundation, the Air Force Office of Scientific Research (AFOSR), Penn State, MIT, Georgia Tech, Cal Tech, Texas A&M, and Brigham Young University, among others, came to FIU for the 2014 Workshop on [Origami Design for Integration of Self-Assembling Systems for Engineering Innovation](#). FIU’s Stavros Georgakopoulos presented his innovative research on reconfigurable and multiband electromagnetic systems for cognitive intelligence applications.

In the spring, FIU hosted the [Second Annual STEM Undergraduate Research Symposium](#), where students from universities and colleges throughout the region presented on topics ranging from Post-Traumatic Stress Disorder (PTSD), HIV and addiction to cultural stereotypes, autism, oceanography and genetics.

The Southern HIV and Alcohol Research Consortium (SHARC) research conference, organized in conjunction with the University of Florida, presented an opportunity for 60 participants to discuss the progress of their research, with the ultimate goal of identifying methods to improve health outcomes and translate intervention options into clinical practice for people living with HIV. In addition, FIU and UF students presented their research posters.

As part of the USAID West Africa Water Supply, Sanitation and Hygiene Program (WA-WASH), the 2014 West Africa Study Tour program came to FIU for sessions on the role and responsibilities of academic institutions in water management research and education programs and other activities.

Fall 2013 researchers’ gathering



Invited speakers included Dr. Henry Rodriguez from the National Institutes of Health; FIU’s Dr. O. Dale Williams’ talk on “Developing a Testable Hypothesis;” Dr. Katherine Spindler from the University of Michigan Medical School who discussed “*Launch: Individualized Mentoring Team for New Faculty*,” Dr. Catarina Kiefe from the University of Massachusetts Medical School who shared grant writing tips; Dr. Kathie Olsen (founder and managing director of Scienceworks and former NSF deputy director and chief operating officer) who offered a 3-hour workshop discussing the federal research funding environment, with emphasis on the NSF and its funding priorities, opportunities, review processes, and selection criteria; and Dr. David Shaw, Vice President for Research and Economic Development at Mississippi State University, who met with faculty to discuss team science opportunities and challenges in an environment increasingly centered on interdisciplinary research.

Looking forward to the summer and beyond, DoR will continue to address the challenges of a growing research community as identified through the [5th annual customer survey](#). One new initiative is a “hotline” to detect, track and solve difficulties with hiring personnel and purchasing items on grants.

**Congratulations to the entire FIU research community for the research, scholarship and creative achievements of the last academic year.** The coming year holds even more promise in our quest to be World’s Ahead.



Spring 2014 gathering  
(above and far right)



## *Upcoming Events*

### May 2014

**May 2, 10 am to 12 pm**, AHC 3 #110, launch of the Biomolecular Sciences Institute and keynote lecture by Professor [Philip C. Hanawalt](#), Department of Biology at Stanford University, who will speak as part of the Biomolecular Sciences Institute seminar series. This event is hosted by [Yuan Liu](#), Ph.D. Please RSVP at [https://fiu.qualtrics.com/SE/?SID=SV\\_867ekYApaQMxzlR](https://fiu.qualtrics.com/SE/?SID=SV_867ekYApaQMxzlR)

**May 2, 1 to 3 pm**, AHC 4 Breezeway, Advanced Mass Spectrometry open house. Please RSVP at [https://fiu.qualtrics.com/SE/?SID=SV\\_867ekYApaQMxzlR](https://fiu.qualtrics.com/SE/?SID=SV_867ekYApaQMxzlR)

**May 6, 10 am to 3 pm**, CBC Special Events Center, FIU Women Faculty Leadership Institute, networking lunch included. [Dr. Stephanie Goodwin](#) is the keynote speaker.

**May 7, 3:30 to 4:40 pm**, AHC 1 #110—"Why didn't I speak up? Evidence for Multiple Barriers to Prejudice Confrontation" presented by Dr. Stephanie A. Goodwin

**May 28, 7 to 8 pm**, Deering Estate at Cutler, "Striking a Balance: the Future of Coral Reef Ecosystems" by [Dr. Deron Burkepille](#).

## *Awards Received—March 2014*

Florida International University researchers were awarded \$5,897,524 in March 2014. Below is a summary:

**PI: Priyanka Alluri**, Civil and Environ Engineering

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I University Transportation Center (UTC) Program Support:

Development of a Web-based Dec

Award: \$ 82,456

**PI: Linda Blanton**, COE Teaching and Learning

Award Action Type: Increase

Awarding Sponsor: U.S. Department of Education

Title: Project EDUCATE

Award: \$ 446

**PI: Kevin Boswell**, Biology

Award Action Type: Increase

Awarding Sponsor: Prince William Sound Science Center

Title: HRM-Non lethal sampling: In situ estimation of juvenile herring sizes

Award: \$ 47,030

**PI: Kathryn Elizabeth Brogan**, Dietetics and Nutrition

Award Action Type: Initial

Awarding Sponsor: Wayne State University

Title: Project for Enhancement and Alignment of the Continuum of Care for HIV-Infected Youth: A multiagency (HRSA-NIH-CDC-ATN) Collaboration [PEACOC]

Award: \$ 14,640

**PI: Erika K Coles**, Center for Children and Families

Award Action Type: Initial

Awarding Sponsor: Children's Trust

Title: A Summer Program for Children with or at risk for serious behavior problems

Award: \$ 150,000

**PI: Jonathan Comer**, Center for Children and Families

Award Action Type: Initial

Awarding Sponsor: National Institute of Mental Health

Title: Evaluating the Feasibility of Internet-Delivered Parent-Child, Interaction Therapy

Award: \$ 105,868

**PI: Mario R De La Rosa, Crusada**

Award Action Type: Increase

Awarding Sponsor: National Institutes of Health

Title: Center for Substance Use and AIDS Research on Latinos in the United States Award: \$ 472

**PI: Mario R De La Rosa, Crusada**

Award Action Type: Initial

Awarding Sponsor: Pacific Institute for Research &amp; Evaluat

Title: Drinking and Driving Among Recent Latino Immigrants Award: \$ 160,374

**PI: Jessy Devieux, Health Promo and Disease Prevention**

Award Action Type: Initial

Awarding Sponsor: National Institute of Mental Health

Title: Measurement-based Care for Depression in Resource-Poor Settings Award: \$ 171,830

**PI: Maria C Donoso, Earth and Environment**

Award Action Type: Increase

Awarding Sponsor: US Agency for International Development

Title: West Africa Water Supply Award: \$1,269,538

**PI: Zhaohui Fu, Library Operations**

Award Action Type: Initial

Awarding Sponsor: Florida Department of Transportation

Title: Pedestrian Safety Analysis Tool Award: \$ 20,000

**PI: Arindam Gan Chowdhury, International Hurricane Center**

Award Action Type: Initial

Awarding Sponsor: Georgia Institute of Technology

Title: Wall of Wind Testing of Photovoltaic Systems Award: \$ 97,931

**PI: Cheng-Tin Gan, Civil and Environ Engineering**

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I UTC Program Support: Tier I University Transportation Award: \$ 131,848

**PI: Cheng-Tin Gan, Civil and Environ Engineering**

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I UTC Program Support: Evaluation of Signature Altern Award: \$ 85,000

**PI: Raul Gonzalez Jr., Center for Children and Families**

Award Action Type: Continuation

Awarding Sponsor: National Institutes of Health

Title: The Impact of Cannabis Use on the Neurocognitive Functioning of Individuals with HIV/AIDS Award: \$ 390,406

**PI: Ismail Guvenc, Elec and Computer Eng**

Award Action Type: Initial

Awarding Sponsor: National Science Foundation

Title: NeTS: JUNO: Towards Energy-Efficient Hyper-Dense Wireless Networks with Trillions of Devices Award: \$ 150,000

**PI: Ismail Guvenc**, Elec and Computer Eng

Award Action Type: Increase

Awarding Sponsor: DOCOMO Innovations Inc

Title: Compressive Sensing for Improving Accuracy of Fingerprint based Indoor Localization

Award: \$ 15,000

**PI: Mohammed A Hadi**, Civil and Environ Engineering

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I UTC Program Support: Cooperative Vehicle-Highway

Award: \$ 50,000

**PI: Katie Hart**, Center for Children and Families

Award Action Type: Increase

Awarding Sponsor: Children's Trust

Title: Read to Learn: Summer Reading Explorers Program

Award: \$ 35,000

**PI: Zahra Sana Hazari**, STEM Institute

Award Action Type: Initial

Awarding Sponsor: National Science Foundation

Title: CAREER: Changing the Landscape: Towards the Development of a Physics Identity in High School

Award: \$ 159,902

**PI: Zahra Sana Hazari**, STEM Institute

Award Action Type: Initial

Awarding Sponsor: National Science Foundation

Title: CAREER: Changing the Landscape: Towards the Development of a Physics Identity in High School: Sub to 800004184: Participant

Award: \$ 4,900

**PI: Michelle Hospital**, ICHAD

Award Action Type: Initial

Awarding Sponsor: Pennsylvania State University

Title: A Longitudinal Study of Parent Communication with College Students about Alcohol

Award: \$ 84,339

**PI: Krishnaswamy Jayachandran**, Earth and Environment

Award Action Type: Initial

Awarding Sponsor: U.S. Department of Agriculture

Title: Interdisciplinary Training for Multicultural Undergraduate Scholars in Agroecology and Natural Resource Sciences at Florida International University

Award: \$ 200,000

**PI: Xia Jin**, Civil and Environ Engineering

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I UTC Program Support: Examining the Value of Travel

Award: \$ 80,696

**PI: Xia Jin**, Civil and Environ Engineering

Award Action Type: Initial

Awarding Sponsor: Cambridge Systematics

Title: Regional Establishment Survey

Award: \$ 25,296

**PI: Leonel Lagos**, ARC

Award Action Type: Increase

Awarding Sponsor: Office of Environmental Management

Title: FIU's Research Support to DOE's Office of Environmental Management

Award: \$ 88,249

**PI: Leonel Lagos, ARC**

Award Action Type: Increase

Awarding Sponsor: Office of Environmental Management

Title: FIU's Research Support to the DOE's Office of Environmental Management:

Sub Project 1-FIU'S Environment

Award: \$ 63,051

**PI: Leonel Lagos, ARC**

Award Action Type: Increase

Awarding Sponsor: Office of Environmental Management

Title: FIU's Research Support to the DOE's Office of Environmental Management:

FIU'S Environmental Research

Award: \$ 29,197

**PI: Leonel Lagos, ARC**

Award Action Type: Increase

Awarding Sponsor: Office of Environmental Management

Title: FIU's Research Support to the Department of Energy's Office of

Environmental Management: Sub Project 3 Remediation

Award: \$ 41,562

**PI: Leonel Lagos, ARC**

Award Action Type: Increase

Awarding Sponsor: Office of Environmental Management

Title: FIU's Research Support to the DOE's Office of Environmental Management:

Subproject –Waste and D&amp;D Eng

Award: \$ 77,940

**PI: Purnima Madhivanan, Epidemiology**

Award Action Type: Increase

Awarding Sponsor: University of California Berkeley

Title: Global Health Fellows and Scholars Program

Award: \$ 4,251

**PI: H Virginia McCoy, Health Promo and Disease Prevention**

Award Action Type: Pre-Award

Awarding Sponsor: University of Puerto Rico

Title: Florida Puerto Rico Public Health Research

Award: \$ 10,074

**PI: De Etta kay Mills, Biology**

Award Action Type: Initial

Awarding Sponsor: Florida Department of Agriculture and Co

Title: Disease, Dogs and Drones: Early detection of the laurel wilt pathogen

Award: \$ 148,443

**PI: Amir Mirmiran, Civil and Environ Engineering**

Award Action Type: Increase

Awarding Sponsor: Georgia Institute of Technology

Title: Tier I UTC Program Support: Innovative Modular High Perfor

Award: \$ 70,000

**PI: Madhavan P Nair, COM Immunology**

Award Action Type: Increase

Awarding Sponsor: National Institutes of Health

Title: Cocaine in the Neuropathogenesis of HIV infection: Role of HDAC-2

Award: \$ 36,356

**PI: Bruce A Nissen, Global and Sociocultural Studies**

Award Action Type: Initial

Awarding Sponsor: Florida Immigrant Coalition

Title: Developing a Statewide Wage Theft Database

Award: \$ 6,643

**PI: Richard Olson**, Extreme Events Research Center

Award Action Type: Initial

Awarding Sponsor: US Agency for International Development

Title: Disaster Risk Reduction (DRR) in the Americas - Second Phase:

Building Resilience

Award: \$ 95,878

**PI: William E Pelham Jr.**, Center for Children and Families

Award Action Type: Increase

Awarding Sponsor: National Institutes of Health

Title: Increasing Academic Success in Middle School Students with ADHD

Award: \$ 18,074

**PI: William E Pelham Jr.**, Center for Children and Families

Award Action Type: Continuation

Awarding Sponsor: National Institutes of Health

Title: Examining Tolerance to CNS Stimulants in ADHD

Award: \$ 652,494

**PI: Jennifer Rehage**, Southeast Env Research Ctr

Award Action Type: Initial

Awarding Sponsor: Bonefish & Tarpon Unlimited

Title: Bonefish declines in Florida Bay: an integrative geospatial retrospective analysis of patterns & drivers

Award: \$ 369,050

**PI: Jorge Rodriguez**, Physics

Award Action Type: Increase

Awarding Sponsor: University of Notre Dame

Title: QuarkNet 2013-2017

Award: \$ 2,500

**PI: Dionne Stephens**, Psychology

Award Action Type: Initial

Awarding Sponsor: American Psychological Association

Title: Identifying maternal relationship script messaging processes to reduce verbal sexual coercion among Black Adolescent teens

Award: \$ 2,600

**PI: Eric Wagner**, School of Social Work

Award Action Type: Continuation

Awarding Sponsor: National Institute on Drug Abuse

Title: Brief Intervention for Substance Using Native Youth

Award: \$ 591,684

## *Limited Submission Funding Opportunities*

Below is a limited submission funding opportunity with an internal deadline for the months of June and July 2014.

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NIH	<a href="#">Developing and Improving Institutional Animal Resources (G20)</a> (PAR-13-219)	Only one application per institution is allowed.	6/02/2014	8/01/2014
NSF	<a href="#">NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)</a> (NSF 12-529)	An Institution may submit one proposal from each constituent school or college that awards degrees in an eligible field.	6/12/2014	8/12/2014
NIH	<a href="#">Centers of Excellence for Research on CAM (P01)</a> (PAR-12-151)	Only one application per institution is allowed.	7/25/2014	9/25/2014
NIH	<a href="#">Bridges to the Doctorate (R25)</a> (PAR-13-341)	Only one application per institution is	7/24/2014	9/25/2014

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
		allowed.		
NIH	<a href="#">Institutional Research and Academic Career Development Awards (IRACDA) (K12) (PAR-13-290)</a>	Only one application per institution is allowed.	7/24/2014	9/24/2014

Please visit our website at: <http://research.fiu.edu/funding/pages/limited-submissions.html> to review our monthly limited submissions or for further instructions on how to prepare and/or submit your limited submission application.

## *Funding Opportunities*

### Department of Agriculture

#### Integrated Research, Education, and Extension Competitive Grants Program - Methyl Bromide Transition Program (MBT)

**Funding Opportunity Number:** USDA-NIFA-ICGP-004511

**Application Deadline:** May 6, 2014

**Description:** The methyl bromide transition program addresses the immediate needs and the costs of transition that have resulted from the scheduled phase-out of the pesticide methyl bromide. Methyl bromide has been a pest and disease control tactic critical to pest management systems for decades for soilborne and postharvest pests. The program focuses on integrated commercial-scale research on methyl bromide alternatives and associated extension activity that will foster the adoption of these solutions. Projects should cover a broad range of new methodologies, technologies, systems, and strategies for controlling economically important pests for which methyl bromide has been the only effective pest control option. Research projects must address commodities with critical issues and include a focused economic analysis of the cost of implementing the transition on a commercial scale.

<http://www.csrees.usda.gov/fo/methylbromidetransitions.cfm>

#### Supplemental and Alternative Crops

**Funding Opportunity Number:** USDA-NIFA-OP-004516

**Application Deadline:** May 8, 2014

**Description:** The Supplemental and Alternative Crops Competitive (SACC) Grants Program will support the development of canola as a viable supplemental and alternative crop in the United States. The goal of the SACC program is to significantly increase crop production and/or acreage by developing and testing of superior germplasm, improving methods of planting, cultivation, and harvesting, and transferring new knowledge to producers (via Extension) as soon as practicable. Extension, education, and communication activities related to the research areas above must be addressed in the proposal.

<http://www.csrees.usda.gov/fo/supplementalandalternativecrops.cfm>

#### Agriculture and Food Research Initiative - Foundational Program: Critical Agricultural Research and Extension (CARE)

**Funding Opportunity Number:** USDA-NIFA-AFRI-004412

**Application Deadline:** Letter of Intent Due Date June 4, 2014 , Letter of Intent Required for Application Submission August 7, 2014

**Description:** Despite prior investments in basic and applied research, critical problems continue to impede the efficient production and protection of agriculturally-important plants and animals. These problems may be local, regional, or national, and may call for work focused on one or more scientific disciplines. However, all need immediate attention to meet producer needs. Finding and implementing solutions to these critical problems require partnership and close coordination among researchers, extension experts, and producers. Funded projects will quickly yield solutions or practices that can be rapidly implemented by producers.

