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May 2016

Title	Opportunity No.	Description	Deadline	Funding Level	Eligibility	Link
<b>REGENERATIVE MEDICINE</b>						
Discovery of Genetic Basis of Monogenic Heart, Lung, Blood, and Sleep Disorders (X01)	PAR-15-314	This FOA invites applications to use the genome-wide sequencing capacity of the Centers for Mendelian Genomics to carry out studies of the genetic basis of Mendelian or monogenic disorders that significantly affect heart, lung, blood, and sleep (HLBS) systems.	June 15, 2018	Expected number of Awards: 20	Unrestricted	<a href="http://grants.nih.gov/grants/guide/pa-files/PAR-15-314.html#_Section_II._Award_1">http://grants.nih.gov/grants/guide/pa-files/PAR-15-314.html#_Section_II._Award_1</a>
Differentiation and Integration of Stem Cells (Embryonic and Induced-Pluripotent) Into Developing or Damaged Tissues	PAR-13-094/ PAR-13-095	This Funding Opportunity Announcement (FOA) issued by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) is intended to encourage innovative and high risk/impact research in the area of stem cell biology, to be explored in model organisms.	Sept. 7, 2016	R01: \$500,000 R21: \$200,000	Unrestricted	<a href="http://www.grants.gov/search/search.do;jsessionid=rcb3RkBLCx8f3kdCIXqQ1yT0qHyhVbJ8T1xqx1gymtNWv8TDWGRM!-337921640?oppId=217835&amp;mode=VIEW">http://www.grants.gov/search/search.do;jsessionid=rcb3RkBLCx8f3kdCIXqQ1yT0qHyhVbJ8T1xqx1gymtNWv8TDWGRM!-337921640?oppId=217835&amp;mode=VIEW</a>
Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R24)	PAR-13-252	This FOA encourages Resource-Related Research Project Grant (R24) applications from institutions and organizations proposing research aimed at characterizing animal stem cells and improving existing and creating new animal models for human disease conditions	Sept. 7, 2016	NA	Government, nonprofits, small businesses	<a href="http://www.grants.gov/search/search.do;jsessionid=yJVORhhW3y5sM2HLpcdG3BrGzB6p92dhLJ2vsmGgzmn6v46VlyS4!1068136941?oppId=237187&amp;mode=VIEW">http://www.grants.gov/search/search.do;jsessionid=yJVORhhW3y5sM2HLpcdG3BrGzB6p92dhLJ2vsmGgzmn6v46VlyS4!1068136941?oppId=237187&amp;mode=VIEW</a>
Novel Nucleic Acid Sequencing Technology	RFA-HG-15-033	This FOA solicits R43/R44 SBIR grant applications from small	Aug. 27, 2017	Est. Total Program	Small businesses	<a href="http://grants.nih.gov/grant">http://grants.nih.gov/grant</a>

<p>Development (R43/R44)</p> <p>Novel Nucleic Acid Sequencing Technology Development (R01)</p> <p>Novel Nucleic Acid Sequencing Technology Development (R21)</p>	<p>RFA-HG-15-032</p> <p>RFA-HG-15-031</p>	<p>businesses to develop novel technologies that will enable new approaches to DNA and direct RNA sequencing. Applicants may propose to develop novel complete sequencing systems, investigate challenges underlying key novel system components, or propose improvements of at least an order of magnitude improvement to existing systems. Exploration of methods other than those currently in use is highly encouraged. High-risk/high-payoff applications are appropriate to achieve the goals of this FOA.</p> <p>This award solicits R01 grant applications to develop novel technologies that will enable new approaches to DNA and direct RNA sequencing.</p> <p>This award solicits R21 grant applications to develop novel technologies that will enable new approaches to DNA and direct RNA sequencing</p>		<p>Funding: \$2,000,000</p> <p>Award Ceiling: \$150,000 for Phase I and \$1,000,000 for Phase II Awards</p> <p>Est. Total Program Funding: \$1,500,000</p> <p>Award ceiling: \$700,000</p> <p>Est. Total Program Funding: \$500,000</p> <p>Award ceiling: \$200,000</p>	<p>Unrestricted</p> <p>Unrestricted</p>	<p>s/guide/rfa-files/RFA-HG-15-033.html</p> <p>http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-15-032.html</p> <p>http://grants.nih.gov/grants/guide/rfa-files/RFA-HG-15-031.html</p>
<p>Epidemiology of Drug Abuse (R01)</p> <p>Epidemiology of Drug Abuse (R03)</p> <p>Epidemiology of Drug Abuse (R21)</p>	<p>PA-15-003</p> <p>PA-15-002</p> <p>PA-15-001</p>	<p>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</p>	<p>Sept. 7, 2017</p>	<p>N/A</p> <p>Award Ceiling: \$100,000</p> <p>Award Ceiling: \$275,000</p>	<p>Unrestricted</p>	<p>http://grants.nih.gov/grants/guide/pa-files/PA-15-003.html</p> <p>http://grants.nih.gov/grants/guide/pa-files/PA-15-002.html</p> <p>http://grants.nih.gov/grants/guide/pa-files/PA-15-001.html</p>

		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.				
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.	Jan. 7, 2018	N/A	Unrestricted	<a href="http://grants.nih.gov/grants/guide/pa-files/PA-15-026.html">http://grants.nih.gov/grants/guide/pa-files/PA-15-026.html</a>
Identification of Genetic and Genomic Variants by Next-Gen in Sequencing Non-human Animal Models (U01)	PAR-15-120	The goals of this initiative are to identify gene variants of traits associated with addiction and substance abuse in selectively bred, and outbred non-human animal models using methodologies of Next Gen-Sequencing, mapping, and genotyping. This FOA will replace PAR-14-010 "Identification of Gene Variants for Addiction Related Traits by Next-Gen Sequencing in Model Organisms Selectively Bred for Addiction Traits (UH2/UH3)"	Mar. 1, 2018	N/A	Unrestricted	<a href="http://grants.nih.gov/grants/guide/pa-files/PA-15-120.html">http://grants.nih.gov/grants/guide/pa-files/PA-15-120.html</a>
NIH Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R21)	PAR-16-094	R21 projects supported by this FOA are intended to improve existing and create new animal models for regenerative medicine. Preference will be given to investigations that examine general principles involved in developing the most informative animal models for regenerative medicine, rather than focusing on a specific disease. However,	May 7, 2019	Award Ceiling: \$200,000	Unrestricted	<a href="http://grants.nih.gov/grants/guide/pa-files/PA-16-094.html">http://grants.nih.gov/grants/guide/pa-files/PA-16-094.html</a>

<p>Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R01)</p>	<p>PAR-16-093</p>	<p>investigations involving specific diseases can be used as proof of principle. The ultimate objective of these efforts should be to provide essential preclinical knowledge that can help inform future clinical investigations.</p> <p>This FOA is in support of R01 grants in companion to the R21 grant above.</p>		<p>Grant amounts contingent on NIH funding</p>		<p><a href="http://grants.nih.gov/grants/guide/pa-files/PAR-16-093.html">http://grants.nih.gov/grants/guide/pa-files/PAR-16-093.html</a></p>
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