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- Title (ascending)
- Open Date (ascending)
- Close Date (descending)
- Release Date (descending)

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Displaying 1 - 10 of 1641 results

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. 001: Open Design Tools for Speech Signal Processing (R43/R44)

Release Date: 09-01-2015Open Date: 09-01-2015Due Date: 10-01-2015Close Date: 10-01-2015

Purpose This Funding Opportunity Announcement (FOA) seeks applications to design, test, and disseminate acoustic signal processing tools that have the potential to accelerate research studies and facilitate translation of novel algorithms into use with hearing aids, cochlear implants, personal sound processors, and consumer electronic devices. Background

Open hardware and software designs that are ...

SBIR Department of Health and Human Services

7. CDC/NCIRD 032: Thermostable Dry Powder Live Attenuated Influenza Vaccine for Nasal Delivery

Release Date: 07-24-2015Open Date: 07-24-2015Due Date: 10-16-2015Close Date: 10-16-2015

Background Ongoing disease and death associated with seasonal influenza and the threat of an influenza pandemic are two of the highest priority issues for global public health. Vaccination is a powerful tool for preventing influenza, however, current vaccines have several limitations. Inactivated influenza vaccines (IIV) given by needle injection require skilled health care workers and can lead to ...

SBIR Department of Health and Human Services

8. NIH/NCI 341: Development of Metabolomics Data Integration Methods and Software

Release Date: 07-24-2015Open Date: 07-24-2015Due Date: 10-16-2015Close Date: 10-16-2015

Metabolomics is the study of small molecules participating in cellular metabolism. Advances in metabolic profiling technologies have made it possible to simultaneously assay hundreds of metabolites, providing insight into an organism’s metabolic status.

SBIR Department of Health and Human Services

9. NIH/NCI 342: Validation of Mobile Technologies for Clinical Assessment, Monitoring & Intervention

Release Date: 07-24-2015Open Date: 07-24-2015Due Date: 10-16-2015Close Date: 10-16-2015

Mobile health technologies have grown exponentially in the past few years. The ubiquity of mobile phone use provides a platform for health assessment, monitoring and interventions previously unavailable to health research and clinical practice.

SBIR Department of Health and Human Services

10. NIH/NCI 343: An Electronic Platform for Cognitive Assessment in Cancer Patients

Release Date: 07-24-2015Open Date: 07-24-2015Due Date: 10-16-2015Close Date: 10-16-2015

Persistent cognitive deficits are a frequent complaint of the increasing population of cancer survivors, particularly those who have undergone chemotherapy.

SBIR Department of Health and Human Services

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- ...
- Next
- Last

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