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Bioscience Grant Report - October 2014

	Title (Agency)	Opp. Number	Description	Deadline	Funding Level	Eligibility	Link
			CANCER				
1.	Specialized Programs of Research Excellence (SPOREs) in Human Cancers for Years 2015 and 2016 (P50)	PAR-14-353	The program will fund P50 SPORE grants to support state-of-the-art investigator-initiated translational research that will contribute to improved prevention, early detection, diagnosis, and treatment of an organ-specific cancer (or a related group of cancers).	9/22/16	Award ceiling: \$2,300,000 Estimated 8-12 SPOREs awarded annually.	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-14-353.html
2.	Pediatric Preclinical Testing Consortium: Coordinating Center (U01)	RFA-CA-14-019	This is a part of the Pediatric Preclinical Testing Consortium (PPTC) initiative. The PPTC will consist of in vivo and in vitro testing Research Programs (both supported under companion RFA-CA-14-018) and the PPTC Coordinating Center (supported under this FOA). The PPTC is designed to address key challenges associated with the development of new therapies for children with cancer by developing reliable preclinical testing data for pediatric drug candidates that can be used to inform new agent prioritization decisions. Effective	11/13/14	Est. Total Program Funding: \$550,000 Award ceiling: \$550,000 to one center	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-019.html

	Pediatric Preclinical Testing Consortium: Research Programs (U01)	RFA-CA-14-018	prioritization is critical because of the large universe of drugs being developed for adult cancers, a number so large that no more than a small number can be studied in pediatric clinical trials.	11/13/14	Approx. \$2.15 million to support 4 to 6 programs	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-CA-14-018.html
3.	DoD Breast Cancer Breakthrough Award Levels 1 and 2	W81XWH-14-BCRP-BREAKTHROUGH 2-FL12	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.	12/17/14	Est. Total Program Funding: \$25,000,000	Unrestricted	http://cdmrp.army.mil/funding/pa/14bcrpbreakthrough12_2_pa.pdf
	DoD Breast Cancer Breakthrough Award Levels 3 and 4	W81XWH-14-BCRP-BREAKTHROUGH 2-FL34		1/29/15	Est. Total Program Funding: \$20,000,000	Unrestricted	http://cdmrp.army.mil/funding/pa/14bcrpbreakthrough34_2_pa.pdf
			NEURAL SYSTEMS				
4.	Integrative Strategies for Understanding Neural and Cognitive Systems	14-611	The complexities of brain and behavior pose fundamental questions in many areas of science and engineering, drawing intense interest across a broad spectrum of disciplinary perspectives while eluding explanation by any one of them. Rapid advances within and across disciplines have led to newly	2/26/14	Est. Total Program Funding: \$12,000,000	Unrestricted	http://nsf.gov/funding/pgm_summ.jsp?pims_id=505132&org=NSF&selorg=XCUT

			converging theories, models, empirical methods and findings, opening new opportunities to understand complex aspects of the brain in action and in context. Innovative, integrative, boundary-crossing approaches are necessary to push the field forward. This solicitation describes the first phase of a new NSF program to support transformative and integrative research that will accelerate understanding of neural and cognitive systems.				
5.	Request to Access Parkinson's Disease Related-Biospecimens (X01)	PAR-14-340	The National Institute of Neurological Disorders and Stroke (NINDS) Parkinson's Disease Biomarkers Program (PDBP), The Michael J. Fox Foundation (MJFF) Parkinson's Disease cohorts and biosample collections, the NINDS-sponsored National Brain and Tissue Resource for Parkinson's Disease and Related Disorders at the Banner Sun Health Research Institute and the Harvard Biomarker Study Biospecimen Repository offer unique biospecimen resources and corresponding clinical data for Parkinson's Disease biomarker discovery, optimization and replication studies. This FOA allows an investigator to apply for access to non-renewable biosamples from one or more of these biosample collections.	11/12/17	N/A The number of awards is contingent upon scientific merit and availability of biosample resources.	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-14-340.html
6.	DoD PH/TBI Investigational Treatments for TBI and PTSD Clinical Trial Award	W81XW H-14-PHTBIRP - ITTPCTA	The intent of the FY14 PH/TBIRP Investigational Treatments for TBI and PTSD Clinical Trial Award (ITTPCTA) is to address Section 704 of the National Defense Authorization Act for Fiscal Year 2014, which directs a pilot program and establishment of a process for randomized placebo-controlled clinical trials of investigational treatments (including diagnostic testing) of TBI and PTSD received by members of the Armed Forces in health care facilities other than military treatment facilities	1/23/15	Est. Total Program Funding: \$5,000,000	Unrestricted	http://cdmrp.army.mil/funding/pa/14_phtbiittpcta_pa.pdf