<http://www.csrees.usda.gov/fo/fpcriticalagriculturalresearchandextensioncareafri.cfm>

### **Agriculture and Food Research Initiative - Dual Purpose with Dual Benefit: Research in Biomedicine and Agriculture Using Agriculturally Important Domestic Species**

**Funding Opportunity Number:** PAR-13-204

**Application Deadline:** Letter of Intent Due Date August 24, 2014; Due Date (Closing) September 24, 2014

**Description:** This interagency Funding Opportunity Announcement (FOA) issued by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) and the National Institute of Food and Agriculture (USDA-NIFA) is to invite the submission of grant applications that utilize agriculturally important domestic animal species to improve human health through the advancement of basic and translational research deemed highly relevant to both agricultural and biomedical research. This initiative is designed to facilitate and encourage comparative medicine research studies through the careful selection and refinement of farm animal models that mimic human developmental, physiological and etiological processes to better understand disease origins and improve assisted reproduction efficiencies. The anticipated outcomes include both the elucidation of fundamental information relevant for the improvement of human health and an increase in food animal production and improvement in animal health and product quality. It is envisioned that each application will address mission-relevant areas of both agencies. <http://grants.nih.gov/grants/guide/pa-files/PAR-13-204.html>

### **Agriculture and Food Research Initiative - Foundational Program: Exploratory**

**Funding Opportunity Number:** USDA-NIFA-AFRI-004412

**Application Deadline:** Letter of Intent Required for Application Submission September 30, 2014

**Description:** This new program area encourages continuous development of innovative ideas that will position US Agriculture at the global forefront. These developments will lead to quantum leaps in the agricultural fields. They will address the challenges that have never been addressed before in the areas of food security, climate change, environmental quality and natural resources, nutrition, obesity, food safety, strong families and vibrant communities, and thriving youth. <http://www.csrees.usda.gov/fo/fpexploratoryafri.cfm>

## **Department of Defense**

### **DoD Breast Cancer Era of Hope Scholar Award**

**Funding Opportunity Number:** W81XWH-14-BCRP-EOHS

**Application Deadline:** August 15, 2014

**Description:** The Era of Hope Scholar Award supports individuals who are early in their careers and have demonstrated significant potential for innovation in breast cancer research. These individuals should be exceptionally talented scientists who have shown that they are the “best and brightest” in their field(s) through extraordinary creativity, vision, and productivity. They should have demonstrated experience in forming effective partnerships and collaborations and should exhibit strong potential for leadership in the breast cancer research community. Since the intent of the Era of Hope Scholar Award is to recognize creative and innovative individuals rather than projects, the central feature of the award is the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should articulate a vision that challenges current dogma and demonstrates an ability to look beyond tradition and convention. Experience in breast cancer research is not required; however, the application must focus on breast cancer, and the PI must maintain a 50% dedication of his/her full-time professional effort during the award period to breast cancer research. This professional effort in breast cancer research can be through a combination of this award and other current support. Individuals from other disciplines who will apply novel concepts to breast cancer are encouraged to submit. The PI is expected to assemble a research team that will provide the necessary expertise and collaborative efforts toward accomplishing the research goals. The PI’s research team must include two or more breast cancer consumer advocates. As lay representatives, the consumer advocates must be individuals who have been diagnosed with breast cancer and are actively involved in a breast cancer advocacy organization. Their role should be independent of their employment, and they cannot be employees of any of the organizations participating in the application. Their role should be focused on providing objective input on the research and its potential impact for individuals with or at risk for breast cancer. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **DoD Breast Cancer Innovator Award**

**Funding Opportunity Number:** W81XWH-14-BCRP-INNOV

**Application Deadline:** August 15, 2014

**Description:** The Innovator Award supports visionary individuals who have demonstrated creativity, innovative

work, and leadership in any field including, but not limited to, breast cancer. The Innovator Award will provide these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could ultimately lead to ending breast cancer. Since the intent of the Innovator Award mechanism is to recognize creative and innovative individuals rather than projects, the central feature of the award is the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should have a past record of creativity, promise for continued innovation in future work, and a vision that challenges current dogma and demonstrates an ability to look beyond tradition and convention. The PI is also expected to be established in his/her field and have demonstrated success at forming and leading effective partnerships and collaborations. To further the development of innovative individuals and spark the generation of novel ideas, applications are required to incorporate the mentoring of promising junior investigators. Experience in breast cancer research is not required; however, the application must focus on breast cancer, and the PI must maintain a 50% dedication of his/her full-time professional effort during the award period to breast cancer research. This professional effort in breast cancer research can be through a combination of this award and other current support. Individuals from other disciplines who will apply novel concepts to breast cancer are encouraged to submit. The PI is expected to assemble a research team that will provide the necessary expertise and collaborative efforts toward accomplishing the research goals. The PI's research team must include two or more breast cancer consumer advocates. As lay representatives, the consumer advocates must be individuals who have been diagnosed with breast cancer and are actively involved in a breast cancer advocacy organization. Their role should be independent of their employment, and they cannot be employees of any of the organizations participating in the application. Their role should be focused on providing objective input on the research and its potential impact for individuals with, or at risk for, breast cancer.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

#### **DoD Breast Cancer Breakthrough Award Levels 1 and 2**

**Funding Opportunity Number:** W81XWH-14-BCRP-BREAKTHROUGH12

**Application Deadline:** May 28, 2014

**Description:** The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near-term or long-term, but must be significant and move beyond an incremental advancement. Applications must articulate the pathway to making a clinical impact for individuals with, or at risk for, breast cancer, even if clinical impact is not an immediate outcome. Research Scope: Research proposed under this award mechanism may be small- to large-scale projects, at different stages of idea and research development. Two different funding levels, based on the scope of the research, are available under this Program Announcement/Funding Opportunity. It is the responsibility of the Principal Investigator (PI) to select the funding level that is most appropriate for the research proposed. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

#### **DoD Breast Cancer Breakthrough Award Levels 3 and 4**

**Funding Opportunity Number:** W81XWH-14-BCRP-BREAKTHROUGH34

**Application Deadline:** August 15, 2014

**Description:** The intent of the Breakthrough Award is to support promising research that has high potential to lead to or make breakthroughs in breast cancer. The critical components of this award mechanism are: Impact: Research supported by the Breakthrough Award will have the potential for a major impact and accelerate progress toward ending breast cancer. The impact may be near-term or long-term, but must be significant and move beyond an incremental advancement. Applications must articulate the pathway to making a clinical impact for individuals with, or at risk for, breast cancer, even if clinical impact is not an immediate outcome. Research Scope: Research proposed under this award mechanism may be small- to large-scale projects, at different stages of idea and research development. Two different funding levels, based on the scope of the research, are available under this Program Announcement. It is the responsibility of the Principal Investigator (PI) to select the funding level that is most appropriate for the research proposed. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

#### **DoD Bone Marrow Failure Idea Development Award**

**Funding Opportunity Number:** W81XWH-14-BMFRP-IDA

**Application Deadline:** August 28, 2014

**Description:** The BMFRP Idea Development Award is intended to support innovative ideas and high-impact approaches based on scientifically sound evidence to move toward the BMFRP vision of understanding and curing BMF diseases. This award mechanism is designed to support new ideas. Proposed research studies should have a high probability of revealing new avenues of investigation. Research projects should include a well-formulated, testable hypothesis based on strong scientific rationale and a developed and well-articulated research approach. Personnel on the proposed team should have a strong background in BMF research.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **Defense Health Program Department of Defense Amyotrophic Lateral Sclerosis Research Program Funding Opportunities for Fiscal Year 2014**

**Description:** Applications to the Fiscal Year 2014 (FY14) Amyotrophic Lateral Sclerosis Research Program (ALSRLP) are being solicited for the Assistant Secretary of Defense for Health Affairs, Defense Health Program (DHP), by the U.S. Army Medical Research Acquisitions Activity (USAMRAA). The ALSRLP was initiated in 2007 aimed at the preclinical assessment of therapeutics for amyotrophic lateral sclerosis (ALS). Appropriations for the ALSRLP from FY07 through FY13 totaled \$39.4 million (M). The FY14 appropriation is \$7.5M. The goal of the ALSRLP is to contribute to a cure for ALS by funding innovative preclinical research to develop new treatments for ALS. FY14 ALSRLP Program Announcements and General Application Instructions for the following award mechanisms are posted on Grants.gov.

#### Therapeutic Development Award

- Letter of intent is due May 13, 2014, Full applications due August 20, 2014
- Independent investigators at all academic levels.
- Supports preclinical development of therapeutics for amyotrophic lateral sclerosis (ALS).
- Specific focus areas include:
  - Development of high-throughput screens and model systems.
  - Development of pharmacological agents up to Investigational New Drug submission.
  - Pilot current Good Manufacturing Practices production or formulation/stability studies.

Preliminary data relevant to the phase of preclinical development are required.

- Clinical trials are not allowed under this mechanism.
- The maximum period of performance is 3 years.
- The maximum allowable funding for the entire period of performance is \$1,500,000 in direct costs.
- More cost-effective studies not requesting the full funding amount are encouraged.
- Indirect costs may be proposed in accordance with the institution's negotiated rate agreement.

#### Therapeutic Idea Award

- Letter of intent is due May 13, 2014, Full applications due August 20, 2014
- Independent investigators at all academic levels.
- Supports early-stage research relative to novel therapeutic development for ALS.
- Studies should be hypothesis-based, but have a clearly defined impact on and relevance to therapeutic development for ALS.
- Innovation and impact are primary criteria.
- Preliminary data are not required
- The maximum period of performance is 2 years.
- The maximum allowable funding for the entire period of performance is \$400,000 in direct costs.
- Indirect costs may be proposed in accordance with the institution's negotiated rate agreement.

All applications must conform to the final Program Announcements and General Application Instructions that are available for electronic downloading from the Grants.gov website. The application packages containing the required forms for each award mechanism are also found on Grants.gov. A listing of all USAMRMC funding opportunities can be obtained on the Grants.gov website by performing a basic search using CFDA Number 12.420. Applications must be submitted through the federal government's single-entry portal, [Grants.gov](http://www.Grants.gov). For more information about the ALSRLP or other CDMRP-administered programs, please visit the [CDMRP website](http://www.CDMRPwebsite) (<http://cdmrp.army.mil>). Point of Contact: 301-682-5507; [help@ebrap.org](mailto:help@ebrap.org)

## **Defense Health Program**

### **Department of Defense Peer Reviewed Orthopaedic Research Program**

#### **Funding Opportunities for Fiscal Year 2014**

**Description:** The FY14 Defense Appropriations Act provides \$30 million (M) to the Department of Defense Peer Reviewed Orthopaedic Research Program (PRORP) to support research focused on optimizing recovery and restoration of function for military personnel with orthopaedic injuries sustained in combat or combat-related duties. This program is administered by the US Army Medical Research and Materiel Command (USAMRMC) through the Office of Congressionally Directed Medical Research Programs (CDMRP).

**Focus Areas:** All applications must address at least one of the following FY14 PRORP Focus Areas. Note that Focus Areas may differ among program announcements/funding opportunities. Full details of FY14 PRORP Focus Areas will be included in the program announcements when they are released.

- Identify and reduce the secondary health effects (e.g., joint contracture, obesity, metabolic syndrome, poor bone health) that follow reduced mobility from traumatic neuromusculoskeletal injury, excluding spinal cord injuries. The focus should be on injuries sustained prior to the age of 45 and secondary health effects that develop within 5 years of injury.
- Physical or occupational therapy (PT/OT) interventions to establish optimal rehabilitation and examine the comparative effectiveness of different PT/OT regimes, such as studies that establish optimal strategies for weight bearing progression, gait training, strengthening, and that prevent or treat post-traumatic joint stiffness and contracture in the ankle, knee, and/or elbow.
- Strategies to inhibit neuromas at surgical/amputation sites.
- The application of novel and/or innovative technologies in prosthetic and orthotic device development toward the improvement or enhancement of:
  - Long-term socket performance, to include afferent and efferent user interface.
  - The fit of prosthetics, including the design and development of flexible socket suspension systems and incorporated interoperability of components to improve stability and usability.
  - Socket performance (comfort, fit, moisture management, residual limb skin integrity, and durability). Novel upper extremity prosthetic sockets, including the design and development of flexible socket suspension systems, are highly encouraged.
  - Myoelectric prosthetic durability (water resistance vs. waterproof components) to enhance the use of myoelectric prostheses in all military environments.

Studies that propose nominal or iterative advancements are not encouraged.

- Research toward osseointegration of upper extremity prostheses, including optimization of the skin-implant interface, prevention of infection, control strategies, and sensory feedback.
- Clinical trials to restore function after volumetric muscle loss, including physical therapy approaches.
- Research on treatment of non-battle orthopaedic injuries that impact unit readiness and reflect historical return-to-work rates less than 50% or longer than 6 months. Non-penetrating/non-ballistic injuries involving knee, shoulder, elbow, hip, or ankle will be considered, but funding will favor studies focusing on a single joint complex. Includes strategies for timing and effectiveness of treatment for multi-ligamentous knee injuries.
- Outcomes Research Award: Identify, understand, and optimize functional outcomes for traumatic military or Veteran amputee or limb salvage populations.

The PRORP is providing the information in this pre-announcement to allow investigators time to plan and develop applications. FY14 PRORP Program Announcement and General Application Instructions for the following award mechanism are anticipated to be posted on the Grants.gov website in April 2014. Pre-application and application deadlines will be available when the Program Announcement is released. This pre-announcement should not be construed as an obligation by the government.

**Career Development Award:** Military active-duty researcher, physical therapist, occupational therapist, or physician-scientist with less than 8 years of postdoctoral clinical or research experience (excluding clinical residency or medical fellowship training)

- Provides support to military (active duty) investigators at an early career stage

- Supports a mentored research experience to prepare military investigators for productive, independent careers in orthopaedic research
- Preliminary data are encouraged but not required
- Maximum funding of \$225,000 in total costs (direct plus indirect costs)
- Period of performance up to 3 years

Clinical Trial Award: Independent investigators at or above the level of Assistant Professor (or equivalent)

- Supports rapid implementation of clinical trials that will have a significant impact on military combat-related orthopaedic injuries
- Preliminary data are required
- Military/Veteran study population highly encouraged
- Investigational New Drug (IND) or Investigational Device Exemption (IDE) applications, if needed, should be submitted to the Food and Drug Administration before the PRORP Grants.gov application submission deadline
- Preproposal submission is required; application submission is by invitation only
- Maximum funding of \$4.0 million in total costs (direct plus indirect costs)
- Period of performance up to 5 years

Clinical Trial Development Award: Independent investigators at or above the level of Assistant Professor (or equivalent)

- Supports planning and preparations for clinical trials that will have a significant impact on military combat-related orthopaedic injuries
- Preliminary data are required
- Not intended to fund original research, only activities to support planning for a future clinical trial such as protocol development, regulatory filings, establishing access to study populations and/or the intervention/study agent, developing collaborations, etc.
- Funds may not be used to conduct a clinical trial
- Preproposal submission is required; application submission is by invitation only
- Maximum funding of \$300,000 in total costs (direct plus indirect costs)
- Period of performance up to 18 months

Idea Development Award: Investigators at or above the level of Assistant Professor (or equivalent)

- Supports conceptually innovative, high-risk/high-gain research
- Emphasis on Innovation and Military Benefit
- Preliminary data are not required
- Clinical trials are not allowed
- Preproposal submission is required; application submission is by invitation only
- Maximum funding of \$750,000 in total costs (direct plus indirect costs)
- Period of performance up to 3 years

Outcomes Research Award: Investigators at or above the level of Assistant Professor (or equivalent)

- New mechanism
- Supports studies that seek to identify, understand, and optimize functional outcomes for traumatic military or Veteran amputee or limb salvage patients
- Studies are sought that will provide information about the advantages, disadvantages, risks, end results, and associated quality of life of health care practices and interventions
- Clinical trials are not allowed
- Preliminary data encouraged but not required
- Preproposal submission is required; application submission is by invitation only
- Maximum funding of \$2.5 million in total costs (direct plus indirect costs)
- Period of performance up to 5 years

Translational Research Award: Independent investigators at all academic levels (or equivalent)

- At least one partner must be a laboratory scientist and at least one partner must be a clinician
- At least one partner must have significant experience in orthopaedic research or orthopaedic medicine
- Supports development of multidisciplinary translational research collaboration between clinicians and laboratory scientists to accelerate movement of promising research hypotheses into clinical applications
- Preliminary or published data are required
- Does not support definitive clinical trials, but limited clinical testing is permissible

- All applications must have direct relevance to orthopaedic injuries sustained during combat or combat-related activities
- Preproposal submission is required; application submission is by invitation only
- Maximum funding of \$1.125 million in total costs (direct plus indirect costs)
- Period of performance up to 3 years

All applications must conform to the final Program Announcements and General Application Instructions that will be available for electronic downloading from the Grants.gov website. The application package containing the required forms for each award mechanism will also be found on Grants.gov. A listing of all USAMRMC funding opportunities can be obtained on the Grants.gov website by performing a basic search using CFDA Number 12.420. A pre-application is required and must be submitted through the CDMRP electronic Biomedical Research Application Portal (eBRAP) (<https://eBRAP.org>) prior to the pre-application deadline. Applications must be submitted through the federal government's single-entry portal, Grants.gov. Submission deadlines are not available until the Program Announcements are released. Requests for email notification of the Program Announcements release may be sent to [help@eBRAP.org](mailto:help@eBRAP.org). Email notifications of funding opportunities are sent as a courtesy and should not be used as a sole source of notification; applicants should monitor Grants.gov for official postings of funding opportunities. For more information about the PRORP or other CDMRP-administered programs, please visit the CDMRP website <http://cdmrp.army.mil>. Point of Contact: CDMRP Public Affairs; 301-619-9783; [usarmy.detrick.medcom-cdmrp.mbx.cdmrp-public-affairs@mail.mil](mailto:usarmy.detrick.medcom-cdmrp.mbx.cdmrp-public-affairs@mail.mil)

### **DoD Amyotrophic Lateral Sclerosis Therapeutic Development Award**

**Funding Opportunity Number:** W81XWH-14-ALSRP-TDA

**Application Deadline:** August 20, 2014

**Description:** The Therapeutic Development Award supports the preclinical assessment of therapeutics for ALS. The proposed studies are expected to be empirical in nature and product-driven but may have a hypothesis-driven approach, provided the focus is on therapeutics. It is anticipated that the agents and/or data generated from these awards will lead to the advancement of new therapies for ALS.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **DoD Amyotrophic Lateral Sclerosis Therapeutic Idea Award**

**Funding Opportunity Number:** W81XWH-14-ALSRP-TIA

**Pre-Application Deadline:** N/A

**Application Deadline:** August 20, 2014

**Description:** The Therapeutic Idea Award is designed to promote new ideas that are still in the early stages of development with the potential to yield highly impactful data and new avenues of investigation for novel therapeutics for ALS treatment. This mechanism supports conceptually innovative, high-risk/high-reward research that could ultimately lead to critical discoveries or major advancement in ALS therapeutics. Proposed research projects should include a well-formulated, testable hypothesis based on strong scientific rationale that holds translational potential to improve ALS treatment and/or advances a novel treatment modality. Projects that focus primarily on investigating the pathophysiology of ALS are outside the scientific scope of this mechanism.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **Research of Technologies Advancing Corrosion Prevention and Control**

**Funding Opportunity Number:** USAFA-BAA-2009-1-CALL-0015

**Application Deadline:** May 9, 2014

**Description:** Research of Technologies Advancing Corrosion Prevention and Control. The United States Air Force Academy (USAFA) is seeking unclassified research white papers and proposals that do not contain proprietary information. If proprietary information is submitted it is the offerors' responsibility to mark the relevant portions of their proposal as specified in USAFA-BAA-2009-1. The Center for Aircraft Structural Life Extension (CAStLE) performs a range of structural integrity research tasks in support of Air Force, Department of Defense (DoD), Department of Homeland Security (DHS), National Aeronautics and Space Administration (NASA), and other government, academic and commercial sponsors. Making use of the extensive experimental and computational facilities housed in the USAFA Department of Engineering Mechanics, CAStLE pursues a range of engineering mechanics, mechanical engineering, aerospace engineering, corrosion engineering and material science research

efforts, with more emphasis on applied research, and that part of development not related to a specific system or hardware procurement. The research program in this center is geared toward providing all undergraduates with a rich, relevant research experience while answering critical research needs of our highly varied customer base. Researchers may expect extensive access to premier facilities, tremendous latitude of pursuits and single-minded focus on research tasks, but must seek to incorporate student/cadet participation in their projects. CASTLE, in partnership with the USAFA Modeling and Simulation Center, is a leader in the complementary employment of experiment and simulation to solve complex static stability, static strength, and fracture mechanics problems. Current research strengths include: high temperature materials development; advanced barrier coatings; static strength, static stability design, corrosion modeling, prevention and control; validation testing, analysis and methods development, computational structural and fracture mechanics; failure analysis, flight data acquisition system development, installation, maintenance and data analysis; structural risk analysis, and support of the USAF Aircraft Structural Integrity Program (ASIP). The interaction between corrosion and cracking damage mechanisms and their effect on the structural integrity has been a long standing interest of CASTLE. There is DoD level interest in material degradation in structures—to include corrosion, cracking and other service-related damage mechanisms. This CALL is focused on research to develop specific capabilities to prevent and control corrosion and degradation of materials and structures of systems and facilities, with the ultimate goal of reducing costs, improving availability of systems, and increasing the safety of military, government, and industry assets. Projects must be new research efforts. Proposals for the continuation of existing research projects funded under previous grant or cooperative agreement awards are not desired. Collaboration among proposing institutions is strongly encouraged.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **Defense Health Program - Department of Defense Gulf War Illness Research Program Funding Opportunities for Fiscal Year 2014 (FY14)**

**Funding Opportunity Number:** TBD

**Application Deadline:** FY14 GWIRP Program Announcements and General Application Instructions for the following award mechanisms are anticipated to be **posted on Grants.gov in early May 2014**. Pre-application and application deadlines will be available when the Program Announcements are released.

