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TEDCO Awards Twelve Companies a Total of \$599,934 Through Ft. Detrick Technology Transfer Initiative

*Aid Networks, APE-Bridgepath Scientific, Inc., Bacilligen, Inc., BioAssay Works, LLC, Biomedica Management Corp., CynerGene IDMP, DS-Byte Solutions, LLC, HeMemics Biotechnologies, Inc., Imagilin Technology, LLC, Intelligent Substrates, Inc., Juxtopia, and Theradigm, Inc.,
Each Receive Funding Through Extension of Initiative*

COLUMBIA, Md. (June 10, 2009) – The Maryland Technology Development Corporation (TEDCO), in collaboration with the U.S. Army Medical Research and Materiel Command (USAMRMC) and the Frederick County Office of Economic Development (OED), today announced that twelve companies have been awarded a total of \$599,934 in funding through the Ft. Detrick Technology Transfer Initiative (FDTTI). Aid Networks, APE-Bridgepath Scientific, Inc., Bacilligen, Inc., BioAssay Works, LLC, Biomedica Management Corp., CynerGene IDMP, DS-Byte Solutions, LLC, HeMemics Biotechnologies, Inc., Imagilin Technology, LLC, Intelligent Substrates, Inc., Juxtopia, and Theradigm, Inc., have each received approximately \$50,000. This is the second round of funding through the program’s \$750,000 extension. The twelve awards were made between March 2008 and May 2009.

“I am working in the United States Senate to make our economy stronger, make America smarter and make our troops and our communities safer - that's what the FDTTI program is working on too,” said Senator Barbara A. Mikulski (D-Md.). “The FDTII program is enabling area businesses to harness the technologies being developed at Fort Detrick and apply them to the commercial sector. This will lead to new products that have the power to create jobs and save lives. I will continue to fight for federal investments that will help strengthen our economy and increase the safety of our citizens and troops.”

“Programs like FDTTI are instrumental in keeping Maryland at the forefront of the technology marketplace,” said Governor Martin O’Malley. “Maryland is fortunate to be home to Ft. Detrick and these innovations and I look forward to the results of TEDCO’s FDTTI program and other initiatives that produce technology advancements in our state.”

Through FDTTI, TEDCO works with the USAMRMC to maintain awareness of new and developing technologies, as well as develop effective strategies for the transition of successful projects to follow-on funding. Funding for the program’s second phase was secured by Sen. Barbara A. Mikulski and Rep. Roscoe G.

Bartlett. The initial phase of the FDTTI program, which was announced by Sen. Mikulski in March 2005, provided funding for 11 companies and entrepreneurs. TEDCO, the USAMRMC, and Frederick County OED work to efficiently manage the proposal funding, reporting and transition phases of projects; and coordinate with the Ft. Detrick Business Development Office to increase procurement opportunities for small businesses.

“Ft. Detrick plays a leading role in developing advanced medical technologies and FDTTI helps bring these innovations to the marketplace to benefit society as a whole and brings new technologies to the Army to help them meet their mission,” said Renée Winsky, executive director of TEDCO. “We are pleased to use this federally funded program to foster TEDCO’s mission to foster the growth and production of early-stage technology companies and we look forward to following the progress of all of the companies that have received funding under FDTTI.”

“Ft. Detrick has been very pleased with the direction of the FDTTI program thus far and these 12 companies exemplify the promise and potential of the program,” said Paul Mele, director of the Office of Research Technology Applications at the USAMRMC. “We are proud to continue our partnership with TEDCO through this second round of FDTTI funding and are eager to see the contributions that these companies will make to medical advancements, research and development.”

Descriptions of the twelve companies and their technologies are as follows:

Aid Networks, located in Rockville, Md., is working to develop a miTag system, which is a scalable wireless sensor solution that can improve the efficiency of patient flow, increase the volume of patients treated, and improve the quality of care both on a daily basis and during disasters.

APE-Bridgepath Scientific, Inc., located in Frederick, Md., is working to further develop the GeNova Screen, which is a rapid technology for the identification, isolation, and production of antibody-like molecules using a selectable bacterial-surface display system. The GeNova Screen will consist of an engineered bacterial collection in which each bacterium is capable of expressing one of a library of different receptor proteins on its surface. The identified proteins can be used as therapeutics, diagnostics, and research reagents.

