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Bioscience Grant Report
November 2014

	Title (Agency)	Opp. Number	Description	Deadline	Funding Level	Eligibility	Link
			PHARMACEUTICALS				
1.	Chemical/Biological Technologies Department Ebola Broad Agency Announcement	HDTRA1-15-EBOLA-BAA	The purpose of this Broad Agency Announcement (BAA) is to solicit research proposals for Chemical and Biological Defense Program (CBDP), Defense Threat Reduction Agency (DTRA) requirements for the CBDP Ebola BAA for the FY2015-2016 program. DTRA, with industry and government partners, has been working aggressively for the past decade to understand and counter Zaire ebolavirus (EBOV). DTRA's program is currently supporting the accelerated development of a therapeutic through preclinical Investigational New Drug (IND) enabling activities as well as the clinical evaluation for one EBOV vaccine. The program co-developed the rapid field deployable diagnostic systems currently in use in West Africa.	10/23/16	N/A	Unrestricted	https://www.fbo.gov/index?s=opportunity&mode=form&id=486179fe1388a4c0d0527b5e&tab=&cvie
2.	Hepatitis C Cooperative Research Centers: Immunity to HCV Infection (U19)	RFA-AI-14-045	The purpose of the Funding Opportunity Announcement (FOA) is to support research on the host immunological response to Hepatitis C Virus (HCV) infection with the goal of defining the immune requirements critical to a) protection against HCV infection, and b) successful clearance of HCV infection, conducted through Hepatitis C Cooperative Research Centers (HepC Center(s)).	2/3/15	Est. Total Program Funding: \$3,000,000 Award ceiling: \$500,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-045.html

			THERAPY				
3.	NIH- Elucidating HIV and HIV-treatment Associated Metabolic/Endocrine Dysfunction (R01)	RFA-DK-14-023	The goal of this Funding Opportunity Announcement (FOA) is to support innovative research in humans to elucidate the role of HIV infection, including relevant host conditions or antiretroviral therapy, on metabolic and endocrine dysfunction, as well as to support innovative research delineating the pathophysiology, etiology, risk or protective factors, and potential strategies to prevent, treat, or reverse endocrine and metabolic dysfunction in HIV-infected individuals. Proposed projects must involve human subjects with HIV infection or materials or data from HIV-infected individuals. Proposed projects must also be related to the mission of the Division of Diabetes, Endocrinology, and Metabolic Diseases within NIDDK (DEM/NIDDK).	4/9/15	Estimated Total Program Funding: \$2,500,000 Award Ceiling: \$500,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-023.html
	Studies of HIV in Digestive Diseases Limited to Gastrointestinal Mucosal Immunology and Liver Diseases (R01)	RFA-DK-14-019		4/7/14	Est. Total Program Funding: \$2,600,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-019.html
4.	Stem Cell-Derived Blood Products for Therapeutic Use (R01)	RFA-HL-15-022	Stem cell technology holds the promise of providing a nearly limitless source of safe, immune-matched cells for clinical use. One of the first areas where this promise can be realized is through cell products that lack a nucleus and thus face fewer regulatory hurdles, such as red blood cells and platelets. Considerable progress has been made but scientific questions remain and improved tools to enhance the production are required if translation to clinical use is to be achieved. To this end, this FOA will support research addressing remaining scientific questions to enable and accelerate the use of stem cell-derived blood products as therapeutics.	2/20/15	Est. Total Program Funding: \$3,600,000 Award Ceiling: \$300,000 Expected Number of Awards: 8	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-022.html

	Stem Cell-Derived Blood Products for Therapeutic Use: Technology Improvement (R43/R44)	RFA-HL-15-030	The primary objective of this FOA is to support the development of improved techniques and tools to enhance the production of clinically-relevant, functional stem cell-derived red blood cells or platelets in a more efficient and cost-effective manner. The research supported will develop and enhance technologies that enable the production of functional stem cell-based therapies with potential commercial and clinical viability.	4/9/15	N/A	Small Businesses	http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-030.html
	Stem Cell-Derived Blood Products for Therapeutic Use: Technology Improvement (R41)	RFA-HL-15-029			Est. Total Program Funding: \$675,000 Award Ceiling: \$225,000	Small Businesses	http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-029.html
			CANCER				
2.	NIH-Environmental Influences during Windows of Susceptibility in Breast Cancer Risk (U01)	RFA-ES-14-012	The overarching goal of the Breast Cancer and the Environment Research Program (BCERP) is to support integrated scientific research to enhance our knowledge of environmental and genetic factors underlying breast cancer risk. This funding opportunity will support transdisciplinary research projects to investigate the influence of environmental exposures during specific time windows of susceptibility on breast cancer risk. Applicants must propose transdisciplinary research project that addresses one or more potential windows of susceptibility and facilitates the integration of experimental model and human studies to accelerate understanding of the contribution of environmental factors to breast cancer risk, the underlying mechanisms, and potential prevention strategies. Applications must also include community-academic partnerships with defined community engagement activities.	1/28/15	Est. Total Program Funding: \$6,200,000 Award Ceiling: \$600,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-14-012.html

