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1. CBD12-101: Formulation Development to Enhance Bioavailability and Pharmacokinetic Profile of Protein-based Drugs

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop novel methods to improve bioavailability and pharmacokinetic profile of protein-based drugs. DESCRIPTION: Protein-based drugs are becoming an increasingly important class of drugs. A great deal of effort is being made to improve their efficacy by improving their bioavailability and increasing their stability within the circulatory system. For example, Human-derived Butyr ...

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2. CBD12-102: Advanced Purification Technology for the Manufacture of Vaccines, Biologic Drugs, and Enzymes

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop novel, non-synthetic-resin-based protein purification technologies that enables the low-cost production of kilogram quantities of proteins for chemical and biological defense applications. DESCRIPTION: Recent investments by the DoD have been made in areas to increase the agility of the government to respond to a future pandemic or chemical/biological threat in development ...

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3. CBD12-103: Design Automation Software for DNA-Based Architectures

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop and demonstrate a DNA design automation software package that allows for the specification of large and complex DNA-based architectures. Develop methods to define and manipulate charge and hydrophilicity at the nanoscale. DESCRIPTION: The folding of single- and double-stranded DNA is a chemically well-understood and controllable process. DNA is generally associated with th ...

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4. CBD12-104: Detection of Liquid Contaminants on Surfaces Using Hyperspectral Imaging

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop a hyperspectal imaging standoff sensor for detecting liquid contaminants on surfaces using passive infrared spectroscopy based on cold-sky reflectance. DESCRIPTION: Surface contamination by CB agents presents a serious threat both to the civilian and military sectors and an adequate defense against these weapons will require rapid detection and identification of both known ...

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## 5. CBD12-105: Oxygen Storage Technology for Closed-Circuit Self-Contained Breathing Apparatus

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop high-capacity, low-pressure oxygen storage technology for the development of lower maintenance and lighter weight closed-circuit self-contained breathing apparatus with reduced logistical burden. DESCRIPTION: A Self-Contained Breathing Apparatus (SCBA) is a type of respiratory protection device that provides breathing gas from a source independent of the surrounding atm ...

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## 6. CBD12-106: Carbon Dioxide and Water Removal Technology for Closed-Circuit Self-Contained Breathing Apparatus

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop high-capacity, low-pressure carbon dioxide removal technology for the development of lower maintenance and lighter weight closed-circuit self-contained breathing apparatus with reduced logistical burden. DESCRIPTION: A Self-Contained Breathing Apparatus (SCBA) is a type of respiratory protection device that provides breathing gas from a source independent of the surround ...

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## 7. CBD12-107: Continuous Ionization System for Electrostatic Collection of Bioaerosols in Building Protection Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a system capable of continuous ionization of airborne bioaerosols in the 0.5-5 m size range that does not generate ozone. The system should be designed for use in electrostatic removal of bioaerosols in HVAC environments at reduced operational costs compared to HEPA filtration. DESCRIPTION: Continually operating, or"always on,"removal of airborne particulates provides not on ...

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## 8. CBD12-108: Rapid Sample Transport in Austere Environments

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop advanced, innovative approaches for rapid sample preservation and transport in austere environments. Topic objectives include innovative technologies to enable a low-cost capability to preserve and exfiltrate small medical and environmental biological samples from austere locations and precisely deliver the sample to a pre-determined recovery area. Austere locations are de ...

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