Bacilligen, Inc., located in Rockville, Md., is working to develop a novel, flexible platform for rapid, on-demand biological manufacturing including a proprietary combination vaccine against plague and anthrax.

BioAssay Works, LLC, located in Ijamsville, Md., is working to develop an optimized, sensitive, lateral-flow visual diagnostic test able to detect and differentiate from a single sample multiple pathogenic poxviruses, including variola, vaccinia, and monkeypox. A prototype diagnostic assay will be designed, manufactured, and tested for the ability to accurately identify and discriminate between vaccinia and monkeypox.

Biomedica Management Corp., located in Catonsville, Md., is testing the safety of a non-compressible intracavitary hemostatic agent, ClotFoam. ClotFoam has been developed and successfully tested for efficacy in military relevant animal models.

CynerGene IDMP, located in Frederick, Md., is developing, validating and implementing a supplemental diagnosis of Malaria, HIV, and Dengue using CynerGene’s Infectious Disease Multiplex Panel

(IDMP) approach. The IDMP will assist existing industries in becoming more productive by creating innovative biosensors which can become rapidly mainstreamed to meet the surging demand of the new market for rapid, accurate, and non-invasive diagnostics.

DS-Byte Solutions, LLC, located in Baltimore, Md., is developing the required operational components and standard system framework that facilitates a intuitive conversational oriented interface to be leveraged by third-party telemedicine tools to provide professional medics the ability to use voice, gesture, and other novel human computer interaction techniques to access and document medical care and patient notes to and from an Electronic Medical Record (EMR) system.

HeMemics Biotechnologies, Inc., located in Rockville, Md., is working to further develop an innovation that preserves mammalian cells in dried format, which are easily rehydrated for use in a variety of applications.

Imagilin Technology, LLC, located in Frederick, Md., is working to evaluate the effect of Imagilin patented probiotics as a food supplement to enhance the immune responsiveness of guinea pigs upon immunization or challenge with virulent pathogens. This project will demonstrate the ability for the Imagilin patented probiotics to function as biological adjuvant for enhancing immunization of a vaccine.

Intelligent Substrates, Inc., located in Baltimore, Md., is working to develop micropatterned substrates for viral infectivity assays. These substrates offer a number of advantages over current cell culture approaches including increased sensitivity to cellular responses in pathogenicity, toxicity, and pharmacological screens, as well as improved performance of high-content screening assays by prepositioning cells on the substrate.

Juxtopia, located in Baltimore, is working to customize the Juxtopia Wearable Assistance and Situational Awareness (WASA) goggles and WASA Assistance Service to enable U.S. Army combat medics the ability to access and document information to a distributed Electrical Medical Record (EMR) with hands-free voice-requests and voice-responses.

Theradigm, Inc., located in Baltimore, Md., is developing cell therapies for the treatment of brain and spinal cord disorders, such as stroke, spinal cord injury, and traumatic brain injury. The cell therapies will use at least two different types of cells, including neural stem cells and bone marrow stem cells, which are applied alone or in combination for repair or regeneration of the brain or spinal cord.

The Maryland Technology Development Corporation (TEDCO), an independent entity, was established by the Maryland General Assembly in 1998 to facilitate the creation of businesses and foster their growth in all regions of the State. TEDCO's role is to be Maryland's leading source of funding for seed capital and entrepreneurial business assistance for the development, transfer and commercialization of technology. TEDCO connects emerging technology companies with federal laboratories, research universities, business incubators and specialized technical assistance. For the fifth consecutive year, TEDCO was recognized as the most active seed/early-stage investor in the nation in the August 2008 issue of Entrepreneur magazine and received the national Excellence in Technology-Based Economic Development award from the State Science and Technology Institute (SSTI) for the Maryland Technology Transfer Fund (MTTF) program in October 2008. For more information on TEDCO and its programs and resources, visit www.MarylandTEDCO.org.

The Frederick County Office of Economic Development's (OED) mission is to support, retain and foster the growth of existing businesses in Frederick County and attract new businesses that bring career opportunities that enable Frederick County citizens to work where they live.

The U.S. Army Medical Research and Materiel Command is the Army's medical materiel developer, with lead agency responsibility for medical research, development, and acquisition; medical information management and information technology; medical logistics management; and health facility planning. The USAMRMC's expertise in these critical areas helps establish and maintain the capabilities the Army needs to fight and win on the battlefield.

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