NORFOLK STATE UNIVERSITY

RESEARCH NEWS

SPONSORED PROGRAM FUNDING ANNOUNCEMENT AND MORE

September 03, 2010 10035

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Assay Development for High Throughput Screening for Nicotinic Receptor Subunits

Deadline: January 18, 2011 **Funding Limit:** Unspecified

This FOA requests applications that propose to develop biological assays that will facilitate the discovery of new molecular probes for investigating the biological function of neuronal nicotinic acetylcholine receptors (nAChRs). Membrane-spanning subunits (alpha and beta) aggregate in pentamers to form various combinations of functional nAChR ion channels. Genetic association studies have implicated variants in the 5-3-4 cholinergic nicotinic receptor subunit gene cluster on chromosome 15q24-25.1 for the risk of nicotine addiction, tobacco dependence, smoking, and lung cancer. Other studies have implicated the 6-subunit in nicotine addiction. This FOA seeks applications proposing to develop biological assays for constitutive receptor combinations involving 3, 5, 6, and/or 4 subunits, suitable ultimately for configuration as high throughput screening (HTS) assays. Once developed, these HTS-ready assays can, and will be expected to be, submitted for screening by the National Institutes of Health (NIH) Molecular Libraries Production Centers Network (MLPCN) to identify biologically active compounds in a large library of small molecule chemical structures

http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-11-007.html

Microsystems Technology

Deadline: March 01, 2011 **Funding Limit:** Varied

The Microsystems Technology Office's (MTO) mission is to exploit breakthroughs in materials, devices, circuits, and mathematics to develop beyond leading edge Microsystems components with revolutionary performance and functionality to enable new platform capability for the Department of Defense. To execute this mission, MTO supports revolutionary research in electronics, photonics, MEMS, algorithms, and combined Microsystems technology to deliver new capabilities to sense, communicate, energize, actuate, and process data and information for the war fighter.

MTO regularly publishes Broad Agency Announcements requesting responses to specific program topics. This announcement seeks revolutionary research ideas for topics not being addressed by ongoing MTO programs or other published BAA solicitations. This BAA is primarily, but not solely, intended for early stage research (Studies) that may lead to larger and focused MTO programs in the future. Studies are defined as single phase efforts of short duration (< 12 months) costing less than $1,000,000. Whereas proposers are strongly encouraged to submit Studies to this BAA, Multi-Phase Efforts will also be considered. Multi-Phase Efforts are efforts with more than one phase that may span longer than 12 months and that may cost more than $1,000,000. Multi-Phase Efforts must also cover discernable research topic areas that lead to clearly defined, quantitative technical metrics.

https://www.fbo.gov/download/c4f/c4f57ac02e0a6cd8b21923ecaa754a8d/MTO_Office-wide_DARPA-BAA-10-35_final_for_posting_2Mar10.pdf

Program Projects for Collaborative Research on the Basic Biology of Pluripotency and Reprogramming

Deadlines: Letter of Intent: October 01, 2010 **Application**: November 01, 2010 **Funding Limit:** Unspecified

The goal of this funding opportunity is to stimulate research on the basic biology of pluripotency and reprogramming of human cells using systematic and comprehensive approaches, including high-throughput methodologies as appropriate. Accordingly, the proposed research should focus on human iPSC and on comparative studies with other human stem cells. Any comparative studies must comply with applicable Federal regulations. Although the focus of this funding opportunity is on human cells, work that advances this goal via comparative studies of non-human mammalian pluripotent stem cells or embryos may be included.

http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-11-005.html

Limited Competition for the Global Research Initiative Program, Basic/Biomedical Sciences

Deadlines: Letter of Intent: December 10, 2010, AIDS Letter of Intent: February 10, 2011
Application: January 10, 2011, AIDS Application: March 10, 2011

This Funding Opportunity Announcement proposes to conduct basic biomedical research relevant to global health. This program is intended to promote productive development of foreign investigators from low- and middle-income countries (LMICs), trained in the U.S. or in their home countries through an eligible NIH funded research or research training grant/award. It is expected that this program will stimulate research on a wide variety of high priority health-related issues in those countries, and advance NIH efforts to address important global health issues.

http://grants.nih.gov/grants/guide/pa-files/PAR-10-278.html

Promoting Research and Innovation in Methodologies for Evaluation

Deadline: January 05, 2011 **Funding Limit:** Unspecified

The Promoting Research and Innovation in Methodologies for Evaluation (PRIME) program seeks to support research on evaluation with special emphasis on exploring innovative new approaches for determining the impacts and usefulness of evaluations of STEM education projects and programs; building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and growing the capacity and infrastructure of the evaluation field. Two types of proposals will be supported by the program: Exploratory Projects that include proof-of-concept and feasibility studies and more extensive Full-Scale Projects.

http://www.nsf.gov/pubs/2010/nsf10615/nsf10615.htm

Research News

A publication of the Office of Sponsored Programs

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