	NIH- National Cancer Institute Program Project Applications (P01)	PAR-15-023	With this Funding Opportunity Announcement (FOA), the National Cancer Institute (NCI) invites applications for investigator-initiated program project (P01) grants. Proposed program projects may address any of the broad areas of cancer research, including (but not limited to) cancer biology, cancer prevention, cancer diagnosis, cancer treatment, and cancer control. Basic, translational, clinical, and/or population-based studies in all of these research areas are appropriate. Each Program Project application must consist of at least three projects. The projects must share a common central theme, focus, and/or overall objective.	1/7/17	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-15-023.html
5.	Physical Sciences-Oncology Network (PS-ON): Physical Sciences-Oncology Projects (PS-OP) (U01)	PAR-15-021	This Funding Opportunity Announcement (FOA) invites U01 cooperative agreement applications for Physical Science-Oncology Projects (PS-OP). The goal of the PS-OPs is to foster the convergence of physical sciences approaches and perspectives with cancer research to advance our understanding of cancer biology and oncology by forming small transdisciplinary teams of physical scientists and cancer biologists/physician scientists	9/21/17	Award ceiling: \$500,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-15-021.html
			NEURAL SYSTEMS				
6.	BRAIN Initiative: Optimization of Transformative Technologies for Large Scale Recording and Modulation in the Nervous System (U01)	RFA-NS-15-004	Although invention and proof-of-concept testing of new technologies are key components of the BRAIN Initiative, to achieve their potential these technologies must also be optimized through feedback from end-users in the context of the intended experimental use. In this FOA we seek applications for the optimization of existing and emerging technologies and approaches that have potential to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and temporal scales, in any region and throughout the entire depth of the brain.	2/10/15	Est. Total Program Funding: \$3,800,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-004.html

	BRAIN Initiative: New Technologies and Novel Approaches for Large-Scale Recording and Modulation in the Nervous System (U01)	RFA-NS-15-003		2/10/15	Est. Total Program Funding: \$6,000,000		http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-003.html
7.	DARPA-BAA-15-04: Low Resource Languages for Emergent Incidents (LORELEI)	DARPA-BAA-15-04	The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of rapid response human language technology for low-resource languages. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.	1/9/14	N/A	Unrestricted	https://www.facebook.com/index?s=opportunity&mode=form&id=55760973a8b2fccba31deb39ddb50a20&tab=core&_cview=0
8.	Brain Somatic Mosaicism and its Role in Psychiatric Disorders (Collaborative U01)	PAR-15-022	This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multidisciplinary 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, single-cell and other relevant approaches	2/14/17	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-15-022.html

DIABETES							
9.	<p>Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Coordination and Data Management Center (CSCPDPCCDMC) (U01)</p> <p>Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Clinical Centers (CSCPDPCCCs) (U01)</p>	<p>RFA-DK-14-028</p> <p>RFA-DK-14-027</p>	<p>This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes</p>	4/2/15	<p>Est. Total Program Funding: \$6,000,000</p> <p>Award ceiling: \$1,000,000</p> <p>Award ceiling: \$270,000</p>	Unrestricted	<p>http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-028.html</p> <p>http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-027.html</p>

