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1. CBD15C-001: Infectious Disease Diagnostics and Differentiation of Viral vs. Bacterial Infections for Point of Care Applications

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

   TECHNOLOGY AREA(S): Chemical/Biological Defense; Biomedical OBJECTIVE: To provide an easy to use human clinical diagnostic testing technology which is effective for the detection, identification and differentiation of a wide range of viral and bacterial diseases caused by endemic diseases and biological warfare agents. Capabilities sought should be rapid and highly sensitive and selective sol ...

   STTR Office for Chemical and Biological DefenseDepartment of Defense

2. CBD152-001: Adjustable Focus Lenses for Respiratory Protection

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

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3. CBD152-002: Smart Split Neck Seals for Respiratory Protection

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

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4. CBD152-003: Development of Mycotoxin Medical Countermeasures

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

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5. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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6. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

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7. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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8. T1.01: Affordable Nano/Micro Launch Propulsion Stages

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):LaRC,KSC,GRCAs small satellites have become more capable of performing valuable missions for both government and commercial customers, there has been significant growth in both the quantity and quality of Nano and Micro Satellite missions. Currently these satellites can only be launched affordably as secondary payloads; but the number of these missions has o ...

STTR National Aeronautics and Space Administration

9. T1: Launch Propulsion Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Launch Propulsion Systems reflects a staged development of critical technologies that include both pull technologies that are driven by known short- or long-term agency mission milestones, as well as push technologies that generate new performance or mission capabilities over the next 20 to 25 years. While solid and liquid propulsion systems are reaching the theoretical limits of efficienc ...

STTR National Aeronautics and Space Administration

10. T11.01: Information Technologies for Intelligent and Adaptive Space Robotics

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):JSC,JPLThe objective of this subtopic is to develop information technologies that enable robots to better support space exploration. Improving robot information technology (algorithms and software) is critical to improving the capability, flexibility, and performance of future missions. In particular, the NASA "Robotics, Tele-Robotics, and Autonomous Systems" ...

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