7.	NINDS Exploratory Clinical Trials for Small Business (SBIR [R44])	PAR-12-073	The purpose of this Funding Opportunity Announcement (FOA) is to provide a vehicle for Small Business Concerns (SBCs) submitting Small Business Innovation Research (SBIR) grant applications for investigator-initiated exploratory clinical trials to the National Institute of Neurological Disorders and Stroke (NINDS). The trials must focus on products related to the mission and goals of the NINDS and may evaluate drugs, biologics, devices, or diagnostics as well as surgical, behavioral or rehabilitation therapies. Only Phase II and Fast-Track applications are supported under this program. Phase I applications are only accepted as part of a Fast-track application.	5/7/2015	Award Ceiling: \$150,000	Small Businesses	http://www.grants.gov/web/grants/view-opportunity.html?oppId=137434
			GENETICS				
8.	Building Genetics and Genomic Knowledge about Dental, Oral, and Craniofacial Diseases and Disorders (R01)	PA-14-347	The purpose of this announcement is to encourage research into dental, oral, and craniofacial diseases and disorders for which there is evidence for genetic heritability but for which we do not have a strong understanding of the genetics/genomics of the disease or disorder. Applicable areas of investigation include identification of promising areas of the genome, and characterization and elucidation of the function(s) of genetic variants that affect disease risk in humans. The ultimate goal of these studies will be to drive development of effective diagnostic, therapeutic, and preventive approaches.	1/7/18	N/A The number of awards is contingent upon NIH appropriations and the submission of meritorious applications.	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-347.html

9.	Model Organisms Screening Center for the Undiagnosed Diseases Network (UDN) (U54)	RFA-RM-14-016	The purpose of this announcement is to establish a Model Organisms Screening Center for evaluating the pathogenicity and function of approximately 200 gene variants per year identified through the Undiagnosed Diseases Network (UDN). Responsive applications will propose to establish a screening platform involving at a minimum Drosophila and zebrafish models; the screening pipeline may include additional small animal models or cell-based assays, as appropriate, to analyze the function of UDN gene variants in the context of the respective UDN patient's disease phenotype.	12/16/14	Award ceiling: \$1,000,000	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-RM-14-016.html
10.	Nucleomics Tools (U01)	RFA-RM-14-007	The purpose of this FOA is to solicit applications that propose to develop and validate physical, chemical and biochemical approaches for measuring properties and dynamics of the three-dimensional organization of the genome that cannot be measured adequately using existing methodologies.	2/2/15	Est. Total Program Funding: \$3,000,000	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=266728
11.	Study of Nuclear Bodies and Compartments (U01)	RFA-RM-14-008	The purpose of this FOA is to support projects to develop tools and strategies for studying: 1. the three dimensional architecture of the nucleus in relationship to the topography of nuclear bodies and transcriptional machineries, 2. the structure and function of poorly characterized nuclear structures, or 3. the role of specialized proteins and RNAs in the assembly, organization, and function of nuclear bodies, nuclear structures, and specialized sub-nuclear domains.	2/2/15	Est. Total Program Funding: \$3,000,000	Small Businesses, Non-profits with a 501(c)(3) status	http://www.grants.gov/web/grants/view-opportunity.html?oppId=266748

12.	4D Nucleome Imaging Tools (U01)	RFA-RM-14-009	The purpose of this FOA is to support projects to develop tools and strategies for studying: 1. the three dimensional architecture of the nucleus in relationship to the topography of nuclear bodies and transcriptional machineries, 2. the structure and function of poorly characterized nuclear structures, or 3. the role of specialized proteins and RNAs in the assembly, organization, and function of nuclear bodies, nuclear structures, and specialized sub-nuclear domains.	2/2/15	Est. Total Program Funding: \$3,000,000	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=266749
			GENERAL				
13.	Simplifying Complexity in Scientific Discovery (SIMPLEX)	DARPA-BAA-14-59	The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of mathematical systems of representation and analysis as applied to complex phenomena. 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.	11/6/14	N/A	Unrestricted	https://www.fbo.gov/index?s=opportunity&mode=form&id=a55fdd677c771b1b355673be419c4584&tab=core&cview=0

14.	Studies in Neonatal and Pediatric Resuscitation (R03)	PA-14-351	Encourages a wide range of collaborative research projects related to patient safety in the context of perinatal, neonatal and pediatric care both in routine hospital settings and in the intensive care units. Welcomes applications related to (but not limited to): the epidemiology of various domains of medical errors and consequent patient harm; assessing the factors at various levels that contribute to such errors; and intervention strategies at individual, systems, and institutional-levels to help reduce and eliminate medical errors. It is anticipated that knowledge gained from these projects will help develop strategies to deliver highest quality of healthcare to all newborn infants and children with utmost safety and effectiveness.	1/7/18	Award Ceiling: \$50,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-351.html
15.	Studies in Neonatal and Pediatric Resuscitation (R21)	PA-14-349	This funding opportunity announcement (FOA) encourages a wide range of collaborative research projects related to patient safety in the context of perinatal, neonatal and pediatric care both in routine hospital settings and in the intensive care units.	1/7/14	Award ceiling: \$275,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-349.html