			GENETICS				
10.	Epidemiology of Drug Abuse (R01)	PA-15-003	This Funding Opportunity Announcement (FOA) is intended to support research projects to enhance our understanding of the nature, extent, distribution, etiology, comorbidities, and consequences of drug use, abuse, and addiction across individuals, families, communities, and diverse population groups. This FOA strongly encourages applications that reflect the breadth of epidemiology research by addressing multiple levels of risk, resilience, and causation across scientific disciplines; by applying novel methods to advance knowledge of the interplay among genetic, environmental, and developmental factors and between social environments and associated health and disease outcomes; and by building on the research investments of NIH and sister HHS agencies to harness existing data on the epidemiology and etiology of drug abuse to improve public health prevention and treatment programs.	9/7/17	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-15-003.html
	Epidemiology of Drug Abuse (R03)	PA-15-002		Award Ceiling: \$100,000	http://grants.nih.gov/grants/guide/pa-files/PA-15-002.html		
	Epidemiology of Drug Abuse (R21)	PA-15-001		Award Ceiling: \$275,000	http://grants.nih.gov/grants/guide/pa-files/PA-15-001.html		
11.	Mechanistic Studies of Pain and Alcohol Dependence (R01)	PA-15-026	This FOA encourages applications that propose to conduct mechanistic studies on the relationship between excessive alcohol drinking, alcohol dependence and pain. The objective of this FOA is to understand genetic, pharmacological and learning mechanisms underlying the association between the propensity to drink excessively alcohol and pain responses.	1/7/18	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-15-026.html

			GENERAL				
12.	USAMRAA- DoD Orthotics and Prosthetics Outcomes Research Award	W81XW H-14- OPORP- OPORA	The OPORP Orthotics and Prosthetics Outcomes Research Award (OPORA) is being offered for the first time in FY14. It is intended to support research that evaluates the comparative effectiveness of and functional outcomes associated with prosthetic and orthotic clinical interventions and/or other rehabilitation interventions for Service Members and Veterans who have undergone limb salvage or limb amputation. The goal is to improve our understanding of and ultimately advance the implementation of the most effective prescriptions for prosthetic and orthotic devices, treatment, rehabilitation, and secondary health effect prevention options for patients, clinicians, other caregivers, and policymakers. Proposed projects should be designed to provide outcomes data regarding orthotic and prosthetic devices, and/or related clinical interventions and must include the anticipated effect on patient care metrics.	1/20/15	Estimated Total Program Funding: \$8,900,000	Unrestricted	http://cdmrp.army.mil/funding/pa/14oporpopora_pa.pdf
13.	DARPA- Spectral Combs from UV to THz (SCOUT)	DARPA- BAA-15- 05	The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of chip-scale optical frequency combs for spectroscopic sensing. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.	11/25/14	N/A	Unrestricted	https://www.fbo.gov/index?s=opportunity&mode=form&id=7f6fdeb19398f15f05809b58755fd15c&tab=core&_cview=0

14.	HUMAN PERFORM-ANCE SENSING	BAA-RQKHB-2015-0003	This BAA employs the Sense-Assess-Augment paradigm to accelerate research and development of technologies capable of detecting/assessing human performance. This BAA focuses on identifying, developing, characterizing, and accelerating sensing technologies that can be utilized to assess the physiological, cognitive, and psychological states of human operators. It is also anticipated that these technologies will be implemented into fieldable systems. Research will have an emphasis on developing technologies capable of detecting & sensing physiological, biomarker, and behavioral metrics which are or can be correlated with human state/performance.	10/29/18	Est. Total Program Funding: \$39,800,000 Award Ceiling: \$2,000,000 Award Floor: \$150,000 Expected Number of Awards: 8	Unrestricted	https://www.fbo.gov/index?s=opportunity&mode=form&id=6dccb53be3d0794eb70559b25ea9d074&tab=core&_cview=1
15.	Solid-State Lighting Advanced Technology Research and Development 2015	DE-FOA-0001171	Through research and development of solid state lighting (SSL) including both light emitting diode and organic light emitting diode technologies the objectives of this opportunity are to maximize the energy efficiency of SSL products in the market place, remove market barriers through improvements to lifetime, color quality, and lighting system performance, reduce costs of SSL sources and luminaires, improve product consistency while maintaining high quality products, and encourage the growth, leadership, and sustainability of domestic US manufacturing within the SSL industry.	4/16/15	Est. Total Program Funding: \$10,000,000 Award Ceiling: \$1,500,000 Expected Number of Awards: 10	Unrestricted	https://eere-exchange.energy.gov/#FoaIde4195533-28bf-4481-959b-597792fd4784
16.	DoD USAMRMC FY15 Broad Agency Announcement for Extramural Medical Research	W81XW H-BAA-15-1	The U.S. Army Medical Research and Materiel Command's (USAMRMC) mission is to provide solutions to medical problems of importance to the American Service member at home and abroad, as well as to the general public at large. Projects must be for scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding rather than focusing on a specific system or hardware solution. Research and development funded through this BAA is intended and expected to benefit and inform both military and civilian medical practice and knowledge.	9/30/15	N/A	Unrestricted	https://www.fbo.gov/index?s=opportunity&mode=form&id=18180ef3c5300ce8fe65a7d67cad6901&tab=core&_cview=0