**Description:** The Fiscal Year 2014 (FY14) Defense Appropriations Act provides \$20 million (M) to the Department of Defense Gulf War Illness Research Program (GWIRP) to support innovative, high-impact research to improve the health and lives of veterans who have Gulf War Illness (GWI). The GWIRP is administered by the US Army Medical Research and Materiel Command (USAMRMC) through the Office of Congressionally Directed Medical Research Programs (CDMRP). The GWIRP is providing the information in this pre-announcement to allow investigators time to plan and develop applications. FY14 GWIRP Program Announcements and General Application Instructions for the following award mechanisms are anticipated to be posted on Grants.gov in early May 2014. Pre-application and application deadlines will be available when the Program Announcements are released. This pre-announcement should not be construed as an obligation by the government.

New Investigator Award: Transitioning Postdoctoral Fellows

- Current senior postdoctoral fellows who have completed at least 3 years of postdoctoral training.

Early-Career Investigators

- Independent investigators who are within 5 years of their last training position.

New GWI Researchers: Established independent investigators who have received less than \$300,000 in federally-funded, non-mentored funding for GWI research

- Supports investigators new to the field of GWI research at different stages of career development.
- Preliminary or published data that is relevant to GWI and the proposed project are required.
- Previous experience in GWI research is allowed, but not required. However, PIs with a limited background in GWI research are strongly encouraged to have a collaborator who is experienced in the GWI research field.
- Maximum funding of \$500,000 for direct costs.
- Period of performance not to exceed 3 years.
- Indirect costs may be proposed in accordance with the institution's rate agreement.

Clinical Trial Award: Independent investigators at all academic levels (or equivalent).

- Supports Phase II or III clinical trials focusing on treatment for GWI.
- Can be used for comparative research of GWI treatments and multi-center clinical trials comparing treatments.
- Preliminary/preclinical data are required, indicating potential significant benefit for veterans with GWI.

- Multiple PI Option: Allows up to four PIs who will work synergistically on a single project to evaluate new treatment(s) for GWI; multi-center clinical trials are encouraged
- Maximum funding of \$1.5 million for direct costs.
- Multiple PI Option allows up to 3 Partnering PIs with individual awards up to \$1.0 million each for direct costs.
- Period of performance not to exceed 4 years.
- Indirect costs may be proposed in accordance with the institution's rate agreement.

**Innovative Treatment Evaluation Award:** Independent investigators at all academic levels (or equivalent).

- Supports small-scale, early clinical trial evaluations of innovative treatments not previously studied in GWI.
- Pilot Phase II or Phase I/II clinical trial combinations are allowed.
- Provides opportunity to obtain proof of principle data to support future clinical trials.
- Preliminary data are not required, and if provided, do not necessarily have to come from the GWI research field.
- Maximum funding of \$450,000 for direct costs.
- Period of performance not to exceed 3 years.
- Indirect costs may be proposed in accordance with the institution's rate agreement.

**Investigator-Initiated Research Award:** Independent investigators at all academic levels (or equivalent).

- Supports new ideas in basic and clinical development research focusing on GWI.
- Preliminary data are not required, and if provided, do not necessarily have to come from the GWI research field.
- Studies that provide outcomes clearly translatable to clinical use are encouraged.
- Clinical trials are not allowed under this award mechanism.

**Case Definition Option:** Research focused on the development of a consensus case definition of GWI is strongly encouraged. Applications submitted under the Case Definition Option will be reviewed and considered for funding separately from other applications.

- Maximum funding of \$700,000 for direct costs.
- Period of performance not to exceed 3 years.
- Indirect costs may be proposed in accordance with the institution's rate agreement.

All applications must conform to the final Program Announcements and General Application Instructions that will be available for electronic downloading from the Grants.gov website. The application package containing the required forms for each award mechanism will also be found on Grants.gov. A listing of all USAMRMC funding opportunities can be obtained on the Grants.gov website by performing a basic search using CFDA Number 12.420. Applications must be submitted through the federal government's single-entry portal, [Grants.gov](http://Grants.gov). Submission deadlines are not available until the Program Announcements are released. Requests for email notification of the Program Announcements release may be sent to [help@eBRAP.org](mailto:help@eBRAP.org). For more information about the GWIRP or other CDMRP-administered programs, please visit the [CDMRP website \(http://cdmrp.army.mil\)](http://cdmrp.army.mil). Point of Contact: CDMRP Public Affairs; 301-619-9783; [usarmy.detrick.medcom-cdmrp.mbx.cdmrp-public-affairs@mail.mil](mailto:usarmy.detrick.medcom-cdmrp.mbx.cdmrp-public-affairs@mail.mil)

### **National Geospatial-Intelligence Agency Academic Research Program**

**Funding Opportunity Number:** HM0210-14-BAA-0001

**Application Deadline:** September 30, 2017

**Description:** NGA welcomes all innovative ideas for path-breaking research that may advance the GEOINT mission. The NGA mission is to provide timely, relevant, and accurate geospatial intelligence (GEOINT) in support of national security objectives. GEOINT is the exploitation and analysis of imagery and geospatial information to describe, assess, and visually depict physical features and geographically referenced activities on the Earth. GEOINT consists of imagery, imagery intelligence, and geospatial information. NGA offers a variety of critical GEOINT products in support of U.S. national security objectives and Federal disaster relief, including aeronautical, geodesy, hydrographic, imagery, geospatial and topographical information. The NGA Academic Research Program (NARP) is focused on innovative, far-reaching basic and applied research in science, technology, engineering and mathematics having the potential to advance the GEOINT mission. The objective of the NARP is to support innovative, high-payoff research that provides the basis for revolutionary progress in areas of science and technology affecting the needs and mission of NGA. This research also supports the National System for Geospatial Intelligence (NSG), which is the combination of technology, systems and organizations that gather, produce, distribute and consume geospatial data and information. This research is aimed at advancing GEOINT capabilities

by improving analytical methods, enhancing and expanding systems capabilities, and leveraging resources for common NSG goals. The NARP also seeks to improve education in scientific, mathematics, and engineering skills necessary to advance GEOINT capabilities. It is NGA's intent to solicit fundamental research under this BAA. Fundamental research means basic and applied research in science and engineering, the results of which ordinarily are published and shared broadly within the scientific community, as distinguished from proprietary research and from Industrial development, design, production, and product utilization, the results of which ordinarily are restricted for proprietary or national security reason. (National Security Decision Directive (NSDD) 189, National Policy on the Transfer of Scientific, Technical, and Engineering Information). NGA seeks proposals from eligible U.S. institutions for path-breaking GEOINT research in areas of potential interest to NGA, the DoD, and the Intelligence Community (IC). <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **DoD Peer Reviewed Cancer Idea Award with Special Focus**

**Funding Opportunity Number:** W81XWH-14-PRCRP-IA

**Application Deadline:** September 17, 2014

**Description:** The Idea Award with Special Focus supports innovative, untested, high-risk/potentially high-reward concepts, theories, paradigms, and/or methods in cancer research that are relevant to active duty service members, their families, and other military beneficiaries. The "Special Focus" of this award mechanism is on the cancers associated with exposures, conditions, or circumstances that are unique to the military or disproportionately represented within the military beneficiary population. The advancement of knowledge in cancer research, patient care, and/or treatment options in the military health system is critical to active duty service members, their families, other military beneficiaries, and the American public. Military relevance should be articulated with respect to the overall military health system and the mission of the DHP and the FY14 PRCRP. For more information, please review the following websites: Military Health System (<http://www.health.mil>), the PRCRP (<http://cdmrp.army.mil/prcrp/default.shtml>), and PRCRP Report to Congress (<http://cdmrp.army.mil/prcrp/reports/reports.shtml>). The Idea Award with Special Focus is not intended to support a logical progression of an already established research project. The proposed research project should be novel and innovative. Innovative research may introduce a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other highly creative qualities. Research that is an incremental advance upon published data is not considered innovative. The proposed research project should include a well-formulated, testable hypothesis based on strong scientific rationale and study design. Inclusion of preliminary data is discouraged. The outcome of research supported by this award should be the generation of robust preliminary data that can be used as a foundation for future research projects to understand the mechanisms of initiation, or progression of cancer. This award is not intended to support ongoing research in the applicant's laboratory; therefore, inclusion of preliminary data other than serendipitous findings or in very small amounts is not consistent with the exploratory nature of this award. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **DoD Peer Reviewed Cancer Career Development Award**

**Funding Opportunity Number:** W81XWH-14-PRCRP-CDA

**Application Deadline:** September 17, 2014

**Description:** The PRCRP Career Development Award supports independent, early-career investigators to conduct impactful research with the mentorship of an experienced cancer researcher (i.e., the Designated Mentor) as an opportunity to obtain the funding, guidance, and experience necessary for productive, independent careers at the forefront of cancer research. This award supports impactful research projects with an emphasis on discovery. Under this award mechanism, the early-career investigator is considered the Principal Investigator (PI), and the application should focus on the PI's research and career development. It should be clear that the proposed research is intellectually designed by the PI and not a product of the Designated Mentor. Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. Key elements of the award are as follows:

**Principal Investigator:** The PI must be an independent, early-career research- or physician-scientist within 7 years of his/her first faculty appointment (or equivalent). The PI's record of accomplishments and the proposed research will be evaluated regarding his/her potential for contributing to the FY14 PRCRP Topic Area(s). Because career

development is the focus of this award, the PI's organization must demonstrate a commitment to the PI through confirmation of laboratory space and a minimum of 30% protected time for the proposed research, though more protected time is highly desirable.

**Designated Mentor:** The Designated Mentor must be an experienced cancer researcher as demonstrated by a strong record of funding and publications. In addition, the Designated Mentor must demonstrate a commitment to advancing the PI's career in cancer research. The Designated Mentor's record of accomplishments should include documentation on significant contribution to the relevant FY14 PRCRP Topic Area(s) and in at least one of the FY14 PRCRP Military Relevance Focus Areas. The Designated Mentor must not have a major research focus in breast, prostate, lung (excluding mesothelioma), or ovarian cancer.

**Career Development Plan:** A career development plan is required and should be prepared with appropriate guidance from the Designated Mentor. The application should include a clearly articulated strategy for acquiring the necessary skills, competence, and expertise to advance an independent career at the forefront of cancer research in at least one of the FY14 PRCRP Topic Areas. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **Department of Defense (DoD) Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI) Equipment/Instrumentation**

**Funding Opportunity Number:** W911NF-14-R-0009

**Application Deadline:** June 18, 2014

**Description:** The Department of Defense (DoD) announces the availability of the FY 2014 Broad Agency Announcement (BAA) for Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI). This BAA is a set-aside for HBCU/MI. The program is designed to enhance the research capabilities of HBCU/MI, as well as science, technology, engineering, and/or mathematics (STEM) education programs of HBCU/MI. The purpose of the funding under this Broad Agency Announcement (BAA) is to support the acquisition of research equipment and instrumentation by HBCU/MI to augment existing capabilities, or to develop new capabilities, in technical areas of interest to the DoD. This includes basic equipment for use in research and education, as well as more sophisticated equipment and instrumentation (including software). In addition, although the funding provided under this BAA cannot be used for student support, in order to further DoD's objective of attracting students to pursue studies leading to STEM careers, applicants must address the impact of the requested equipment and instrumentation on student participation in research. The BAA will contain additional information along with instructions for proposal preparation and submission. Proposals must be received through grants.gov no later than 4:00 p.m. Eastern Time on Wednesday, 18 June 2014. The BAA is available for viewing at the following address: <http://www.arl.army.mil/www/default.cfm?page=8>The BAA is also posted in grants.gov. Go to the grants.gov site at the following URL [http://www07.grants.gov/applicants/find\\_grant\\_opportunities.jsp](http://www07.grants.gov/applicants/find_grant_opportunities.jsp) then search by Funding Opportunity Number (FON) W911NF-14-R-0009 <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

### **CRNBAA14-001**

**Funding Opportunity Number:** CRNBAA14-001

**Application Deadline:** May 22, 2014

**Description:** The Department of Defense (DoD) announces the availability of the FY 2014 Broad Agency Announcement (BAA) CRANBAA14-001. The purpose of the funding under this Broad Agency Announcement (BAA) is receiving proposals for the development of novel solutions/concepts to the areas of interest listed below: \* TOF-SIMS Analysis Techniques for Trace Detection of Semiconductor Fabrication Process Contamination \*Black Box Hardware State Machine Characterization - An Undecidable Problem? \* Towards more secure transportable media solutions \* Exploration of Defense-Related Implications of Time-Varying Nuclear Decay Parameters \* Radiation Effects in Memristive Structures The Government may make multiple awards. The amount of resources made available to this BAA will depend on the quality of the proposals received and the availability of funds. The BAA will contain additional information along with instructions for proposal preparation and submission. Proposals must be received through grants.gov no later than 15:00 Eastern Time on Thursday, 22 May 2014. Number CRNBAA14-001. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

**Hand Proprioception****Funding Opportunity Number:** DARPA-BAA-14-30**Application Deadline:** September 10, 2014

**Description:** The HAPTIX program will develop new science and technology to achieve closed-loop control of dexterous mechatronic prostheses that will provide amputees with prosthetic limb systems that feel and function like natural limbs. HAPTIX will focus on development of implantable peripheral interfaces for volitional motor recording and sensory feedback signals; implantable electronic systems to transfer information between these interface(s) and the prosthesis; and sophisticated encoding and decoding algorithms to transform recorded volitional motor control signals into limb movements and patterned stimulation into naturalistic touch and proprioceptive sensations. System performance and the ultimate benefit to prosthetic users will be determined in a year-long, take-home trial before the end of the HAPTIX program. See attached DARPA-BAA-14-30.

<http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

**Innovative Systems for Military Missions****Funding Opportunity Number:** DARPA-BAA-14-25**Pre-Application Deadline:** N/A**Application Deadline:** April 24, 2015

**Description:** The Tactical Technology Office of the Defense Advanced Research Projects Agency is soliciting executive summaries, white papers and proposals for advanced research and development of Innovative Systems for Military Missions. This solicitation seeks system and subsystem level technologies that enable revolutionary improvements to the efficiency and effectiveness of the military. Novel concepts are sought in the following focus areas: Ground Systems, Maritime Systems, Air Systems, and Space Systems. Proposals may be submitted at any time while this solicitation is open. TTO may publish groups of special topics as modifications to this BAA throughout the year. TTO also welcomes classified submissions. A copy of the Broad Agency Announcement, DARPA-BAA-14-25, has been posted to the Federal Business Opportunities (FedBizOpps.gov) website at <https://www.fbo.gov/spg/ODA/DARPA/CMO/DARPA-BAA-14-25/listing.html>.

**DoD Autism Idea Development Award****Funding Opportunity Number:** W81XWH-14-ARP-IDA**Application Deadline:** October 7, 2014

**Description:** The ARP Idea Development Award supports the development of innovative, high-risk/high-reward research that could lead to critical discoveries or major advancements that will accelerate progress in improving outcomes for individuals with autism. This award mechanism is designed to support innovative ideas with the potential to yield impactful data and new avenues of investigation. Past experimental research in the ASD research field or in other developmental disorders is crucial to the FY14 ARP Idea Development Award and will be evaluated. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

**DoD Autism Clinical Trial Award****Funding Opportunity Number:** W81XWH-14-ARP-CTA**Application Deadline:** October 7, 2014

**Description:** The ARP Clinical Trial Award supports research with the potential to have a major impact on the treatment or management of ASD. Funding from this award mechanism must support a clinical trial and may not be used for preclinical research studies. A clinical trial is defined as a prospective accrual of human subjects where an intervention (e.g., device, drug, biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested on a human subject for a measurable outcome with respect to exploratory information, safety, effectiveness, and/or efficacy. This outcome represents a direct effect on the human subject of that intervention or interaction. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

**Missile Defense Agency STEM Outreach B.E.S.T. Robotics Grant****Funding Opportunity Number:** MDA-2014-DACV-STEM-0001**Application Deadline:** May 19, 2014

**Description:** MDA Science, Technology, Engineering, and Mathematics (STEM) Outreach The purpose of this announcement is to allow new, novice, and veteran official BEST Robotics Local Competition Hubs the opportunity to obtain financial support for purchasing new team robotic kits. The additional robotics kits increases

the number of competing teams and advances the awareness of and engagement in STEM with K-12 populations. Proposal submissions are limited to Local Competition Hubs, approved by BEST Robotics Inc.'s National Headquarters and managed by a Higher Education Agency (HEA) - junior college or four-year college/university. BEST Robotics Regional and World Competition hubs are excluded from applying to this grant opportunity. <http://www.grants.gov/search-grants.html?agencies%3DDOD%7CDepartment%20of%20Defense>

## Department of Education

### Office of Innovation and Improvement (OII): Professional Development for Arts Educators (PDAE) Program

**Funding Opportunity Number:** ED-GRANTS-031814-001

**Deadline for Transmittal of Applications:** May 19, 2014

**Description:** The Professional Development for Arts Educators (PDAE) program supports the implementation of high-quality model professional development programs in elementary and secondary education for music, dance, drama, media arts, or visual arts, including folk arts, for educators and other arts instructional staff of kindergarten through grade 12 (K-12) students in high-poverty schools. The purpose of this program is to strengthen standards-based arts education programs and to help ensure that all students meet challenging State academic content standards and challenging State student academic achievement standards in the arts. For more information, visit [www.grants.gov](http://www.grants.gov) and search by opportunity number.

### Office of Elementary and Secondary Education (OESE): Turnaround School Leaders Program

**Funding Opportunity Number:** ED-GRANTS-032814-001

**Deadline for Transmittal of Applications:** May 23, 2014

**Description:** The Turnaround School Leaders Program supports projects to develop and implement or enhance and implement a leadership pipeline that selects, prepares, places, supports, and retains school leaders (which may include leadership teams) for School Improvement Grant (SIG) schools (as defined in this notice) and/or SIG-eligible schools (as defined in this notice) in a local educational agency (LEA) or consortium of LEAs. For more information, visit [www.grants.gov](http://www.grants.gov) and search by opportunity number.