16.	(Re)Building a Kidney: Cells to Organ (UH2/UH3)	RFA-DK-14-010	This opportunity invites new research project applications to participate in the NIDDK (Re) Building a Kidney Consortium. The projects will be part of a research network focused on the expansion of tools, resources, and knowledge that will guide studies on the in vivo regeneration of functional nephrons or in vitro generation of nephrons for kidney transplant. Funds will be made available through the UH2/UH3 cooperative agreement award mechanism. The initial UH2 phase will support milestone-driven projects that will inform strategies for the enhancement of endogenous regenerative repair processes and generation of cell types important for the development of functional nephrons.	1/14/15	Award ceiling: \$500,000 for UH2 \$1.0 million per year for UH3	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-DK-14-010.html#_Section_II_Award_1
	(Re)Building a Kidney Coordinating Center (U01)	RFA-DK-14-009	This is a new initiative to invite applications to participate in the Kidney Consortium as the Coordinating Center. The consortium Coordinating Center will manage activities of the consortium including research opportunities, and facilitate communication of research results, data, and methods within the consortium and with the community.	1/14/15	Award ceiling: \$1,600,000	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-DK-14-009.html
17.	Consortium on Biomarker and Outcome Measures of Social Impairment for Use in Clinical Trials in Autism Spectrum Disorder (U19)	RFA-MH-15-800	The purpose of this announcement is to invite applications for the Consortium on Biomarkers and Outcome Measures of Social Impairment in Autism Spectrum Disorder (ASD) in order to generate objective tools for use in clinical trials of behavioral or pharmacologic interventions. The FOA will support a Consortium project to conduct a multi-site study to assess a well-justified set of standardized lab-based measures of domains of social impairment and biological measures (resting state and task-based EEG as well as eye tracking measures) that show promise in school age individuals with ASD at baseline, 6 and 24 week time points.	12/10/14	Est. Total Program Funding: \$3,525,000	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-MH-15-800.html

18.	Epigenetic Analyses of Aging as a Risk Factor for Multiple Chronic Conditions (U34)	RFA-AG-15-004	The emergent field of geroscience seeks to relate the biology of aging to the development of chronic diseases and the onset of degenerative conditions which are prevalent in the older segment of human populations. It is generally accepted that age is the major risk factor for most chronic diseases and degenerative conditions in adults. Thus, a critical question in geroscience is to identify components in the biology of aging that are the underlying risk for multiple chronic diseases and degenerative conditions. Therefore, this FOA will support planning grants to circumscribe the scope of this question and suggest ways to answer it experimentally.	1/15/15	Est. Total Program Funding: \$800,000 Award ceiling: \$600,000	Unrestricted	http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-004.html
19.	NIDCR Clinical Trial or Biomarker Clinical Validation Study Planning Grant (R34)	PAR-14-346	This Funding Opportunity will support activities to develop: the draft clinical protocol; the Clinical Investigators Brochure (or equivalent) if needed; tools for data and quality management, safety and operational oversight plans; recruitment and retention strategies; the study team; and other essential documents such as a draft Manual of Procedures that are necessary for the subsequent clinical trial or biomarker clinical validation study.	9/7/17	Award ceiling: \$150,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PAR-14-346.html
20.	2014 Broad Agency Announcement	W912HZ-14-BAA-01	The U.S. Army Engineer Research and Development Center (ERDC) has issued a Broad Agency Announcement (BAA) for various research and development topic areas. Multiple opportunities and fields of interest for grant funding.	1/31/15	N/A	Unrestricted	http://www.grants.gov/web/grants/search-grants.html?keywords=BAA

21.	Pre-Symptomatic Profiles of Chronic Lung Disease(s) from Retrospective Cohorts (R21)	RFA-HL-15-025	Research applications are requested that stimulate focused secondary analyses of existing clinical research datasets to test innovative hypotheses about the epidemiology of incident chronic lung disease(s). Novel analyses of existing data will generate clinical and/or biological phenotypes of the pre-symptomatic stages of chronic lung disease(s) and serve as preliminary data for subsequent research applications on primary prevention.	1/21/15	Est. Total Program Funding: \$2,640,000 Award ceiling: \$275,000 NHLBI plans to fund up to 6 awards	Unrestricted	http://grants.nih.gov/grants/guide/rra-files/RFA-HL-15-025.html
22.	Resource Program Grants in Bioinformatics (P41)	PAR-14-357	Invites applications for Resource Program Grants in Bioinformatics for supporting the continued operation, improvement, and dissemination of databases, digital information, or software tools that are unique, and of special importance to research using animal models of embryonic developmental processes.	9/25/17	Award ceiling: \$1,750,000	Unrestricted	http://grants.nih.gov/grants/guide/para-files/PAR-14-357.html
23.	DoD USAMRMC FY15 Broad Agency Announcement for Extramural Medical Research	W81XWH-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. The scope of this effort and the priorities attached to specific projects are influenced by changes in military and civilian medical science and technology, operational requirements, military threat assessments, and national defense strategies.	9/30/15	N/A	Unrestricted	http://www.grants.gov/web/grants/search-grants.html?keywords=manufacturing