17.	NIH- Development and Translation of Medical Technologies to Reduce Health Disparities (SBIR) (R43/R44)	RFA-EB- 15-001	This Funding Opportunity Announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that propose to develop and translate medical technologies aimed at reducing disparities in healthcare access and health outcomes. Appropriate medical technologies should be effective, affordable, culturally acceptable, and deliverable to those who need them. Responsive grant applications must involve a formal collaboration with a healthcare provider or other healthcare organization serving one or more health disparity populations during Phase I and Phase II.	9/7/15	Est. Total Program Funding: \$2,000,000	Small Businesses	http://grants.nih.gov/grants/guide/rfa-files/RFA-EB-15-001.html
18.	Innovations for Healthy Living - Improving Minority Health and Eliminating Health Disparities (R43)	RFA-MD- 15-004	This Funding Opportunity Announcement (FOA) invites eligible United States small business concerns (SBCs) to submit Small Business Innovation Research (SBIR) grant applications that propose to develop a product, process or service for commercialization with the aim of reducing disparities in healthcare access and health outcomes. Appropriate technologies should be effective, affordable, culturally acceptable, and deliverable to racial/ethnic minorities, low-income and rural populations.	1/27/15	Est. Total Program Funding: \$600,000	Small Businesses	http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-004.html
	Technologies for Improving Minority Health and Eliminating Health Disparities (R41/R42)	RFA-MD- 15-003		1/23/15	Estimated Total Program Funding: \$1,000,000		http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-003.html

19.	NIBIB Quantum Program: Technological Innovation to Solve a Major Medical or Public Health Challenge (U01)	PAR-15-031	The goal of the National Institute of Biomedical Imaging and Bioengineering (NIBIB) Quantum Program is to achieve a profound (quantum) advance over present-day approaches to the prevention, detection, diagnosis, and/or treatment of a major disease or national public health problem primarily through the development of biomedical engineering/biomedical imaging technologies. In order to realize a profound advance against a major disease or national public health problem, this announcement supports research to develop and prepare a target technology for clinical efficacy at the completion of Quantum funding	5/7/17	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-15-031.html
20.	Innovative Technologies for Differential Diagnosis of Acute Febrile Illnesses (R21/R33)	RFA-AI-14-062	The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for early-stage translational research projects focused on the development of innovative, unbiased next generation, differential diagnostic technologies for acute febrile illnesses caused by infectious pathogens, excluding HIV.	2/2/15	Est. Total Funding: \$5,400,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-062.html
21.	Biology of the Temporomandibular Joint in Health and Disease (R21)	PA-14-359	The purpose of this FOA is to encourage research that will advance our understanding of the temporomandibular joint (TMJ) in health and disease and to stimulate research that complements previous efforts and focuses on the biology of joint function and the tissues that make up the TMJ. A better understanding of total joint structure and mechanics including the interactions of the skeletal, muscular, nervous, immune, and circulatory systems using new in vivo and in vitro models is needed. An expected outcome of this FOA is new knowledge that will provide a basis for developing novel approaches to prevent, diagnose, assess risk, and treat temporomandibular joint disorder (TMD).	9/7/17	Award ceiling: \$275,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-359.html
	Biology of the Temporomandibular Joint in Health and Disease (R01)	PA-14-358		9/7/17			http://grants.nih.gov/grants/guide/pa-files/PA-14-358.html

22.	<p>Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R01)</p> <p>Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R21)</p>	<p>PA-15-017</p> <p>PA-15-015</p>	<p>The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimers disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline.</p>	<p>1/7/18</p> <p>1/7/18</p>	<p>N/A</p> <p>Award Ceiling: \$275,000</p>	<p>Unrestricted</p> <p>Unrestricted</p>	<p>http://grants.nih.gov/grants/guide/pa-files/PA-15-017.html</p> <p>http://grants.nih.gov/grants/guide/pa-files/PA-15-015.html</p>
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