## Department of Justice

### NIJ FY 14 Research on Offender Decision-Making and Desistance from Crime

**Opportunity Number:** NIJ-2014-3752

**Application Deadline:** May 5, 2014

**Description:** The study of adult offender decision-making and desistance to commit crime typically has been approached from a rational choice perspective and a life-course perspective, respectively. With this solicitation NIJ seeks to expand the existing research by examining the process of adult offender decision-making. NIJ requests proposals that either expand the rational choice model and/or life-course model, use other theories to explain either the choice to commit crime or to desist from committing crime (e.g., behavioral economics, business models, psychology, or cognitive models), or any combination of these. Proposed research also should consider issues such as social context, emotions, default choices, or possibly environmental context to gain a better understanding of the overall decision-making process to commit or desist from committing crimes.

<https://ncjrs.gov/pdffiles1/nij/sI001091.pdf>

### NIJ FY 14 Data Resources Program 2014: Funding for Analysis of Existing Data

**Opportunity Number:** NIJ-2014-3726

**Application Deadline:** May 5, 2014

**Description:** NIJ anticipates making a number of awards in cooperation with BJS and OJJDP. A total of \$40,000 may become available for each award made through this solicitation for projects that are usually 12 months in duration. Indirect costs are allowable and included within the total award of \$40,000.

<https://ncjrs.gov/pdffiles1/nij/sI001103.pdf>

### NIJ FY 14 Solving Cold Cases With DNA

**Opportunity Number:** NIJ-2014-3757

**Application Deadline:** May 27, 2014

**Description:** NIJ seeks applications from States and units of local government for funding to identify, review, and investigate “violent crime cold cases” that have the potential to be solved using DNA analysis, and to locate and analyze the biological evidence associated with these cases. Experience has shown that cold case programs can solve a substantial number of violent crime cold cases, including homicides and sexual assaults. Advances in DNA technologies have substantially increased the successful DNA analysis of aged, degraded, limited, or otherwise compromised biological evidence. As a result, crime scene samples once thought to be unsuitable for testing may now yield DNA profiles. Additionally, samples that previously generated inconclusive DNA results may now be successfully analyzed. For the purposes of this announcement: a “violent crime cold case” refers to any unsolved UCR Part 1 Violent Crime case for which all significant investigative leads have been exhausted.

<https://ncjrs.gov/pdffiles1/nij/sl001117.pdf>

#### **OJJDP FY 2014 Multi-State Mentoring Initiative**

**Opportunity Number:** OJJDP-2014-3804

**Application Deadline:** May 27, 2014

**Description:** This solicitation supports qualified, established mentoring organizations as they strengthen and/or expand their existing mentoring activities within local chapters or subawardees. Mentoring activities include direct one-on-one, group, or peer mentoring services for at-risk and underserved youth populations. Successful applicants should implement programs that will recognize and address the factors that can lead to or serve as a catalyst for delinquency or other problem behaviors in underserved youth. Expansion of mentoring activities should create new opportunities for mentee achievement. This program is authorized pursuant to paragraph (2), under the Juvenile Justice heading, in the Department of Justice Appropriations Act, 2014, P.L. 113-76; 128 Stat. 5, 64.

<http://www.ojjdp.gov/grants/solicitations/FY2014/MultiStateMentoring.pdf>

#### **BJA FY 14 National Training and Technical Assistance: Capital Case Litigation**

**Opportunity Number:** BJA-2014-3873

**Application Deadline:** May 27, 2014

**Description:** The purpose of the Capital Case Litigation Initiative (CCLI) (supported by and funded through 42 U.S.C. §14163 et seq.) is to assist states with: (1) improving the quality of legal representation provided to indigent defendants in state capital cases, and (2) enhancing the ability of prosecutors to effectively represent the public in state capital cases. Pursuant to the authorizing statute, 42 U.S.C. § 14163e(b), CCLI funding must be allocated equally between the defense and prosecution. This FY 2014 grant announcement specifically focuses on purpose (1) above: improving the quality of legal representation provided to indigent defendants in state capital cases.

Purpose (2), enhancing the ability of prosecutors to effectively represent the public in state capital cases, is being funded separately and is not covered in this grant announcement. <https://www.bja.gov/Funding/14CCLIsol.pdf>

#### **OJJDP FY 14 Practitioner-Researcher Partnership Mentoring Children**

**Opportunity Number:** OJJDP-2014-3794

**Application Deadline:** May 27, 2014

**Description:** This demonstration program will support a practitioner-researcher partnership to develop and evaluate new mentoring practices to serve the needs of youth whose parents are incarcerated. Incarcerated parents and their children are a heterogeneous group, and associations between parental incarceration and developmental outcomes are complicated. However, research has shown that having an incarcerated parent can present individual and environmental risks for the child and increase the likelihood of negative outcomes. While mentoring has been shown to be an effective intervention for youth, more research is needed to understand how the unique needs of youth who have incarcerated parents are best supported through mentoring. Under this demonstration program, practitioners and researchers must partner to enhance existing mentoring programs to serve children of incarcerated parents and evaluate the new approach. (The program development/implementation and evaluation will be funded as two separate awards under the corresponding categories described below.) The mentoring model that applicants will develop and test should enhance their existing mentoring services, incorporate changes to each of the eight elements of mentoring practice noted below, and be implemented across multiple sites. The evaluation should be a rigorous, random assignment experimental design. This program is authorized pursuant to paragraph (2), under the Juvenile Justice heading, in the Department of Justice Appropriations Act, 2014, P.L. 113-67, 128 Stat. 5, 64.

<http://www.ojjdp.gov/grants/solicitations/FY2014/PartnershipMentoringCOIP.pdf>

**OVW FY 2014 Violence Against Women Bakken Region Initiative: Enhanced Response to Victims****Opportunity Number:** OVW-2014-3892**Application Deadline:** May 28, 2014**Description:** Applications will be submitted through DOJ's Grants Management System (GMS). See "How to Apply" on page 12 of the solicitation for more information. OVW FY14 Violence Against Women Bakken Region Initiative: Enhanced Response to Victims. <http://www.ovw.usdoj.gov/docs/fy2014-initiative-for-the-bakken-region-enhanced-services-for-victims.pdf>**BJA FY 14 Joint Adult Drug Court Solicitation to Enhance Services, Coordination, and Treatment****Opportunity Number:** BJA-2014-3842**Application Deadline:** May 28, 2014**Description:** BJA and SAMHSA are accepting applications for fiscal year (FY) 2014 grants to enhance the court services, coordination, and evidence-based substance abuse treatment and recovery support services of adult drug courts. The purpose of this joint initiative is to allow applicants to submit a comprehensive strategy for enhancing drug court services and capacity. Applicants are competing for two grant awards (a grant from SAMHSA and a separate grant from BJA) for both criminal justice and substance abuse treatment funds with one application. In order to fulfill all of the requirements for this grant program, applicants should comply with the requirements outlined in this grant announcement as well as those incorporated by reference in the Requirements Resource Guide. These grants are authorized under 42 U.S.C. § 3797u, et seq., and section 509 of the Public Health Service Act, as amended. This announcement addresses Healthy People 2020 Substance Abuse Topic Area HP 2020-SA. <https://www.bja.gov/Funding/14BJASAMHSADrugCourtSol.pdf>**2014 Visiting Fellows: Criminal Justice Statistics Programs****Opportunity Number:** BJS-2014-3867**Application Deadline:** May 28, 2014**Description:** The Bureau of Justice Statistics (BJS) is pleased to announce that it is seeking applications for funding for one or more BJS Visiting Fellows to work in its Criminal Justice Statistics Programs. The overall purpose of this program is to address substantive, methodological, and analytic issues to enhance or inform BJS statistical programs; to support the scholarly use of BJS data collections, expand the body of policy-relevant research that uses these data, in order to further knowledge about and understanding of the operation of the criminal justice system. [http://www.bjs.gov/content/pub/pdf/vfcjisp14\\_sol.pdf](http://www.bjs.gov/content/pub/pdf/vfcjisp14_sol.pdf)**NIJ FY 14 Research and Evaluation on Domestic Radicalization to Violent Extremism****Opportunity Number:** NIJ-2014-3751**Application Deadline:** May 28, 2014**Description:** NIJ seeks proposals for research that will help State, local and tribal criminal justice agencies and their attendant communities to implement programs that prevent or counter all forms of radicalization to violent extremism in the United States. Responses can include explanatory models and hypothesis testing, empirical designs with control groups, thick description, case studies and other scientific contributions to our understanding of domestic radicalization to violent extremism as it occurs in the United States. The proposals should respond to at least one of the following focus areas. • Re-Examining Radicalization to Violent Extremism Originating in the United States. • Disengagement and Deradicalization. • Violent Extremism and Gangs: Analogies and Prevention. • The Role of the Internet and Online Discourse in Radicalization to Violent Extremism. • Evaluations of promising practices to prevent or mitigate radicalization. <https://www.ncjrs.gov/pdffiles1/nij/sl001090.pdf>**BJA FY 14 Justice Information Sharing Training and Technical Assistance (JIS TTA) Program****Opportunity Number:** BJA-2014-3879**Application Deadline:** May 29, 2014**Description:** This FY 2014 competitive cooperative agreement program seeks to support the efforts of state, local, and tribal criminal justice agencies to adopt innovative justice information sharing solutions through the provision of training and technical assistance services. Initiatives supported under this solicitation must facilitate adoption of one or more of the components of the Global Standards Package (GSP) and support criminal justice policies, practices, and programs that are data-driven and evidence-based. Funding is being made available under several priority JIS TTA categories which BJA has identified below. Specific tasks and deliverables are unique to each

category, and prospective applicants are encouraged to fully research and understand the scope of the underlying criminal justice challenges prior to applying. Applicants must adhere to all national guidelines and expectations as set forth by BJA under each category description. <https://www.bja.gov/Funding/14JISTTAsol.pdf>

### **BJA FY 14 Swift and Certain Sanctions (SAC) Training and Technical Assistance Resource Center**

**Opportunity Number:** BJA-2014-3895

**Application Deadline:** May 30, 2014

**Description:** There are a multiple states, counties, and cities that are interested in implementing “Swift and Certain” (SAC) models of supervision with offenders in the community. This interest has grown out of the potential promise that these SAC models have shown in effectively reducing recidivism and preventing crime. In particular, Hawaii’s Opportunity Probation with Enforcement (HOPE) program has been shown to have promise, and as a result there is significant interest and activity in implementing this model of supervision, and other versions of the HOPE model which rely on swift and certain sanctions. Through this FY 2014 grant announcement, BJA will select a national training and technical assistance (TTA) partner to work with BJA, its federal partners, states, tribes, and local jurisdictions to provide training, technical assistance, and coaching to jurisdictions interested in establishing SAC initiatives. The TTA provider will: Develop a process to accept, review, and approve requests for assistance in coordination with BJA. Provide need-based onsite assistance, developing and facilitating web-based trainings, hosting public webinars, and providing office-based assistance to parties interested in the HOPE model, or other versions of SAC. Establish a web-based resource center where information related to HOPE and SAC strategies can be maintained, shared, discussed, and used as a resource to support jurisdictions interested in implementing these models. Help jurisdictions build their capacity to implement their SAC approach with fidelity. Develop relevant materials and resources for the field. <https://www.bja.gov/Funding/14SACTTAsol.pdf>

## **Department of Transportation**

### **Department of Transportation - FY 2014 CMVOST Notice of Funding Availability**

**Funding Opportunity Number:** FM-DTG-14-001

**Application Deadline:** May 5, 2014

**Description:** The CMVOST grant is a nationwide Federal financial assistance program intended to reduce the severity and number of crashes on U.S. roads involving commercial motor vehicles (CMV) by training operators and future operators in the safe use of such vehicles. <http://www.grants.gov/search-grants.html?agencies%3DDOT%7CDepartment%20of%20Transportation>

### **Department of Transportation - Pipeline Safety Research Competitive Academic Agreement Program (CAAP) – 2014**

**Funding Opportunity Number:** DTPH5614SN000006

**Application Deadline:** May 9, 2014

**Description:** The Pipeline and Hazardous Materials Safety Administration (PHMSA), through the U.S. Department of Transportation (DOT), hereby requests applications from non-profit institutions of higher education to obtain funding for researching innovative solutions to pipeline corrosion and other known pipeline integrity challenges. The Competitive Academic Agreement Program (CAAP) is intended to spur innovation by enabling academic research focused on high-risk and high pay-off solutions for the many pipeline safety challenges. The authority for PHMSA’s Pipeline Safety Research and Development Program comes from the Pipeline Safety Improvement Act of 2002 (P. L. 107-355, December 17, 2002). Further, the authority to enter into cooperative agreements under the CAAP initiative is codified at 49 U.S.C. §60117(k), Authority for Cooperative Agreements. All questions regarding this Funding Opportunity Announcement (FOA) must be submitted via email on or before April 15, 2014 (see Section 4.04 of FOA document). Complete applications must be submitted electronically through Grants.gov AND PHMSA’s Management Information System (MIS) by 11:59 pm Eastern Time on May 9, 2014 (see Sections 4.01 through 4.03 of FOA document). \*\*REFER TO THE ATTACHMENTS ENTITLED “FOA #DTPH5614SN000006 – CAAP 2014” AND “Attachment A – CAAP 2014 Technical Application Template” UNDER THE “FULL ANNOUNCEMENT” TAB FOR COMPLETE DETAILS.\*\* <http://www.grants.gov/search-grants.html?agencies%3DDOT%7CDepartment%20of%20Transportation>

## Environmental Protection Agency

### 2014 EPA GREATER RESEARCH OPPORTUNITIES (GRO) FELLOWSHIPS FOR UNDERGRADUATE ENVIRONMENTAL STUDY

**Opportunity Number:** EPA-F2014U-GRO-Q2

**Application Deadline:** May 27, 2014

**Description:** The U.S. Environmental Protection Agency (EPA), as part of its Greater Research Opportunities (GRO) Fellowships program, is offering undergraduate fellowships for bachelor level students in environmental fields of study. The deadline for receipt of applications is May 27, 2014, at 11:59:59 PM ET. Subject to availability of funding and other applicable considerations, the Agency plans to award approximately 34 new fellowships. Eligible students will receive support for their junior and senior years of undergraduate study and for an internship at an EPA facility during the summer of their junior year. The fellowship provides up to \$20,700 per academic year of support and \$8,600 of support for a three-month summer internship.

[http://www.epa.gov/ncer/rfa/2014/2014\\_gro\\_undergrad.html](http://www.epa.gov/ncer/rfa/2014/2014_gro_undergrad.html)

### FY 2014 HAZARDOUS WASTE MANAGEMENT GRANT PROGRAM FOR TRIBES

**Opportunity Number:** EPA-OSWER-ORCR-14-04

**Application Deadline:** May 30, 2014

**Description:** This notice announces the availability of funds and solicits proposals from federally-recognized tribes or intertribal consortia for the development and implementation of hazardous waste programs and for building capacity to address hazardous waste management in Indian country. In accordance with the EPA Indian Policy of 1984, EPA recognizes tribal governments as the primary parties for managing programs for reservations.

<http://www.epa.gov/oswer/docs/grants/epa-oswer-orcr-14-04.pdf>

## Miami-Dade County Department of Cultural Affairs

### Audience Access Grant Program

**Funding Opportunity Number:** N/A

**Pre-Application Deadline:** N/A

**Application Deadline:** Ongoing

**Description:** The Department of Cultural Affairs is committed to continuing its collaborative efforts in working with people with disabilities and cultural/community organizations to help address ADA compliance issues, programmatic accessibility, and audience development and outreach efforts. The Department strives to ensure that all of its grantees are likewise committed to making their facilities and programs accessible to people of all abilities. The Audience Access Grant Program is designed to provide funding to promote and help pay for arts program ADA/access technology, such as American Sign Language (ASL) interpreters, captioning, audio description, marketing materials, and other such services to ensure programmatic access for audiences of all abilities. This program is not intended to provide assistance in funding capital/facilities improvements, such as construction, renovation or major equipment purchases. <http://miamidadearts.culturegrants.org/navigation/links/page/audience-access-aud>

## National Aeronautics and Space Administration

### First Award Fellowship Program

**Funding Opportunity Number:** NSBRI-RFA-14-02

**Application Deadline:** June 6, 2014

**Description:** This National Space Biomedical Research Institute (NSBRI) Request for Applications (NSBRI-RFA) is soliciting applications for the First Award Fellowship Program. First Award Fellowships will be competitively awarded for two years, with an opportunity for a third year renewal, in any laboratory in the U.S. conducting biomedical/biotechnological research aligned with NSBRI's goals. First Award Fellowship Program applicants must prepare proposals with the support of a Mentor and institution (university, national lab, etc.), and all proposals will be objectively and rigorously scientifically and technically evaluated by the NSBRI First Award Fellowship Committee. <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={E402E3C7-C5F0-6E84-F638-4390E01A0A3B}&path=open>

**Atmospheric Composition: Modeling and Analysis****Funding Opportunity Number:** NH14ZDA001N-ACMAP**Application Deadline:** July 1, 2014

**Description:** The modeling and analysis effort addresses the following research issues: tropospheric air quality and oxidation efficiency, pollution sourced aerosols where they impact cloud properties, stratospheric chemistry, including ozone depletion, and chemistry/climate interactions. Studies of long-term trends in atmospheric composition (potentially using both current and past mission data sets) are also of interest to the program, where the connection between cause and effect is elucidated using models. The program is interested in studies that integrate observations from multiple instruments with models to address attribution and predictions.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A338908F-CBB3-CC50-FF89-58462C99FCFA}&path=open>

**Heliophysics Infrastructure****Funding Opportunity Number:** NNH14ZDA001N-HIDEE**Pre-Application Deadline:** May 15, 2014**Application Deadline:** July 17, 2014

**Description:** The Heliophysics Infrastructure (H-I) program element supports ground-based facilities that are crucial to fulfilling the scientific potential of the NASA missions. Specific examples of Infrastructure facilities fall into three categories: 1) ground-based observations directly related to the scientific return of NASA mission data, 2) ground-based facilities crucial to the development and calibration of NASA flight instruments, and 3) ground-based instrumentation that directly supports NASA suborbital flights.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={FC73C9D9-1513-6714-962E-AE175D7E7E0A}&path=open>

**First Award Fellowship Program****Funding Opportunity Number:** NSBRI-RFA-14-02**Application Deadline:** June 6, 2014

**Description:** This National Space Biomedical Research Institute (NSBRI) Request for Applications (NSBRI-RFA) is soliciting applications for the First Award Fellowship Program. First Award Fellowships will be competitively awarded for two years, with an opportunity for a third year renewal, in any laboratory in the U.S. conducting biomedical/biotechnological research aligned with NSBRI's goals. First Award Fellowship Program applicants must prepare proposals with the support of a Mentor and institution (university, national lab, etc.), and all proposals will be objectively and rigorously scientifically and technically evaluated by the NSBRI First Award Fellowship Committee. <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7bE402E3C7-C5F0-6E84-F638-4390E01A0A3B%7d&path=open>

**Research Opportunities for ISS Utilization****Funding Opportunity Number:** NNJ13ZBG001N**Pre-Application Deadline:** August 29, 2014 (Cycle 7)**Application Deadline:** November 14, 2014 (Cycle 7)

**Description:** The ISS NASA Education Projects Office is soliciting proposals from higher education institutions or consortia of organizations and institutions serving higher education who have concepts for flight experiments or demonstrations that utilize the unique ISS microgravity environment and can be conducted in a "1 unit" (1U) Nanoracks NanoLab.