24.	Innovative Research in HIV in Kidney, Urology and Hematology (R01)	RFA-DK-14-020	This FOA invites Research Project Grant (R01) applications for innovative research projects examining the basic and clinical aspects of HIV infection, treatment, and long-term sequelae as they relate to the mission of the Division of Kidney, Urologic and Hematologic Diseases within NIDDK (KUH/NIDDK).	4/9/15	Est. Total Program Funding: \$2,600,000 Award ceiling: \$500,000	Unrestricted NIDDK intends to fund 3-6 awards per year	http://grants.nih.gov/grants/guide/rra-files/RFA-DK-14-020.html
25.	Advancing Interventions to Improve Medication Adherence (R01)	PA-14-334	This FOA seeks Research Project Grant (R01) applications that propose interventions to significantly improve medication adherence in individuals. Applications may target medication adherence in the context of treatment for a single illness or chronic condition (e.g., hypertension), to stave off a disease recurrence (e.g., cancer) or for multiple comorbid conditions (e.g., hypertension, diabetes, alcohol use disorders and HIV/AIDS).	1/7/18	N/A	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-334.html
	Advancing Interventions to Improve Medication Adherence (R21)	PA-14-335		1/7/18	Award ceiling: \$275,000	Unrestricted	http://grants.nih.gov/grants/guide/pa-files/PA-14-335.html
26.	DoD Orthotics and Prosthetics Outcomes Research Award	W81XWH-14-OPORP-OPORA	The OPORA is being offered for the first time in FY14 and 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.	2/2/15	Est. Total Program Funding: \$8,900,000	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=268008

27.	Facile Methods and Technologies for Synthesis of Biomedically Relevant Carbohydrates (U01)	RFA-RM-14-015	The Common Fund Program aims to develop accessible and affordable new tools and technologies for studying carbohydrates that will enable researchers in all biomedical fields to dramatically advance our understanding of the roles of these complex molecules in health and disease and to not abandon glycan discovery due to the difficulty or inability to study them. This FOA is intended to support development of new approaches (methods and technologies) to facilitate the rapid and affordable synthesis, production, and/or functionalization of bio-medically relevant glycans and glyco-conjugates representing 1) mammalian glycomes and 2) microbial glycans.	12/10/14	Estimated Total Program Funding: \$4,000,000 Award Ceiling: \$500,000 Expected Number of Awards: 6	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=267448
28.	Novel and Innovative Tools to Facilitate Identification, Tracking, Manipulation, and Analysis of Glycans and their Functions (R21) Novel and Innovative Tools to Facilitate Identification, Tracking, Manipulation, and Analysis of Glycans and their Functions (U01)	RFA-RM-14-014 RFA-RM-14-013	This FOA solicits development of new, more easily accessible tools, reagents, and technologies to facilitate identification, tracking, manipulation, and analysis of glycans with their biological binding partners and determine their functions. This initiative may build on efforts that interface with existing technologies and procedures to make them easier to access and use. As applicable, efforts must consider: factors for scale-up; efforts to make instrumentation broadly accessible and cost-effective for the end-user; and compatibility of data generated with integration into existing databases.	12/10/14 12/10/14	Estimated Total Program Funding: \$3,000,000 Award Ceiling: \$400,000 Expected Number of Awards: 8 Award Ceiling: \$500,000 Expected Number of Awards: 2	Unrestricted Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=267468 http://www.grants.gov/web/grants/view-opportunity.html?oppId=267469

29.	Regional Consortia for High Resolution Cryoelectron Microscopy (U24)	RFA-GM-16-001	The purpose of this Funding Opportunity Announcement (FOA) is to provide regional access for cryoelectron microscopy (cryoEM) laboratories to state-of-the-art data collection capabilities. NIGMS will support consortia of established and early stage investigator laboratories whose research has an established specialization in and dependence on cryoEM. These laboratories will coordinate with each other to share facilities and resources for direct electron detection.	1/27/15	Estimated Total Program Funding: \$3,000,000	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=267951
30.	Biology of the Temporomandibular Joint in Health and Disease (R01)	PA-14-358	The purpose of this FOA is to encourage research that will advance our understanding of the 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. 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	N/A	Unrestricted	http://www.grants.gov/web/grants/view-opportunity.html?oppId=267953