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1. 001: Small Business Innovation Research (SBIR) to Develop New or Improved Closed Loop Automated Technologies for Diabetes Therapy and Monitoring (R43/R44)

Release Date: 07-24-2015Open Date: 10-18-2015Due Date: 11-18-2015Close Date: 11-18-2015

Type 1 diabetes (T1D) results from the autoimmune destruction of the insulin-producing cells of the pancreatic islets of Langerhans and affects more than one million Americans, usually with onset in childhood or young adulthood. The disease markedly impairs quality of life and shortens lifespan primarily through premature mortality. T1D is associated with numerous complications including bli ...

SBIR Department of Health and Human Services

2. 001: Tools for Monitoring and Manipulating Modified RNAs in the Nervous System (R43/R44)

Release Date: 07-21-2015Open Date: 10-18-2015Due Date: 11-18-2015Close Date: 11-18-2015

Background Chemical modifications play a crucial role in the regulation of biological processes. For example, the function of a protein is often modulated by its stable tagging with phosphates, sugars, or lipids, while epigenomic marks on DNA or histones can help dial gene expression up or down. One area that lags behind is the systematic characterization of all the chemical modificati ...

SBIR Department of Health and Human Services

3. RFA-DA-16-006 : Tools for Monitoring and Manipulating Modified RNAs in the Nervous System (R41/R42)

Release Date: 07-21-2015Open Date: 10-18-2015Due Date: 11-18-2015Close Date: 11-18-2015

Background Chemical modifications play a crucial role in the regulation of biological processes. For example, the function of a protein is often modulated by its stable tagging with phosphates, sugars, or lipids, while epigenomic marks on DNA or histones can help dial gene expression up or down. One area that lags behind is the systematic characterization of all the chemical modificati ...

STTR Department of Health and Human Services

4. 001: Small Business Innovation Research (SBIR) to Develop New Methods and Technologies for Assessment of Risk and for Early Diagnosis and Prognosis of Type 1 Diabetes (T1D) (R43/R44)

Release Date: 07-28-2015Open Date: 10-18-2015Due Date: 11-18-2015Close Date: 11-18-2015

Early identification of T1D risk and the onset of autoimmunity provide the basis for a variety of major ongoing studies seeking to prevent or delay the disease. Already, research on the natural history of the development of T1D in at-risk neonates has shown that early identification of those at risk can foster early diagnosis of T1D and avoid life-threatening diabetic ketoacidosis (DKA).&nbs ...

SBIR Department of Health and Human Services

5. RFA-HL-15-019: HHS SBIR RFA-HL-15-019

Release Date: 04-15-2014Open Date: 10-16-2015Due Date: 11-16-2015Close Date: 11-16-2015

Purpose The objective of this Funding Opportunity Announcement (FOA) is to support the development of devices to evaluate dynamic changes in microvascular blood flow and tissue oxygenation. Devices designed to measure temporal changes in regional perfusion and oxygen delivery following red blood cell transfusion or in peripheral vascular disease are of particular interest. This FO ...

SBIR Department of Health and Human Services

6. RFA-HL-14-013: HHS SBIR RFA-HL-14-013

Release Date: 09-13-2013Open Date: 10-15-2013Due Date: 11-13-2015Close Date: 11-13-2015

The purpose of this Funding Opportunity Announcement (FOA) is to solicit Small Business Innovation Research (SBIR) applications to undertake the development of biomarker panels for point-of-care assessment. For the purpose of this FOA, biomarkers include measureable biochemical characteristics associated with the severity of acute sleep deprivation, chronic

sleep deficiency, or sleep disorde ...

SBIR Department of Health and Human Services

7. RFA-HL-15-026: HHS STTR RFA-HL-15-026

Release Date: 12-03-2014Open Date: 01-09-2015Due Date: 11-09-2015Close Date: 11-09-2015

Background Twenty-five years after discovery of the gene that causes cystic fibrosis (CF), we now are witnessing the emergence of drug therapies that target the fundamental molecular dysfunctions associated with mutations in the CF transmembrane conductance regulator (CFTR) gene. While these novel therapies offer an exciting prospect for modifying disease outcomes in CF, they may complicate even ...

STTR Department of Health and Human Services

8. A15-101: Fast Charging Rate and High Energy Power Systems for High Shock Survivability

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): WeaponsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of ...

SBIR ArmyDepartment of Defense

9. A15-102: CFD Runtime Acceleration on New Chip Architecture

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop a callable library of CFD numerical operations that exploit the performance of CFD solvers on new “many integrated core” processors such as the Intel® Xeon PhiTM. DESCRIPTION: Computer chip makers like Intel have recently introduced the advanced Many-Integrated-Core (MIC) architecture [1] with the goal of enhancing performan ...

SBIR ArmyDepartment of Defense

10. A15-103: Rotorcraft Elastic Fuselage Coupling with CFD

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop coupling methodology for computational structural dynamics (CSD) and computational fluid dynamics (CFD) models of flexible rotorcraft fuselage and empennage structures to predict interactional buffet airloads,

structural loads, and vibration. DESCRIPTION: One of the most important, challenging, and chronic problems occurring during deve ...

SBIR ArmyDepartment of Defense

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