<http://nspires.nasaprs.com/external/solicitations/solicitationAmendments.do?method=init&solId={21E0270C-BC1F-EFC4-3D87-30713B5FF373}&path=open>

**Ocean Salinity Field Campaign****Funding Opportunity Number:** NNH14ZDA001N-OSFC**Pre-Application Deadline:** May 30, 2014**Application Deadline:** July 30, 2014

**Description:** The objective of this program element is to select additional members to the ongoing NASA Ocean Salinity Science Team for a 2015-16 Ocean Salinity Field Campaign in support of the science of the U.S./Comisión Nacional de Actividades Espaciales (CONAE) Aquarius/Satélite de Aplicaciones Científicas (SAC)-D mission and

joint Aquarius/SAC-D Science Team.

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={36D1A475-BAB2-EDCF-7608-37B93DD0E43E}&path=open>

## National Endowment for the Humanities

### **Bridging Cultures through Film**

**Funding Opportunity Number:** 20140611-TW

**Pre-Application Deadline:** N/A

**Application Deadline:** June 11, 2014

**Description:** NEH's Division of Public Programs supports activities that engage millions of Americans in understanding significant humanities works and ideas. The Bridging Cultures through Film: International Topics program supports films that examine international themes and subjects in the humanities. The films are meant to spark Americans' engagement with the broader world by exploring countries and cultures outside of the United States. The Division of Public Programs encourages innovative nonfiction storytelling that presents multiple points of view in creative formats. At the center of every NEH-funded film is a core set of humanities ideas developed by scholars, matched to imaginative formats that bring the humanities alive for people of all ages and all walks of life. The proposed film must be analytical and deeply grounded in humanities scholarship. It may be as short as thirty minutes or as long as a feature-length film. <http://www.neh.gov/grants/public/bridging-cultures-through-film-international-topics>

### **Bilateral Digital Humanities Program**

**Funding Opportunity Number:** 20140925-HG NEH/DFG

**Pre-Application Deadline:** N/A

**Application Deadline:** September 25, 2014

**Description:** The National Endowment for the Humanities (NEH) in the United States and the German Research Foundation (Deutsche Forschungsgemeinschaft e.V., DFG) are working together to offer support for projects that contribute to developing and implementing digital infrastructures and services for humanities research. In order to encourage new approaches and develop innovative methods in any field of the humanities, these grants provide funding for up to three years in any of the following areas: developing innovative methods as well as standards and best practices for building and merging digital collections that are significant and of major current interest, for use in humanities research; developing and implementing generic tools, methods, and techniques for accessing and processing digital resources relevant to humanities research; creating new digital modes of scholarly communication and publishing that facilitate international cooperation and dissemination of humanities scholarship; and developing models for effectively managing digital data generated in humanities research projects (for example, texts, audio files, photographs, 3D objects) and exemplifying those models in case studies. <http://www.neh.gov/grants/odh/nehdfg-bilateral-digital-humanities-program>

### **Digital Projects for the Public**

**Funding Opportunity Number:** 20140611-MD

**Pre-Application Deadline:** N/A

**Application Deadline:** June 11, 2014

**Description:** NEH's Division of Public Programs supports activities that engage millions of Americans in understanding significant humanities works and ideas. At the center of every NEH-funded public humanities project is a core set of humanities ideas developed by scholars, matched to imaginative formats that bring humanities ideas alive for people of all ages and all walks of life. The Digital Projects for the Public program supports projects such as websites, mobile applications, games, and virtual environments that significantly contribute to the public's engagement with humanities ideas. Projects must be analytical and deeply grounded in humanities scholarship in a discipline such as history, religion, anthropology, jurisprudence, or art history. Digital Projects for the Public grants support projects that are largely created for digital platforms. While these projects can take many forms, shapes, and sizes, you should apply to this program primarily to create digital projects or the digital components of a larger project. NEH is a national funding agency, so these projects should demonstrate the potential to attract a broad, general audience. Projects can have specific targeted audiences (including K-12 students), but they should also strive to cultivate a more inclusive audience. <http://www.neh.gov/grants/public/digital-projects-the-public>

## Humanities Initiatives

**Funding Opportunity Number:** 20140626-AB

**Pre-Application Deadline:** N/A

**Application Deadline:** June 26, 2014

**Description:** NEH Humanities Initiatives are intended to strengthen and enrich humanities education and scholarship at Hispanic-Serving Institutions, Historically Black Colleges and Universities, and Tribal Colleges and Universities. These grants may be used to enhance the humanities content of existing programs, develop new programs, or lay the foundation for more extensive endeavors in the future. Each project must be organized around a core topic or set of themes. <http://www.neh.gov/grants/humanities-initiatives>

## Humanities Collections and Reference Resources

**Funding Opportunity Number:** 20140717-PW

**Application Deadline:** July 17, 2014

**Description:** The Humanities Collections and Reference Resources (HCRR) program supports projects that provide an essential underpinning for scholarship, education, and public programming in the humanities. Thousands of libraries, archives, museums, and historical organizations across the country maintain important collections of books and manuscripts, photographs, sound recordings and moving images, archaeological and ethnographic artifacts, art and material culture, and digital objects. Funding from this program strengthens efforts to extend the life of such materials and make their intellectual content widely accessible, often through the use of digital technology. Awards are also made to create various reference resources that facilitate use of cultural materials, from works that provide basic information quickly to tools that synthesize and codify knowledge of a subject for in-depth investigation. HCRR offers two kinds of awards: 1) for implementation and 2) for planning, assessment, and pilot efforts (HCRR Foundations grants). <http://www.neh.gov/grants/preservation/humanities-collections-and-reference-resources>

## National Institutes of Health

**Consortium for Food Allergy Research (U19)**

**Funding Opportunity Number:** RFA-AI-14-003

**Application Receipt Date(s):** June 19, 2014

**Description:** This Funding Opportunity Announcement (FOA) solicits applications from single institutions to administer a multi-project multi-institution program, to conduct clinical research and assume the leadership and administrative responsibilities for the Consortium for Food Allergy Research (CoFAR). The selected applicant will continue the mission of the CoFAR, which focuses on immune and other intervention strategies for the prevention and treatment of food allergy, including food allergen-associated severe allergic reactions and anaphylaxis, and food allergen-associated eosinophilic esophagitis. The Consortium will conduct interventional trials with associated mechanistic studies, and observational/natural history and/or genetics studies with associated mechanistic studies, in order to understand better the immunopathogenesis of these conditions.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-003.html>

## Exploratory Clinical Trials of Novel Interventions for Mental Disorders (R21/R33)

**Funding Opportunity Number:** RFA-MH-15-300

**Application Receipt Date(s):** June 17, 2014, October 17, 2014, and February 17, 2015

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to support the efficient pilot testing of novel interventions for mental disorders in adults and children through an experimental therapeutics approach. Under this FOA, trials must be designed so that results, whether positive or negative, will provide information of high scientific utility and will support “go/no-go” decisions about further development or testing of the intervention. Studies of novel interventions include, but are not limited to behavioral, pharmacological, biologics-based, cognitive, device-based, interpersonal, physiological, or combined approaches. Support will be provided for up to two years (R21 phase) for preliminary milestone-driven testing and validating of the intervention’s mechanism of action, possibly followed by up to 3 years of support (R33 phase) for studies relating the mechanism to functional or clinical effects. Ultimately, this R21/R33 funding mechanism is intended to speed the translation of emerging basic science findings of mechanisms and processes underlying mental disorders into novel interventions that can be efficiently tested for their promise in restoring function and reducing symptoms for

those living with mental disorders. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-300.html>

### **Exploratory Clinical Trials of Novel Interventions for Mental Disorders (R33)**

**Funding Opportunity Number:** RFA-MH-15-310

**Application Receipt Date(s):** June 17, 2014, October 17, 2014, and February 17, 2015

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to support the efficient pilot testing of novel interventions for mental disorders in adults and children through an experimental therapeutics approach. Under this FOA, trials must be designed so that results, whether positive or negative, will provide information of high scientific utility and will support “go/no-go” decisions about further development or testing of the intervention. Studies of novel interventions include, but are not limited to behavioral, pharmacological, biologics-based, cognitive, device-based, interpersonal, physiological, or combined approaches. Support will be provided for testing and validating the intervention’s mechanism of action and for studies relating the mechanism to functional or clinical effects. Ultimately, this funding mechanism is intended to speed the translation of emerging basic science findings of mechanisms and processes underlying mental disorders into novel interventions that can be efficiently tested for their promise in restoring function and reducing symptoms for those living with mental disorders. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-310.html>

### **Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions (R01)**

**Funding Opportunity Number:** RFA-MH-15-320

**Application Receipt Date(s):** June 17, 2014, October 17, 2014, and February 17, 2015

**Description:** This Funding Opportunity Announcement (FOA) seeks to support investigator-initiated clinical trials to establish the effectiveness of interventions and to test hypotheses regarding moderators, mediators, and mechanisms of action of these interventions. This FOA supports clinical trials designed to test the therapeutic value of treatment and preventive interventions for which there is already evidence of efficacy, for use in community and practice settings. Applications might include research to evaluate the effectiveness or increase the clinical impact of pharmacologic, somatic, psychosocial (psychotherapeutic, behavioral), rehabilitative and combination interventions to prevent or treat mental illness. This FOA also supports clinical trials to test patient-, provider-, organizational-, or systems -level services interventions to improve service access, engagement, quality, coordination, or delivery, with the goal of improved outcomes at the individual and population level. The intervention research covered under this announcement is explicitly focused on practice-relevant questions. Applications must justify the potential impact of the proposed intervention/services models on practice and public health in terms of the magnitude of likely improvements in key outcomes (e.g., effect size, safety/tolerability profile, value and efficiency, and dissemination potential), as compared to existing approaches. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-320.html>

### **Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions (Collaborative R01)**

**Funding Opportunity Number:** RFA-MH-15-325

**Application Receipt Date(s):** June 17, 2014, October 17, 2014, and February 17, 2015

**Description:** This Funding Opportunity Announcement (FOA) seeks to support investigator-initiated collaborative clinical trials to establish the effectiveness of interventions and to test hypotheses regarding moderators, mediators, and mechanisms of action of these interventions. This FOA supports clinical trials designed to test the therapeutic value of treatment and preventive interventions for which there is already evidence of efficacy, for use in community and practice settings. Applications might include research to evaluate the effectiveness or increase the clinical impact of pharmacologic, somatic, psychosocial (psychotherapeutic, behavioral), rehabilitative and combination interventions to prevent or treat mental illness. This FOA also supports clinical trials to test patient-, provider-, organizational-, or systems -level services interventions to improve service access, engagement, quality, coordination, or delivery, with the goal of improved outcomes at the individual and population level. The intervention research covered under this announcement is explicitly focused on practice-relevant questions. Applications must justify the potential impact of the proposed intervention/services models on practice and public health in terms of the magnitude of likely improvements in key outcomes (e.g., effect size, safety/tolerability profile, value and efficiency, and dissemination potential), as compared to existing approaches. This FOA should be used when two or more sites are needed to complete the study. Accordingly, the collaborating studies share a specific protocol across the sites and are organized as such in order to increase sample

size, accelerate recruitment, or increase sample diversity and representation. Each site has its own Program Director/Principal Investigator and the program provides a mechanism for cross-site coordination, quality control, database management, statistical analysis, and reporting. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-325.html>

#### **Pilot Effectiveness Studies and Services Research Grants (R34)**

**Funding Opportunity Number:** RFA-MH-15-330

**Application Receipt Date(s):** June 17, 2014, October 17, 2014, and February 17, 2015

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to encourage pilot research consistent with NIMH's priorities for: 1) effectiveness research on interventions with previously demonstrated efficacy, for use with broader target populations or for use in community practice settings, and 2) innovative services research directions that require preliminary testing or development. Applications should provide resources for evaluating the feasibility, tolerability, acceptability and safety of approaches to improve mental health and modify risk factors, and for obtaining the preliminary data needed as a pre-requisite to a larger-scale intervention trial (e.g., comparative effectiveness study, practical trial) or large-scale services study. In this pilot phase of intervention and services research, NIMH places highest priority on approaches that can be justified in terms of their potential to substantially impact practice and public health and approaches that are empirically grounded. Specifically: 1) Applications should justify the potential impact of the proposed intervention/services models on practice and public health in terms of the magnitude of likely improvements in effect size, safety/tolerability profile, value and efficiency, or dissemination potential, as compared to existing approaches; 2) Adaptations or augmentations of efficacious interventions should only be undertaken if there is an empirical rationale for the adaptation target and for the corresponding mechanism by which the adapted intervention or augmentation is expected to substantially enhance outcomes; and 3) For pilot tests of intervention effectiveness or service delivery approaches, the study should be designed to explicitly address whether the intervention engages the mechanism that is presumed to underlie the intervention effects. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-330.html>

#### **Family-Centered Self-Management of Chronic Conditions (R01)**

**Funding Opportunity Number:** PA-14-112

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement seeks to build the science of family-centered self-management (FCSM) in chronic conditions. <http://grants.nih.gov/grants/guide/pa-files/PA-14-112.html>

#### **Family-Centered Self-Management of Chronic Conditions (R21)**

**Funding Opportunity Number:** PA-14-113

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement seeks to build the science of family-centered self-management (FCSM) in chronic conditions. <http://grants.nih.gov/grants/guide/pa-files/PA-14-113.html>

#### **Behavioral Interventions to Address Multiple Chronic Health Conditions in Primary Care (R01)**

**Funding Opportunity Number:** PA-14-114

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement (FOA) seeks Research Project Grant (R01) applications that propose to use a common conceptual model to develop behavioral interventions to modify health behaviors and improve health outcomes in patients with comorbid chronic diseases and health conditions. Specifically, this FOA will support research in primary care that uses a multi-disease care management approach to behavioral interventions with high potential impact to improve patient-level health outcomes for individuals with three or more chronic health conditions. The proposed approach must modify behaviors using a common approach rather than administering a distinct intervention for each targeted behavior and/or condition. Diseases and health conditions can include, but are not limited to: mental health disorders (e.g., depression), diabetes, smoking, obesity, chronic pain, alcohol and substance abuse and dependence, chronic obstructive pulmonary disorder, cancer and hypertension. <http://grants.nih.gov/grants/guide/pa-files/PA-14-114.html>

**Alcohol-Induced Effects on Tissue Injury and Repair (R01)****Funding Opportunity Number:** PA-14-123**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages Research Project Grant (R01) applications to study molecular and cellular mechanisms of tissue injury and repair associated with alcohol use in humans. Excessive alcohol consumption has the potential to adversely affect multiple organ systems including the liver, brain, heart, pancreas, lung, kidney, endocrine and immune systems, as well as bone and skeletal muscle. In addition, there is accumulating evidence that long term alcohol consumption is associated with reduced host capacity for recovery and repair following trauma. The mechanisms for these alcohol-induced effects on tissue injury and repair are currently not fully understood. NIAAA is especially interested in integrative research that elucidates alcohol's effects on complex mechanisms of injury and repair that are either common or specific to each organ system. This FOA also encourages the study of alcohol's effect on stem cells, embryonic development, and regeneration. Also encouraged are studies on molecular and cellular actions of moderate alcohol consumption. A better understanding of these underlying mechanisms may provide new avenues for developing more effective and novel approaches for prognosis, diagnosis, intervention, and treatment of alcohol-induced organ damage.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-123.html>

**Alcohol-Induced Effects on Tissue Injury and Repair (R21)****Funding Opportunity Number:** PA-14-124**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages Exploratory/Developmental Research Grant Award (R21) applications to study molecular and cellular mechanisms of tissue injury and repair associated with alcohol use in humans. Excessive alcohol consumption has the potential to adversely affect multiple organ systems including the liver, brain, heart, pancreas, lung, kidney, endocrine and immune systems, as well as bone and skeletal muscle. In addition, there is accumulating evidence that long term alcohol consumption is associated with reduced host capacity for recovery and repair following trauma. The mechanisms for these alcohol-induced effects on tissue injury and repair are currently not fully understood. NIAAA is especially interested in integrative research that elucidates alcohol's effects on complex mechanisms of injury and repair that are either common or specific to each organ system. This FOA also encourages the study of alcohol's effect on stem cells, embryonic development, and regeneration. Also encouraged are studies on molecular and cellular actions of moderate alcohol consumption. A better understanding of these underlying mechanisms may provide new avenues for developing more effective and novel approaches for prognosis, diagnosis, intervention, and treatment of alcohol-induced organ damage. <http://grants.nih.gov/grants/guide/pa-files/PA-14-124.html>

**Strengthening Adherence to Antiretroviral-Based HIV Treatment and Prevention (R21)****Funding Opportunity Number:** PA-14-125**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages research to understand and promote adherence to antiretroviral (ARV) regimens for HIV treatment and prevention. Studies addressing pre-exposure prophylaxis (PrEP) and antiretroviral therapy (ART) are the foci of this FOA. The overarching emphasis is on the development of feasible interventions to improve and sustain PrEP or ART adherence which could be rapidly implemented in clinical, community, and policy environments to improve HIV treatment and prevention outcomes. The R21 mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have an important impact on adherence research or practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-125.html>

**Strengthening Adherence to Antiretroviral-Based HIV Treatment and Prevention (R01)****Funding Opportunity Number:** PA-14-126**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages research to understand and promote

adherence to antiretroviral (ARV) regimens for HIV treatment and prevention. Studies addressing pre-exposure prophylaxis (PrEP) and antiretroviral therapy (ART) are the foci of this FOA. The overarching emphasis is on the development of feasible interventions to improve and sustain PrEP or ART adherence which could be rapidly implemented in clinical, community, and policy environments to improve HIV treatment and prevention outcomes. <http://grants.nih.gov/grants/guide/pa-files/PA-14-126.html>

### **Targeted Basic Behavioral, Social Science & Intervention Development for HIV Prevention and Care (R01)**

**Funding Opportunity Number:** PA-14-127

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The goal of this funding opportunity announcement (FOA) is to provide a global outline of areas for innovative, targeted basic behavioral and social science research and intervention development research to reduce the number of new HIV infections and improve the overall health of those living with HIV and encourage research grant applications in these areas. This FOA encourages research designed to (a) conduct basic behavioral and social science research that is needed to advance the development of HIV prevention and care interventions, (b) translate and operationalize the findings from these basic studies to develop interventions and assess their feasibility and (c) conduct tests of the efficacy of HIV prevention and care interventions. <http://grants.nih.gov/grants/guide/pa-files/PA-14-127.html>

### **Targeted Basic Behavioral, Social Science & Intervention Development for HIV Prevention and Care (R21)**

**Funding Opportunity Number:** PA-14-128

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The goal of this funding opportunity announcement (FOA) is to provide a global outline of areas for innovative, targeted basic behavioral and social science research and intervention development research to reduce the number of new HIV infections and improve the overall health of those living with HIV and encourage research grant applications in these areas. This FOA encourages research designed to (a) conduct basic behavioral and social science research that is needed to advance the development of HIV prevention and care interventions, (b) translate and operationalize the findings from these basic studies to develop interventions and assess their feasibility and (c) conduct tests of the efficacy of HIV prevention and care interventions. The R21 mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have a major impact on health research and practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available. <http://grants.nih.gov/grants/guide/pa-files/PA-14-128.html>

