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1. DHP15B-001: Conversion to Universal Plasma

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 20131. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

STTR Defense Health ProgramDepartment of Defense

2. DHP15B-002: Laser and Lightwave Therapies for Wound Healing Application

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Since 8 December 2007, the war in the Middle East has seen over 30,000 soldiers injured in combat with the majority of these injuries occurring the last few years [1]. Despite the type of the injury, the majority of the wounded have suffered some degree of soft tissue injury which needs to be addressed. Since these soldiers endure harsh conditions and their wounds are much more likely to become in ...

STTR Defense Health ProgramDepartment of Defense

3. 9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

4. 9.02: Climate Change and Clean Energy

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards. These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts. Such capabilities will be equally important for assessing the impact of energy and climate change policies on t ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

5. 9.03: Cybersecurity

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework – based on existing standards, guidelines, and practices - for reducing cy ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

6. 9.04: Health Care and Bioscience

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where National Institute of Standards and Technology (NIST) research serves the needs of the bioscience and health care community. NIST collaborates extensively with o ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

7. 9.05: Technology Transfer

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This is the main research area, please review subtopics for a better description of available funding topics.

SBIR National Institute of Standards and TechnologyDepartment of Commerce

8. DHP14-001: Reducing the Burden on Military Tactical Networks by Lowering the Impact of Digital Medical Image Transmissions

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Seek methodologies and emerging technologies to reduce the burden on the military"s tactical networks derived from the transmission of digital medical imagery. DESCRIPTION: Recent military conflicts and humanitarian relief operations have placed new demands on healthcare providers in terms of providing medical diagnoses for injuries from remote locations as part of an ever-expanding ...

SBIR Department of DefenseDefense Health Program

9. DHP14-002: Computer-Generated, Synthetic Medical Images and Complex Narratives for Use in Healthcare Informatics Research

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date:

01-22-2014

OBJECTIVE: As a first objective, conduct basic and applied research surrounding new technologies to computer-generate completely synthetic, complex, medical text narratives for subsequent use in clinical informatics research and healthcare information technology feasibility studies. As a second objective, conduct basic and applied research surrounding new technologies to computer-generate complete ...

SBIR Department of DefenseDefense Health Program

10. DHP14-003: Mobile Application for Improved Sleep through Sleep Hygiene Training Feedback

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Design, develop and deploy a mobile application which provides sleep hygiene training feedback and cueing to improve sleep quantity and quality. DESCRIPTION: The U.S. Army Surgeon General has defined the Performance Triad as a component to improve the readiness and resiliency of U.S. Army personnel (Bermudez, 2013; USAPHC Public Affairs Office, 2012). The components of the Triad ar ...

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