

Appili signs \$3M grant contract with the US Defense

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Appili's multi-drug resistant antibiotic program has the potential to address public health threats for both military and civilian populations worldwide



Appili Therapeutics Inc. (“Appili”), a biopharmaceutical company focused on anti-infective drug development has announced that the United States Department of Defense, (DOD) Congressionally Directed Medical Research Programs, Peer Reviewed Medical Research Program (PRMRP) has completed the contract awarding the Company a \$3.0 million USD grant.

Appili will use the funds to continue advancing its ATI-1503 antibiotic program, which targets drug-resistant, Gram-negative bacteria also known as ‘superbugs.’ The ATI-1503 program has the ability to target 4 out of 6 “ESKAPE” pathogens, which are the leading cause of hospital acquired infections worldwide [i]. PRMRP grants support military health-related research that has the potential to make a strong impact on patient care.

According to the World Health Organization, drug-resistant bacteria, particularly the superbugs that are resistant to most or sometimes all available anti-infectives, are among the highest threats to human health worldwide. The U.S. Centers for Disease Control and Prevention (CDC) report that they are responsible for more than 2 million infections and 23,000 deaths each year in the U.S. alone. In addition to the widespread civilian vulnerabilities that they present, these superbugs pose serious challenges in both internationally deployed troops and domestic military personnel in veterans’ hospitals. The significance of these threats, and their prevalence worldwide, have made solutions to multi-drug resistant bacteria a priority research area for the Department of Defense (DOD).

Appili’s ATI-1503 program is a new class of antibiotics based on the negamycin scaffold, which is a naturally occurring compound with intrinsic Gram-negative antibacterial activity. The class has broad spectrum activity, which allows it to potentially address the deadliest Gram-negative bacteria, including the superbugs *Klebsiella pneumoniae*, *Acinetobacter baumannii*, and *Pseudomonas aeruginosa*. These are high priority pathogens for the CDC and WHO because of the lack of effective antibiotic treatment options for the most resistant strains.