### **Improving Delivery of HIV Prevention and Treatment through Implementation Science and Translational Research (R21)**

**Funding Opportunity Number:** PA-14-129

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages research designed to increase the public health impact of efficacious HIV/AIDS-related interventions for prevention and treatment. To maximize the public health impact of available interventions, significant progress is needed to advance science designed to get interventions to the men, women, and children who need them. The goals of this scientific agenda are to learn how best to deliver interventions more efficiently and effectively in real-world communities and clinics, to more readily transfer interventions from one setting or population to another, and to make better-informed choices for combination intervention packages. The R21 mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have a major impact on health research and practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available. <http://grants.nih.gov/grants/guide/pa-files/PA-14-129.html>

**Accelerating Improvements in the HIV Care Continuum (R21)****Funding Opportunity Number:** PA-14-130**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages innovative studies to address gaps in HIV care continuum research. The HIV care continuum has provided a useful framework for tracking progress towards the National HIV/AIDS Strategy (NHAS) HIV-testing and HIV-treatment goals, and helped to guide a growing body of research to better understand and intervene at one or more steps in the continuum. Yet, there are some aspects of entering and remaining in HIV care that are relatively less studied than other areas, and merit urgent attention. The R21 mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have an important impact on adherence research or practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-130.html>

**Improving Delivery of HIV Prevention and Treatment through Implementation Science and Translational Research (R01)****Funding Opportunity Number:** PA-14-131**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages research designed to increase the public health impact of efficacious HIV/AIDS-related interventions for prevention and treatment. To maximize the public health impact of available interventions, significant progress is needed to advance science designed to get interventions to the men, women, and children who need them. The goals of this scientific agenda are to learn how best to deliver interventions more efficiently and effectively in real-world communities and clinics, to more readily transfer interventions from one setting or population to another, and to make better informed choices for combination intervention packages. <http://grants.nih.gov/grants/guide/pa-files/PA-14-131.html>

**Accelerating Improvements in the HIV Care Continuum (R01)****Funding Opportunity Number:** PA-14-132**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement (FOA) encourages innovative studies to address gaps in HIV care continuum research. The HIV care continuum has provided a useful framework for tracking progress towards the National HIV/AIDS strategy (NHAS) HIV-testing and HIV-treatment goals, and helped to guide a growing body of research to better understand and intervene at one or more steps in the continuum. Yet, there are some aspects of entering and remaining in HIV care that are relatively less studied than other areas, and merit urgent attention. <http://grants.nih.gov/grants/guide/pa-files/PA-14-132.html>

**Advancing Structural Level Interventions through Enhanced Understanding of Social Determinants in HIV Prevention and Care (R01)****Funding Opportunity Number:** PA-14-133**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages applications that propose to understand and address social determinants associated with the prevention and treatment of HIV. This FOA describes two research endeavors that are unique and overlapping. The first is to characterize those social determinants that are most relevant to HIV prevention and treatment outcomes, particularly in their association with inequities in HIV risk or disease outcomes. The second is to develop and test structural interventions aimed at reducing the negative impact or maximizing positive aspects of social determinants.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-133.html>

**Advancing Structural Level Interventions through Enhanced Understanding of Social Determinants in HIV Prevention and Care (R21)****Funding Opportunity Number:** PA-14-134**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages applications that propose to understand and address social determinants associated with the prevention and treatment of HIV. This FOA describes two research endeavors that are unique and overlapping. The first is to characterize those social determinants that are most relevant to HIV prevention and treatment outcomes, particularly in their association with inequities in HIV risk or disease outcomes. The second is to develop and test structural interventions aimed at reducing the negative impact or maximizing positive aspects of social determinants. The R21 mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have an important impact on adherence research or practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available. <http://grants.nih.gov/grants/guide/pa-files/PA-14-134.html>

### **First in Human and Early Stage Clinical Trials of Novel Investigational Drugs for Psychiatric Disorders (U01)**

**Funding Opportunity Number:** PAR-14-107

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to encourage cooperative agreement applications to support early stage clinical trials of novel mechanism of action, investigational drugs or drug candidates for the treatment of psychiatric disorders in areas of unmet medical need. The FOA will support milestone-driven early stage trials in pediatric and adult populations. First in human (FIH) and Phase Ib studies of novel Agents must assess target engagement (brain exposure), pharmacological effects, safety, and tolerability to assess feasibility for Phase II/proof of concept (PoC) studies in psychiatric disorders. PoC studies must evaluate the drug's impact on clinically relevant physiological systems (functional measures) and clinical indicators of effect. The FOA also supports feasibility and pilot studies of novel devices. The overall objective is to facilitate rapid collection of data to "de-risk" novel mechanism of action investigational drugs, novel drugs for use in pediatric populations with psychiatric disorders, devices or combination treatments in order to attract private funding for further clinical development as FDA-approved treatments. A key aspect of this FOA is the formation of collaborative partnerships between the biomedical researchers and biotechnology or industry researchers to facilitate psychiatric drug or device development. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-107.html>

### **Quantitative Imaging for Evaluation of Response to Cancer Therapies (U01)**

**Funding Opportunity Number:** PAR-14-116

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) invites research project - cooperative agreement (U01) applications which are expected to enhance the value of quantitative imaging (QI) in clinical trials for prediction and/or measurement of response to cancer therapies. One avenue for this enhancement is to emphasize the development, optimization and validation of state-of-the-art QI methods and software tools for potential implementation in single site phase 1 or 2 clinical trials. The second avenue to enhance QI methods is to address the challenges of integrating existing and or new QI methods as required for multicenter phase 3 clinical trials. This may involve evaluation of a range of multimodal imaging approaches, harmonization of image data collection, analysis, display and clinical workflow methods across imaging platforms, or testing their performance across different cancer sites. Because this validation process is complex, a single research program cannot be expected to complete every detail from initial tool development to final integration into clinical trials. Therefore, it is anticipated that these research goals will require multidisciplinary efforts. Although the involvement of industrial partners in the development of the QI methods is not required, it is strongly encouraged. Awardees will also join the Quantitative Imaging Network (QIN) to share ideas and approaches in order to validate and standardize imaging data and related imaging metadata for quantitative measurements of prediction and/or response to cancer therapies. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-116.html>

### **Technologies for Healthy Independent Living (R01)**

**Funding Opportunity Number:** PAR-14-118

**Application Receipt/Submission Date(s):** September 23, 2014; September 23, 2015; September 23, 2016  
**AIDS Date:** January 7, 2015; January 7, 2016; January 7, 2017

**Description:** This FOA encourages Research Project Grant (R01) applications for research and development of technologies that monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These systems are expected to integrate, process, analyze, communicate, and present data so that the individuals are engaged and empowered in their own healthcare with reduced burden to care providers. The development of these technology systems has the potential to significantly improve the quality of life for people with disabilities, people aging with mild impairments, as well as individuals with chronic conditions. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-118.html>

### **Design and Development of Novel Technologies for Healthy Independent Living (R21)**

**Funding Opportunity Number:** (PAR-14-119)

**Application Receipt/Submission Date(s):** September 23, 2014; September 23, 2015; September 23, 2016 AIDS Date: January 7, 2015; January 7, 2016; January 7, 2017

**Description:** This FOA encourages Exploratory/ Developmental Research Project (R21) applications for design and development of novel technologies to monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These may be novel sensor or monitoring systems, home-use point-of-care devices, home or mobile therapy or rehabilitation tools, or information systems and should have the goal of fostering healthy and independent living. The development of such technologies has the potential to significantly improve the quality of life for people with disabilities, people aging with mild impairments, as well as individuals with chronic conditions. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-119.html>

### **Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)**

**Funding Opportunity Number:** PAR-14-120

**Application Receipt/Submission Date(s):** May 25, 2014; May 25, 2015; May 25, 2016

**Description:** This Funding Opportunity Announcement (FOA) invites applications for Silvio O. Conte Centers for Basic or Translational Mental Health Research. The institute seeks teams of researchers working at different levels of analysis and employing integrative, novel, and creative experimental approaches to address high-risk, high-impact questions with the primary objective of: (a) advancing the state of the science in brain and behavior research that will ultimately provide the foundation for understanding mental disorders; (b) supporting the integration and translation of basic and clinical neuroscience research on severe mental illnesses; and/or (c) advancing our understanding of the neurobehavioral developmental mechanisms and trajectories of psychopathology that begin in childhood and adolescence. The Conte Centers program is intended to support interdisciplinary basic and/or translational research demonstrating an extraordinary level of synergy, integration, and potential for advancing the state of the field. This program is intended only for projects that could not be achieved using other, more standard grant mechanisms. The Conte Centers program also provides an opportunity to establish interdisciplinary basic and/or translational research experiences for individuals in training. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-120.html>

### **Initiative for Maximizing Student Development (IMSD) (R25)**

**Funding Opportunity Number:** PAR-14-121

**Application Receipt/Submission Date(s):** May 1, 2014; January 26, 2015; January 25, 2016

**Description:** The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The goal of this NIGMS R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. To this end, this funding opportunity announcement encourages the development of creative educational activities with a primary focus on research experiences, courses for skills development and mentoring activities. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-121.html>

### **Integrated Preclinical/Clinical AIDS Vaccine Development Program (IPCAVD) (U19)**

**Funding Opportunity Number:** PAR-14-122

**Application Receipt/Submission Date(s):** July 15, 2014; March 13, 2015: AIDS Date: July 15, 2014; March 13, 2015

**Description:** The goal of the IPCAVD Funding Opportunity Announcement (FOA) is to facilitate the translation of sufficiently advanced, innovative and promising vaccine candidates into early clinical testing. The IPCAVD program is designed to enable a multi-disciplinary team of investigators to complete all steps necessary from down-

selection of a vaccine candidate through CGMP manufacture/testing/product release and into clinical trials. A preclinical research application alone is not sufficient for this announcement. Awards will provide the critical resources to allow the advancement of vaccine concepts to clinical trials within the first 5 years of the award. However, this funding opportunity will not provide funds for conducting the clinical studies; applicants are encouraged to collaborate with NIAID-supported clinical trial networks or to develop other relationships to support the clinical studies. Investigators are expected to begin clinical studies no later than year five of the award. <http://grants.nih.gov/grants/guide/pa-files/PA-14-122.html>

### **Planning Grants for Alzheimer's Disease Translational Centers for Predictive Drug Development (R34)**

**Funding Opportunity Number:** RFA-AG-14-017

**Application Receipt Date(s):** May 15, 2014

**Description:** The purpose of this FOA is to solicit applications for planning grants that will support the preparation of full applications for NIA's Alzheimer's Disease Translational Centers for Predictive Drug Development (ADCPD) funding initiative. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-017.html>

### **Genomes to Natural Products (U01)**

**Funding Opportunity Number:** RFA-GM-15-001

**Application Receipt Date(s):** June 10, 2014

**Description:** This Funding Opportunity Announcement (FOA) solicits applications that utilize the wealth of genomic and metagenomic sequencing data available, and recent advances in synthetic biology for the purpose of developing new high-throughput and broadly applicable approaches to natural products discovery. Well-integrated, collaborative research teams possessing synthetic biology, bioinformatics, and natural products expertise are encouraged to apply. Applicants responding to this FOA must also plan for participation in trans-network activities, including collaborative projects with other network participants. <http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-15-001.html>

### **Prevention and Treatment of Substance Using Populations with or at Risk for HCV (R34)**

**Funding Opportunity Number:** PA-14-135

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement outlines priority areas for high impact clinical and basic research for at-risk substance using populations, including those infected with or at risk for HIV. In particular, this FOA encourages research focused on prevention and treatment of Hepatitis C Virus (HCV) to reduce new infections and identify and treat existing infections more effectively. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and Treatment of Viral Hepatitis. <http://grants.nih.gov/grants/guide/pa-files/PA-14-135.html>

### **Prevention and Treatment of Substance Using Populations with or at Risk for HCV (R21)**

**Funding Opportunity Number:** PA-14-136

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (R21) outlines priority areas for high impact clinical and basic research for at-risk substance using populations, including those infected with or at risk for HIV. In particular, this FOA encourages research focused on prevention and treatment of Hepatitis C Virus (HCV) to reduce new infections and identify and treat existing infections more effectively. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and Treatment of Viral Hepatitis. <http://grants.nih.gov/grants/guide/pa-files/PA-14-136.html>

### **Prevention and Treatment of Substance Using Populations with or at Risk for HCV (R01)**

**Funding Opportunity Number:** PA-14-137

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (R01) outlines priority areas for high impact clinical and basic research for at-risk substance using populations, including those infected with or at risk for HIV. In particular, this FOA encourages research focused on prevention and treatment of Hepatitis C Virus (HCV) to reduce new infections and identify and treat existing infections more effectively. This FOA is informed by priority areas in the 2011 HHS Action Plan, Combating the Silent Epidemic of Viral Hepatitis: Action Plan for the Prevention, Care and

Treatment of Viral Hepatitis. <http://grants.nih.gov/grants/guide/pa-files/PA-14-137.html>

### **Neuroimmune Mechanisms of Alcohol Related Disorders (R21)**

**Funding Opportunity Number:** PA-14-138

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This Funding Opportunity Announcement (FOA) encourages Exploratory/Developmental Research Project Grant (R21) applications from institutions/organizations that propose to study the neuroimmune mechanisms of alcohol related disorders. Studies using animal models and post-mortem human alcoholic brains suggest that alcohol exposure alters the neuroimmune system in the brain. However, it remains unclear how the altered neuroimmune signaling contributes to brain functional and behavioral changes associated with alcohol dependence. Recent studies reveal that neuroimmune molecules are expressed in neurons and glia, and play an important role in modulating synaptic function, neurodevelopment, and neuroendocrine function. These neuromodulatory properties, together with their essential roles in neuroinflammation, provide a new frame work to understand the role of neuroimmune factors in mediating neuroadaptation and behavioral phenotypes associated with alcohol use disorders. Studies supported by this FOA will provide fundamental insights of neuroimmune mechanisms underlying brain functional and behavioral changes induced by alcohol. <http://grants.nih.gov/grants/guide/pa-files/PA-14-138.html>

### **Neuroimmune Mechanisms of Alcohol Related Disorders (R01)**

**Funding Opportunity Number:** PA-14-139

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This FOA encourages Research Project Grant (R01) applications from institutions/organizations that propose to study the neuroimmune mechanisms of alcohol-related disorders. Studies using animal models and post-mortem human alcoholic brains suggest that alcohol exposure alters the neuroimmune system in the brain. However, it remains unclear how the altered neuroimmune signaling contributes to brain functional and behavioral changes associated with alcohol dependence. Recent studies reveal that neuroimmune molecules are expressed in neurons and glia, and play an important role in modulating synaptic function, neurodevelopment, and neuroendocrine function. These neuromodulatory properties, together with their essential roles in neuroinflammation, provide a new frame work to understand the role of neuroimmune factors in mediating neuroadaptation and behavioral phenotypes associated with alcohol use disorders. Studies supported by this FOA will provide fundamental insights of neuroimmune mechanisms underlying brain functional and behavioral changes induced by alcohol. <http://grants.nih.gov/grants/guide/pa-files/PA-14-139.html>

### **Community Partnerships to Advance Research (CPAR) (R15)**

**Funding Opportunity Number:** PA-14-140

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement encourages researchers to partner with communities using Community Engaged Research (CEnR) methodologies that will enhance relationships leading to better interventions and positive health outcomes. <http://grants.nih.gov/grants/guide/pa-files/PA-14-140.html>

### **Community Partnerships to Advance Research (CPAR) (R21)**

**Funding Opportunity Number:** PA-14-141

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement seeks to encourage researchers to partner with communities using Community Engaged Research (CEnR) methodologies that will enhance relationships leading to better interventions and positive health outcomes. <http://grants.nih.gov/grants/guide/pa-files/PA-14-141.html>

### **Community Partnerships to Advance Research (CPAR) (R01)**

**Funding Opportunity Number:** PA-14-142

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement (FOA) encourages researchers to partner with communities using Community Engaged Research (CEnR) methodologies that will enhance relationships leading to better interventions and positive health outcomes. <http://grants.nih.gov/grants/guide/pa-files/PA-14-142.html>

**Additional Research Training Positions for NIAAA-, NIDA-, or NCI-Supported NRSA Institutional Training (T32) Grants (Admin Supp)****Funding Opportunity Number:** PA-14-146**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This administrative supplement program provides up to three years of support for additional trainee positions on NIAAA-, NIDA-, or NCI-supported institutional Ruth L. Kirschstein National Research Service Award (NRSA) programs, in order to help meet the goals of Collaborative Research on Addiction at NIH (CRAN). NIAAA, NIDA, and NCI are interested in requests that propose research training in areas of mutual interest, namely cross-cutting areas of tobacco, alcohol, and other substance use, abuse, and addiction and related health-consequences. This program is intended for T32 programs that have an excellent record of filling their existing positions and have documented successful outcomes for their trainees. <http://grants.nih.gov/grants/guide/pa-files/PA-14-146.html>

**Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)****Funding Opportunity Number:** PA-14-147**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of the Kirschstein-NRSA predoctoral fellowship (F31) award is to enable promising predoctoral students to obtain individualized, mentored research training from outstanding faculty sponsors while conducting dissertation research in scientific health-related fields relevant to the missions of the participating NIH Institutes and Centers. The proposed mentored research training must reflect the applicant's dissertation research project and is expected to clearly enhance the individual's potential to develop into a productive, independent research scientist. <http://grants.nih.gov/grants/guide/pa-files/PA-14-147.html>

**Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31 - Diversity)****Funding Opportunity Number:** PA-14-148**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of this Kirschstein-NRSA predoctoral fellowship (F31) award is to enhance the diversity of the health-related research workforce by supporting the research training of predoctoral students from population groups that have been shown to be underrepresented in the biomedical, behavioral, or clinical research workforce. Such individuals include those from underrepresented racial and ethnic groups, those with disabilities, and those from disadvantaged backgrounds. Through this award program, promising predoctoral students will obtain individualized, mentored research training from outstanding faculty sponsors while conducting well-defined research projects in scientific health-related fields relevant to the missions of the participating NIH Institutes and Centers. The proposed mentored research training is expected to clearly enhance the individual's potential to develop into a productive, independent research scientist. <http://grants.nih.gov/grants/guide/pa-files/PA-14-148.html>

**Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (Parent F32)****Funding Opportunity Number:** PA-14-149**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of the Kirschstein-NRSA postdoctoral fellowship is to enhance the research training of promising postdoctoral candidates who have the potential to become productive, independent investigators in scientific health-related research fields relevant to the missions of the participating NIH Institutes and Centers. <http://grants.nih.gov/grants/guide/pa-files/PA-14-149.html>

**Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral MD/PhD or Other Dual-Doctoral Degree Fellowship (Parent F30)****Funding Opportunity Number:** PA-14-150**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of the Kirschstein-NRSA, dual-doctoral degree, predoctoral fellowship (F30) is to enhance the integrated research and clinical training of promising predoctoral students, who are matriculated in a

combined MD/PhD or other dual-doctoral degree training program (e.g. DO/PhD, DDS/PhD, AuD/PhD, DVM/PhD), and who intend careers as physician-scientists or other clinician-scientists. Applicants must propose an integrated research and clinical training plan and a dissertation research project in scientific health-related fields relevant to the missions of the participating NIH Institutes and Centers. The fellowship experience is expected to clearly enhance the individuals' potential to develop into productive, independent physician-scientists or other clinician-scientists. <http://grants.nih.gov/grants/guide/pa-files/PA-14-150.html>

### **Ruth L. Kirschstein National Research Service Awards (NRSA) for Individual Senior Fellowship (Parent F33)**

**Funding Opportunity Number:** PA-14-151

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The National Institutes of Health (NIH) awards senior individual research training fellowships to experienced scientists who wish to make major changes in the direction of their research careers or who wish to broaden their scientific background by acquiring new research capabilities as independent investigators in research fields relevant to the missions of participating NIH Institutes and Centers. <http://grants.nih.gov/grants/guide/pa-files/PA-14-151.html>

### **Establishing Behavioral and Social Measures for Causal Pathway Research in Dental, Oral and Craniofacial Health (R01)**

**Funding Opportunity Number:** PAR-14-143

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of this funding opportunity announcement is to encourage the establishment of measures of specific behavioral or social phenomena that can be used to test causal hypotheses about behavioral and social contributors to dental, oral or craniofacial diseases. This announcement encourages the development and testing--or the adaptation and testing--of two types of measures: 1) measures of the health behaviors, social interactions, community characteristics, built environments, etc., targeted by behavioral or social interventions to improve oral health; and/or 2) measures of the hypothesized moderators and mediators of a behavioral or social intervention's effect. Regardless of the type of measure being developed, applications should establish reliability and validity of the measure, and demonstrate acceptability of using the measure with the target population. Note that this announcement does not support the conduct of clinical trials, consistent with the NIDCR policy for acceptance, peer review, and funding of clinical trials (see NOT-DE-11-002). <http://grants.nih.gov/grants/guide/pa-files/PAR-14-143.html>

### **Establishing Behavioral and Social Measures for Causal Pathway Research in Dental, Oral and Craniofacial Health (R21)**

**Funding Opportunity Number:** PAR-14-144

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The purpose of this funding opportunity announcement is to encourage the establishment of measures of specific behavioral or social phenomena that can be used to test causal hypotheses about behavioral and social contributors to dental, oral or craniofacial diseases. This announcement encourages the development and testing--or the adaptation and testing--of two types of measures: 1) measures of the health behaviors, social interactions, community characteristics, built environments, etc., targeted by behavioral or social interventions to improve oral health; and/or 2) measures of the hypothesized moderators and mediators of a behavioral or social intervention's effect. Regardless of the type of measure being developed, applications should establish reliability and validity of the measure, and demonstrate acceptability of using the measure with the target population. Note that this announcement does not support the conduct of clinical trials, consistent with the NIDCR policy for acceptance, peer review, and funding of clinical trials (see NOT-DE-11-002). <http://grants.nih.gov/grants/guide/pa-files/PAR-14-144.html>

### **NIBIB Biomedical Technology Service Centers (P30)**

**Funding Opportunity Number:** PAR-14-145

**Application Receipt/Submission Date(s):** May 25, 2014; AIDS Date: September 7, 2014

**Description:** This Funding Opportunity Announcement (FOA) encourages grant applications for Biomedical Technology Service Centers (P30 Centers) that support infrastructure and resources that are needed by a diverse

group of funded NIH researchers, but are not widely available. Consistent with this function, NIBIB P30 Centers should engage in dissemination activities and may engage in training activities. Infrastructure and resources in an NIBIB P30 Center could range from shared biomedical instrumentation to open bioinformatics systems.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-145.html>

### **Partnerships for Diagnostics to Address Antimicrobial Resistance of Select Bacterial Pathogens (R01)**

**Funding Opportunity Number:** [RFA-AI-14-019](#)

**Application Receipt Date(s):** June 19, 2014

**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to solicit research applications for projects focused on development and/or production of diagnostics that will enable rapid, sensitive, specific, culture-independent detection of high-priority antimicrobial-resistant Gram-negative bacterial pathogens. This FOA is focused on select healthcare-associated bacteria where resistance compromises effective treatment, including: *Klebsiella pneumoniae*, *Acinetobacter baumannii*, *Pseudomonas aeruginosa*, *Enterobacter* species and extra-intestinal pathogenic *Escherichia coli*. Applications must include a Product Development Strategy and demonstrate substantive participation by at least one industrial participant. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-019.html>

### **Accelerating the Dissemination and Implementation of PCOR Findings into Primary Care Practice (R18)**

**Funding Opportunity Number:** RFA-HS-14-008

**Application Receipt Date(s):** July 3, 2014

**Description:** The Agency for Healthcare Research and Quality (AHRQ) seeks applications to disseminate Patient-Centered Outcomes Research (PCOR) findings directly to primary care practices and to support them in implementing PCOR clinical and organizational findings. Applicants must propose a comprehensive approach that uses evidence-based quality improvement strategies, such as practice facilitation, designed to improve the capacity of primary care practices to implement new PCOR evidence into the delivery of care. Applicants must work with primary care practices to utilize PCOR findings to improve the percentage of patients successfully managing blood pressure and high blood cholesterol, and who are receiving advice and support from health care professionals about taking aspirin to prevent heart disease and to quit smoking. Applications must also rigorously evaluate their initiatives and contribute to an overarching evaluation. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HS-14-008.html>

### **Evaluation of AHRQ Initiative to Accelerate the Dissemination and Implementation of PCOR Findings into Primary Care (R01)**

**Funding Opportunity Number:** RFA-HS-14-009

**Application Receipt Date(s):** July 3, 2014

**Description:** This AHRQ Funding Opportunity Announcement (FOA) invites applications to conduct a rigorous external evaluation of an AHRQ grant-funded initiative to disseminate and implement PCOR findings to improve heart health and to improve the capacity of primary care practices to implement PCOR findings into practice. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HS-14-009.html>

### **Early Stage Development of Technologies in Biomedical Computing, Informatics, and Big Data Science (R01)**

**Funding Opportunity Number:** [\(PA-14-155\)](#)

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. This initiative aims to address biomedical research areas in biomedical computing, informatics, and Big Data science through the early stage development of new software, tools and

related resources, as well as the fundamental research (e.g., methodologies and approaches) leading up to that development. <http://grants.nih.gov/grants/guide/pa-files/PA-14-155.html>

### **Extended Development, Hardening and Dissemination of Technologies in Biomedical Computing, Informatics and Big Data Science (R01)**

**Funding Opportunity Number:** [\(PA-14-156\)](#)

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** The goal of this program announcement is to support the extended development, maintenance, testing, evaluation, hardening and dissemination of existing biomedical software. The NIH is interested in promoting a broad base of research and development of technologies in biomedical computing, informatics, and Big Data Science that will support rapid progress in areas of scientific opportunity in biomedical research. It is expected that this research and development is conducted in the context of important biomedical and behavioral research problems and that domain researchers are consulted to make sure that the software is relevant to users. As such, applications are intended to develop enabling technologies that could apply to the interests of most NIH Institutes and Centers and range from basic biomedicine and including research to all relevant organ systems and diseases. Major themes of research include collaborative environments; data integration; analysis and modeling methodologies; and novel computer science and statistical approaches. New opportunities are also emerging as large and complex data sets are becoming increasingly available to the research community. The proposed work should apply best practices and proven methods for software design, construction, and implementation to extend the applicability of existing technologies in biomedical computing, informatics and big data science to a broader biomedical research community. <http://grants.nih.gov/grants/guide/pa-files/PA-14-156.html>

### **Feasibility Studies to Build Collaborative Partnerships in Cancer Research (P20)**

**Funding Opportunity Number:** [PAR-14-152](#)

**Application Receipt/Submission Date(s):** **May 16, 2014**; March 19, 2015

**Description:** This Funding Opportunity Announcement (FOA) invites P20 planning grant applications for the implementation of collaborative partnership awards between Institutions serving communities with cancer health disparities and NCI-designated Cancer Centers (or Cancer Centers with highly integrated cancer research programs). For the purpose of this FOA, "the Institution(s)" will refer to academic or other organizations serving communities with cancer health disparities. This FOA is designed to facilitate the planning and execution of focused collaborations in cancer-related research, training/career development, and education. A major goal of the NCI P20 partnership awards is to provide support for investigators at the Institutions and Cancer Centers to conduct cancer pilot projects and training and education programs. The pilot projects and programs will allow awardees to obtain preliminary data and lead to competitive grant applications for funding by the NIH/NCI and/or other Federal/Non-Federal agencies. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-152.html>

### **Temporal Dynamics of Neurophysiological Patterns as Potential Targets for Treating Cognitive Deficits in Brain Disorders (R01)**

**Funding Opportunity Number:** [PAR-14-153](#)

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** A rich body of evidence suggests that cognitive processes are associated with particular patterns of neural activity. These data indicate that oscillatory rhythms, their co-modulation across frequency bands, spike-phase correlations, spike population dynamics, and other patterns might be useful drivers of therapeutic development for cognitive improvement in neuropsychiatric disorders. This initiative encourages applications to test whether modifying electrophysiological patterns during behavior can improve cognitive abilities. Applications should use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in behaving animals, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognition; (2) in animals or humans, determine how particular abnormalities at the cellular or molecular level, such as specific receptor dysfunction, affect the coordination of electrophysiological patterns during behavior; (3) determine whether in vivo, systems-level electrophysiological changes in behaving animals predict analogous electrophysiological and cognitive improvements in normal humans or clinical populations; and (4) use systems-level computational modeling to develop a principled understanding of the function and mechanisms by which oscillatory and other electrophysiological temporal dynamic patterns unfold across the brain (cortically and subcortically) to impact

cognition. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-153.html>

### **Temporal Dynamics of Neurophysiological Patterns as Potential Targets for Treating Cognitive Deficits in Brain Disorders (R21)**

**Funding Opportunity Number:** PAR-14-158

**Application Receipt/Submission Date(s):** May 7, 2017

**Description:** A rich body of evidence suggests that cognitive processes are associated with particular patterns of neural activity. These data indicate that oscillatory rhythms, their co-modulation across frequency bands, spike-phase correlations, spike population dynamics, and other patterns might be useful drivers of therapeutic development for cognitive improvement in neuropsychiatric disorders. This initiative encourages applications to test whether modifying electrophysiological patterns during behavior can improve cognitive abilities. Applications should use experimental designs that incorporate active manipulations to address at least one, and ideally more, of the following topics: (1) in behaving animals, determine which parameters of neural coordination, when manipulated in isolation, improve particular aspects of cognition; (2) in animals or humans, determine how particular abnormalities at the cellular or molecular level, such as specific receptor dysfunction, affect the coordination of electrophysiological patterns during behavior; (3) determine whether in vivo, systems-level electrophysiological changes in behaving animals predict analogous electrophysiological and cognitive improvements in normal humans or clinical populations; and (4) use systems-level computational modeling to develop a principled understanding of the function and mechanisms by which oscillatory and other electrophysiological temporal dynamic patterns unfold across the brain (cortically and subcortically) to impact cognition. The R21 grant mechanism is specifically intended to encourage new exploratory and developmental research projects. These studies should break new ground or extend previous discoveries toward new directions or applications. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel methodologies, tools, technologies, or interventions that could have a major impact on health research and practice. Unlike applications under the R01 mechanism, preliminary data are not required for R21 applications. Preliminary data may nonetheless be included if available.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-158.html>

### **Modeling Immunity for Biodefense (U19)**

**Funding Opportunity Number:** RFA-AI-14-028

**Application Receipt Date(s):** July 18, 2014

**Description** This Funding Opportunity Announcement (FOA) solicits applications from single institutions, or consortia of institutions, to participate in a network of research groups developing computational models of immunity to infectious diseases other than HIV/AIDS. Applications are sought to develop, refine and validate computational models of immune responses (1) during or following infection, and/or (2) before and after vaccination against an infectious disease, through an iterative approach involving computational studies and immunological experimentation. The main goal of this FOA is to advance our understanding of the complex immune mechanisms triggered by infection and/or vaccination through the development and application of computational models of immunity, coupled with immunological experimentation to validate and improve the utility and robustness of the computational models. Another goal of this FOA is to make the computational models and data developed under this initiative readily available to the broader research community for further refinement or direct use in biological experimentation. This program will also support pilot projects, workshops, and symposia to foster the use of computational models of immunity by the broader research community.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-028.html>

### **Atopic Dermatitis Research Network (ADRN) (U19)**

**Funding Opportunity Number:** RFA-AI-14-033

**Application Receipt Date(s):** July 8, 2014

**Description** This Funding Opportunity Announcement (FOA) solicits applications from institutions to administer a multi-project, multi-institution program to conduct clinical research and provide the leadership and administrative responsibilities for the Atopic Dermatitis Research Network (ADRN). The ADRN conducts clinical research studies to better understand host defense mechanisms in the skin, by comparing responses to infections and vaccines, and underlying mechanisms, in healthy, non-atopic individuals vs. those with atopic dermatitis (AD). Such effects include skin barrier and adaptive and innate immune system responses to viral and bacterial infections,

and genetic and epigenetic studies. The scope of research supported under this FOA will include the role of the microbiome in regulating host defense, and the development of clinical interventions to enhance host defense. The FOA will also support the conduct of longitudinal studies aiming at the identification of AD phenotypes pertaining to clinical presentation, skin and peripheral blood immunologic responses and patterns of cutaneous host defense. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-033.html>

### **Accelerating Medicines Partnership (AMP) in Rheumatoid Arthritis and Lupus: Network Leadership Center (UM2)**

**Funding Opportunity Number:** RFA-AR-14-015

**Application Receipt Date(s):** May 21, 2014

**Description** The purpose of this FOA is to solicit applications for the Accelerating Medicines Partnership (AMP) in Rheumatoid Arthritis (RA) and Lupus Network Leadership Center. The AMP RA and Lupus Network is designed to ascertain and define shared and disease-specific biological pathways in order to identify relevant drug targets for the treatment of autoimmune diseases. This program will involve an enhanced systems-level understanding of gene expression and signaling in target tissues from affected end organs and peripheral blood cells. The Network Leadership Center will: (i) direct and coordinate the scientific activities of the Network; (ii) monitor and evaluate scientific progress and performance; (iii) define Network research priorities; (iv) develop the Network research agenda; (v) provide centralized scientific/technical research resources for data management/coordination, statistical design/analyses and tissue acquisition; and (vi) conduct systems biology and bioinformatics research. A companion FOA will establish the Network Research Sites, including: (i) Clinical Research Sites to assemble patient cohorts and obtain comprehensive clinical and laboratory data and relevant specimens to enable deconstruction of key events in cells and tissues related to disease, disease severity, and response to therapy; (ii) Technology Research Sites to develop, test, standardize and validate advanced and new technologies to identify critical signaling pathways in cells and tissues; or (iii) Combined Clinical and Technology Research Sites to conduct clinical and early validation studies of novel technologies and analytics in rheumatoid arthritis, lupus and related autoimmune diseases. Awardees under both FOAs will work collaboratively to establish the AMP RA and Lupus Network. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AR-14-015.html>

### **Accelerating Medicines Partnership (AMP) in Rheumatoid Arthritis and Lupus: Network Research Sites (UH2/UH3)**

**Funding Opportunity Number:** RFA-AR-14-016

**Application Receipt Date(s):** May 21, 2014

**Description** The purpose of this FOA is to solicit applications for the Accelerating Medicines Partnership (AMP) in Rheumatoid Arthritis (RA) and Lupus Network Research Sites. The AMP RA and Lupus Network is designed to ascertain and define shared and disease-specific biological pathways in order to identify relevant drug targets for the treatment of autoimmune diseases. This program will involve an enhanced systems-level understanding of gene expression and signaling in target tissues from affected end organs and peripheral blood cells. Awards made through this FOA will support an initial milestone-driven UH2 (Exploratory) funding period, with possible rapid transition to the UH3 (Implementation) funding period for a large validation project. UH3s will be awarded after administrative review of eligible UH2s that have met the scientific milestones and feasibility requirements necessary for the UH3, depending on the availability of funds. The UH2/UH3 projects must be submitted as part of a single application. Applications may be submitted for (i) Clinical Research Sites to assemble patient cohorts and obtain comprehensive clinical and laboratory data and relevant specimens to enable deconstruction of key events in cells and tissues related to disease, disease severity, and response to therapy, (ii) Technology Research Sites to develop, test, standardize and validate advanced and new technologies to identify critical signaling pathways in cells and tissues, or (iii) Combined Clinical and Technology Research Sites to conduct clinical and early validation studies of novel technologies and analytics in RA, lupus and related autoimmune diseases. The Network Leadership Center will: (i) direct and coordinate the scientific activities of the Network; (ii) monitor and evaluate scientific progress and performance; (iii) define Network research priorities; (iv) develop the Network research agenda; (v) provide centralized scientific/technical research resources for data management/coordination, statistical design/analyses and tissue acquisition; and (vi) conduct systems biology and bioinformatics research. Awardees under both FOAs will work collaboratively to establish the AMP RA and Lupus Network. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AR-14-016.html>

**Characterization of Critical Quality Attributes for Semisolid Topical Drug Products (U01)****Funding Opportunity Number:** RFA-FD-14-010**Application Receipt Date(s):** June 1, 2014

**Description** To continue making safe and effective topical semisolid drug products available to the American public, it is essential that FDA's regulatory science, as well as best practices in the pharmaceutical industry, are informed by the most current understanding of the product quality attributes that are potentially critical to the therapeutic performance of topical semisolid dosage forms. The scope of this project is to characterize all measurable physical/chemical qualities of different dosage forms of semisolid topical drug products, identify appropriate methodologies for measuring each of these quality attributes, characterize formulation and manufacturing parameters that alter the arrangement of matter in the dosage form as measured by specific quality attributes, and utilize in vitro and/or in vivo measures of product performance to correlate variations in critical quality attributes with a failure mode for a drug product. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-010.html>

**Pharmacometric Modeling and Simulation for Generic Drugs Evaluation (U01)****Funding Opportunity Number:** RFA-FD-14-011**Application Receipt Date(s):** June 1, 2014

**Description** The purpose of this project is to develop quantitative pharmacometric models for generic drugs evaluation, in the following areas (1) narrow therapeutic index (NTI) drugs, (2) generic drug substitutability and post marketing risk assessment, and (3) partial AUCs (area under the concentration vs. time curve) as bioequivalence criteria. Each area is a subtopic of this grant and described in Section I. Funding Opportunity Description in detail. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-011.html>

**Physiologically Based Absorption and Pharmacokinetic Modeling and Simulation for Non-gastrointestinally Absorbed Drug Products in Humans (U01)****Funding Opportunity Number:** RFA-FD-14-012**Application Receipt Date(s):** June 1, 2014

**Description** The purpose of this project to develop physiologically based absorption and pharmacokinetic (PK) models for complex drug products, such as locally acting drug products and non-biological complex parenteral drug products. Research should target the general purpose of impacting generic drug product guidance preparation, development of generic formulations by industry, and generic drug product evaluation for the areas described in Section I, Funding Opportunity Description. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-012.html>

**Data Coordinating Center for the Collaborative Pediatric Critical Care Research Network (U01)****Funding Opportunity Number:** RFA-HD-14-020**Application Receipt Date(s):** June 2, 2014

**Description** The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) invites applications from investigators willing to participate with the NICHD under a cooperative agreement (U01) as the Data Coordinating Center (DCC) in an ongoing multicenter clinical program, the Collaborative Pediatric Critical Care Research Network (CPCCRN) designed to carry out research in pediatric critical care. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-14-020.html>

**Collaborative Pediatric Critical Care Research Network (UG1)****Funding Opportunity Number:** RFA-HD-14-022**Application Receipt Date(s):** June 2, 2014

**Description** This funding opportunity announcement (FOA) invites applications from institutions proposing to serve as Clinical Sites in NICHD's multi-center Collaborative Pediatric Critical Care Research Network (CPCCRN). The research network is designed to investigate the efficacy of treatment and management strategies to care for critically ill and injured children, as well as to better understand the pathophysiological bases of critical illness and injury in childhood. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-14-022.html>

**Translational Research to Help Older Adults Maintain their Health and Independence in the Community (R21)****Funding Opportunity Number:** PA-14-159

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description** This Funding Opportunity Announcement (FOA) invites applications using the R21 award mechanism for translational research that moves evidence-based research findings toward the development of new interventions, programs, policies, practices, and tools that can be used by organizations in the community to help older adults remain healthy and independent, productively engaged, and living in their own homes and communities. The goal of this FOA is to support translational research involving collaborations between academic research centers and community-based organizations with expertise serving or engaging older adults (such as city and state health departments, city/town leadership councils, educational institutions, workplaces, Area Agencies on Aging, and organizations funded or assisted by the Corporation for National and Community Service) that will enhance our understanding of practical tools, techniques, programs and policies that communities across the nation can use to more effectively respond to needs of the aging population.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-159.html>

### **Translational Research to Help Older Adults Maintain their Health and Independence in the Community (R01)**

**Funding Opportunity Number:** PA-14-161

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description** This Funding Opportunity Announcement (FOA) invites applications using the R01 award mechanism for translational research that moves evidence-based research findings toward the development of new interventions, programs, policies, practices, and tools that can be used by organizations in the community to help older adults remain healthy and independent, productively engaged, and living in their own homes and communities. The goal of this FOA is to support translational research involving collaborations between academic research centers and community-based organizations with expertise serving or engaging older adults (such as city and state health departments, city/town leadership councils, educational institutions, workplaces, Area Agencies on Aging, and organizations funded or assisted by the Corporation for National and Community Service) that will enhance our understanding of practical tools, techniques, programs and policies that communities across the nation can use to more effectively respond to needs of the aging population.

<http://grants.nih.gov/grants/guide/pa-files/PA-14-161.html>

### **Core Infrastructure and Methodological Research for Cancer Epidemiology Cohorts (U01)**

**Funding Opportunity Number:** PAR-14-160

**Application Receipt/Submission Date(s):** July 8, 2014; November 10, 2014; March 11, 2015; July 8, 2015; November 10, 2015; March 11, 2016; July 8, 2016; November 10, 2016; March 10, 2017

**Description** The Funding Opportunity Announcement (FOA) invites grant applications for targeted infrastructure support of the core functions of Cancer Epidemiology Cohorts (CECs) and methodological research. Through this FOA, the National Cancer Institute (NCI) will support infrastructure and core functions for existing or new CECs. This FOA will also lead to support of core functions for CECs currently funded through other grant mechanisms by the Epidemiology and Genomics Research Program (EGRP) and other components of the Division of Cancer Control and Population Sciences (DCCPS) at the NCI. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-160.html>

### **Claude D. Pepper Older Americans Independence Centers (P30)**

**Funding Opportunity Number:** (RFA-AG-15-003)

**Application Receipt Date(s):** June 24, 2014

**Description:** This FOA supports applications for Claude D. Pepper Older Americans Independence Centers (OAICs) centers of excellence in geriatrics research and research career development. The OAIC awards are designed to develop or strengthen awardee institutions' programs that focus and sustain progress on a key area in aging research. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-003.html>

### **Avenir Award Program for Research on Substance Abuse and HIV/AIDS (DP2)**

**Funding Opportunity Number:** (RFA-DA-15-007)

**Application Receipt Date(s):** November 12, 2014, November 12, 2015, November 14, 2016

**Description:** Avenir means future in French, and this award looks toward the future by supporting early stage investigators proposing highly innovative studies. The award will support those in an early stage of their career who may lack the preliminary data required for an R01 grant, but who propose high impact research and who show

promise of being tomorrow's leaders in the field. NIDA has developed two Avenir Award Programs, one for HIV/AIDS research and the other for genetics or epigenetics studies. The Avenir Award Program for Research on Substance Abuse and HIV/AIDS will support creative individuals who wish to pursue innovative research at the nexus of substance abuse and HIV/AIDS. The Avenir Award Program for Research on Substance Abuse and HIV/AIDS will support research approaches for substance using populations with or at risk for HIV/AIDS that may lead to improved preventive interventions, improved therapies and/or long term retention in care, and ultimately, eradication of HIV. <http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-15-007.html>

#### **Evaluation of In Vitro Release Methods for Liposomal Drug Products (U01)**

**Funding Opportunity Number:** (RFA-FD-14-016)

**Application Receipt Date(s):** June 1, 2014

**Description:** The development of generic liposomal drug products face challenges because of a lack of compendial or bio-relevant in vitro release methods. These challenges contribute to the limited access to essential medicines in many countries. This study aims to evaluate different in vitro release assays in terms of their capacity in detecting formulation differences and predicting in vivo release of liposomal drug products. Using amphotericin B, daunorubicin citrate, or vincristine sulfate liposomal injection as a model drug product, we expect a grantee to conduct in vitro release studies under multiple conditions, perform in vivo pharmacokinetics and biodistribution studies in animal model, collect literature report on human pharmacokinetics data, and establish an in silico platform to explore the in vivo in vitro correlation of liposomal drug products. Results from this study will advance the regulatory review process and ultimately improve public access to quality generic liposomal drug products. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-016.html>

#### **Development of Clinically Relevant In Vitro Performance Test for Generic OIDPs: Physiologically Relevant Models for Aerodynamic Particle Size Distribution Analysis (U01)**

**Funding Opportunity Number:** (RFA-FD-14-022)

**Application Receipt Date(s):** June 1, 2014

**Description:** The goal of this project is to investigate if realistic physical mouth-throat (MT) models provide better predictability over pharmaceutical induction port assembly, for aerodynamic particle size distribution (APSD) characterization of orally inhaled drug products (OIDPs). Because there are different MT models proposed in the literature, in vivo predictability of several pre-screened MT models will be evaluated under different flow rate conditions, to select the optimal model(s). Upon successful completion, this research will provide a more realistic APSD characterization method that can be used as a pharmaceutical development tool in the early stages of OIDP development. <http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-022.html>

#### **Novel Tools for Investigating Brain-derived GPCRs in Mental Health Research (R41/R42)**

**Funding Opportunity Number:** (PA-14-171)

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement (FOA) encourages Small Business Technology Transfer (STTR) grant applications from small business concerns (SBCs) that propose to develop technologies and approaches (i.e., novel ways to use new or existing technologies) that will enable researchers to study the structure and/or function of brain localized G-protein coupled receptor proteins (GPCRs) and/or potentially identify novel selective and specific agonists/antagonists to these receptor subtypes, with a focus on mental health function or dysfunction, including HIV-related neurocognitive disorders. Technologies and approaches aimed at known receptor subtypes or orphan receptors would be of potential interest to NIMH. <http://grants.nih.gov/grants/guide/pa-files/PA-14-171.html>

#### **Novel Tools for Investigating Brain-derived GPCRs in Mental Health Research (R43/R44)**

**Funding Opportunity Number:** (PA-14-172)

**Application Receipt/Submission Date(s):** Multiple dates, see announcement.

**Description:** This funding opportunity announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that propose to develop technologies and approaches (i.e., novel ways to use new or existing technologies) that will enable researchers to study the structure and/or function of brain localized G-protein coupled receptor proteins (GPCRs) and/or potentially identify novel selective and specific agonists/antagonists to these receptor subtypes, with a focus on mental health function or

dysfunction, including HIV-related neurocognitive disorders. Technologies and approaches aimed at known receptor subtypes or orphan receptors would be of potential interest to NIMH. <http://grants.nih.gov/grants/guide/pa-files/PA-14-172.html>

#### **Physical Sciences-Oncology Centers (U54)**

**Funding Opportunity Number:** (PAR-14-169)

**Application Receipt/Submission Date(s):** June 9, 2014; February 26, 2015; November 25, 2015

**Description:** This Funding Opportunity Announcement (FOA) invites U54 cooperative agreement applications for Physical Science-Oncology Centers (PS-OCs). The PS-OCs will serve as hubs for the collaborative Physical Sciences-Oncology Network (PS-ON). The goal of the PS-OC Program and broader Network is to promote a physical sciences perspective of cancer and foster the convergence of physical science and cancer research by, forming transdisciplinary teams of physical scientists (e.g., engineers, chemists, computer scientists, mathematicians, physicists) and cancer researchers (e.g., cancer biologists, oncologists, pathologists) to work closely together to advance our understanding of cancer biology and oncology. The PS-OCs, individually and as a Network, will support transdisciplinary research that: (1) establishes a physical sciences perspective within the cancer research community; (2) facilitates team science and field convergence at the intersection of physical sciences and cancer research; and (3) collectively tests physical sciences-based experimental and theoretical concepts of cancer and promotes innovative solutions to address outstanding questions in cancer research.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-169.html>

#### **Innovative Programs to Enhance Research Training (IPERT) (R25)**

**Funding Opportunity Number:** (PAR-14-170)

**Application Receipt/Submission Date(s):** June 9, 2014; January 25, 2015; January 25, 2016

**Description:** The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The Innovative Programs to Enhance Research Training (IPERT) R25 funding opportunity announcement from NIGMS seeks applications that propose creative and innovative educational activities to complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. The goal of this NIGMS R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To this end, this funding opportunity announcement encourages activities with a primary focus on courses for skills development, structured mentoring activities, and outreach programs. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-170.html>

#### **Development of Realistic In Vitro Studies to Assess Robustness of Dose Counters/Indicators in Metered Dose Inhalers (U01)**

**Funding Opportunity Number:** RFA-FD-14-025

**Application Receipt Date(s):** June 1, 2014

**Description:** The goal of this study is to develop clinically relevant in vitro studies to assess robustness of dose counters/indicators in metered dose inhalers (MDIs) representing the actual-use/misuse conditions.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-025.html>

#### **Dimensional Approaches to Research Classification in Psychiatric Disorders (R01)**

**Funding Opportunity Number:** RFA-MH-15-500

**Application Receipt Date(s):** October 3, 2014

**Description:** This Funding Opportunity Announcement (FOA) seeks research grant applications designed to develop innovative ways of understanding mental disorders in clinical studies on the basis of experimental research criteria rather than traditional diagnostic categories. This FOA stems from the NIMH Research Domain Criteria (RDoC) project that is intended to further a long-range goal of contributing to diagnostic systems as informed by research on genetics, neuroscience, and behavior. The purpose of this FOA is to encourage applications to study mechanisms that may cut across multiple traditional diagnostic categories. Applications submitted in response to this FOA should be based upon RDoC criteria (see <http://www.nimh.nih.gov/research-funding/rdoc.shtml> for the RDoC criteria developed to date). Five organizing domains have been identified in the draft specification. These include Negative Valence Systems (i.e., aversive motivational dimensions), Positive Valence Systems, Cognitive Systems, Social Process Systems, and Arousal/Regulatory Systems. Consensus workshops and guidance documents

on Negative Valence Systems, Positive Valence Systems, Cognitive Systems, Working Memory (subsidiary of Cognitive Systems), and Social Processes, have been completed, and applications must focus on at least one of the constructs that have been defined in these RDoC workshops, as indicated in the workshop proceedings. Interested applicants are encouraged to consult the NIMH RDoC web site <http://www.nimh.nih.gov/research-funding/rdoc.shtml> for current information regarding these constructs. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-500.html>

### **Brain Somatic Mosaicism and its Role in Psychiatric Disorders (U01)**

**Funding Opportunity Number:** PAR-14-173

**Application Receipt/Submission Date(s):** June 24, 2014; February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017, by 5:00 PM local time of applicant organization.

**Description:** This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterize the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders. This FOA seeks to support applications exploring the extent of somatic variations across different brain regions in one or more psychiatric disorders using state-of-the-art genomic, computational and single-cell approaches. Awards made under this FOA will be governed by a Brain Somatic Mosaicism (BSM) Network Steering Committee to accelerate scientific progress through the coordination of research strategies, analytical methods and data. The ultimate goal of this FOA is to address gaps in our understanding of the role of somatic genomic perturbations in the etiology of neuropsychiatric disorders.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-173.html>

### **Brain Somatic Mosaicism and its Role in Psychiatric Disorders (Collaborative U01)**

**Funding Opportunity Number:** PAR-14-174

**Application Receipt/Submission Date(s):** June 24, 2014; February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017, by 5:00 PM local time of applicant organization.

**Description:** This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterize the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders. This FOA seeks to support applications exploring the extent of somatic variations across different brain regions in one or more psychiatric disorders using state-of-the-art genomic, computational and single-cell approaches. Awards made under this FOA will be governed by a Brain Somatic Mosaicism (BSM) Network Steering Committee to accelerate scientific progress through the coordination of research strategies, analytical methods and data. The ultimate goal of this FOA is to address gaps in our understanding of the role of somatic genomic perturbations in the etiology of neuropsychiatric disorders. This FOA should be used when two or more sites are needed to complete the study. Accordingly, the collaborating studies share a specific protocol across the sites and are organized as such in order to increase sample size, accelerate recruitment, or increase sample diversity and representation. Each site has its own Program Director/Principal Investigator and the program provides a mechanism for cross-site coordination, quality control, database management, statistical analysis, and reporting. <http://grants.nih.gov/grants/guide/pa-files/PAR-14-174.html>

### **Agricultural, Forestry and Fishing Safety and Health Research (U01)**

**Funding Opportunity Number:** PAR-14-175

**Application Receipt/Submission Date(s):** October 31, 2014

**Description:** NIOSH is soliciting applications to conduct agricultural injury and disease research. While emphasis will be placed on proposals in the areas of forestry/logging, vulnerable populations and research to practice efforts, any application associated with occupational safety and health concerns in this work sector will be accepted.

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-175.html>

## **USAID**

### **Pacific-American Climate Fund - Call for Concept Papers**

**Funding Opportunity Number:** AID-492-C-13-00017

**Pre-Application Deadline:** 2<sup>nd</sup> cycle: June 30, 2014, 3<sup>rd</sup> cycle: September 30, 2014, 4<sup>th</sup> cycle: December 30, 2014, 5<sup>th</sup> cycle: March 5, 2015

**Description:** The Pacific-American Climate Fund is a five-year grant-making facility through the United States Agency for International Development (USAID). The project will finance activities in the Pacific Islands region that aim to reduce long-term vulnerabilities associated with climate change and achieve sustainable climate-resilient development. Grants financed by the Pacific-American Climate Fund will support United States Government (USG) development objectives and will complement other support provided by the USG to the Pacific Islands. <http://www.grants.gov/web/grants/search-grants.html?keywords=AID-492-C-13-00017>

### **Mali High Impact Health Services II**

**Funding Opportunity Number:** RFA-688-14-000005

**Application Deadline:** May 14, 2014

**Description:** The “Mali High Impact Health Services II” Activity is designed to assist the GOM MOH to improve and expand select high impact health services and ending preventable child and maternal deaths by focusing on three critical health system components as they intersect at the community level: health service delivery, social and behavior change, and health systems strengthening. The Activity objective is “Increased and Sustained Use of High Impact Health Services and Healthy Behaviors.” <http://www.grants.gov/web/grants/search-grants.html?keywords=:%20RFA-688-14-000005>

### **Call For Partnership Concept Papers focused on Regional Leadership Centers under the President's Young African Leaders Initiative (YALI)**

**Funding Opportunity Number:** RFA-OAA-14-000037

**Application Deadline:** July 1, 2014

**Description:** This Announcement is a call to submit Partnership Concept papers that focus on establishing Regional Leadership Centers under President Obama’s Young African Leaders Initiative. \*Please note that this is being posted as a separate opportunity with reference to USAID’s Fiscal Year 2014/2015 Global Development Alliance Annual Program Statement (APS) No.: APS-OAA-14-000001. USAID’s Africa Bureau plans to support the establishment of approximately five YALI Regional Leadership Centers to enhance leadership and training opportunities in Africa and better leverage over \$350 million in ongoing USAID youth programs and initiatives in sub-Saharan Africa. Regional Leadership Centers will be public-private partnerships structured as Global Development Alliances (GDAs) that serve as a cost-effective means of leveraging capabilities and interests of the private sector and other organizations. <http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-OAA-14-000037>

### **USAID/West Africa's Sanitation Service Delivery Program**

**Funding Opportunity Number:** AID-RFA-624-14-000005

**Application Deadline:** May 12, 2014

**Description:** USAID/WA's Sanitation Service Delivery Program will build on recent USAID support to the West Africa WASH sector and complement USAID’s ongoing works on broader health issues. In all respects, Sanitation Service Delivery will support governments, bilateral donors and multilaterals throughout West Africa in their initiatives in sanitation and health. A catalytic approach to investment in the sanitation sector is necessary to address the chronic and persistent problem of expanding sanitation access to services (especially for the poor) and to more effectively address systemic challenges of scale and of sustainability. The USAID/West Africa SSD Program can play a critical role in advancing cutting edge solutions to the region’s sanitation challenge, placing USAID in a role of regional leadership in the sector. USAID/Sanitation Service Delivery (SSD) is one of three mechanisms of USAID/WA’s WASH programming designed to increase quality health services in West Africa. In targeted countries, SSD shall cultivate the private sector in order to: 1. Increase use of improved sanitation and safe disposal & reuse of fecal waste at scale; 2. Disseminate learning on market-based approaches to provision of sanitation services throughout West Africa. While USAID/WA’s investment in WASH will lead to substantial near-term benefits to peri-urban and urban poor in the three targeted countries, the program vision is driven primarily by deeper sanitation sector reform goals. Beyond immediate beneficiaries, the most critical contributions lie in developing, testing, and replicating innovative and scalable models that will contribute directly to structural change within the sanitation sector in the West Africa region. The “payoff” from these activities will not always be seen with immediate “numbers of people served” in the short-term. However, all activities target strategic leverage points that address root causes behind low rates of sanitation access and the poor record of past project sustainability. USAID/WA's Sanitation Service Delivery Program has three components: Component 1: Increase

use of improved sanitation Component 2: Increase use of safe disposal and reuse of fecal waste. Component 3: Disseminate learning on market-based approaches. The sanitation service delivery program will focus on private sector-led sanitation service delivery models in urban and peri-urban areas in western Africa region.

<http://www.grants.gov/web/grants/search-grants.html?keywords=AID-RFA-624-14-000005>

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