

Identification of Small Molecule Inhibitors of Anthrax Lethal Factors

U.S. Army Medical Research And Materiel Command

Anthrax has recently been the subject of intense interest because of its use as a biological weapon. The inhalation of anthrax spores is usually fatal if it is not properly diagnosed and treated with the antibiotics during the early stages of infection. Unfortunately, the antibiotics that we have today are not always effective, and therefore it has become necessary to formulate a new and more successful treatment for anthrax. To help in this cause and global concern, Microbiotix Inc. has teamed up with the U.S. Army Medical Research and Materiel Command (USAMRMC) and the National Institute of Health (NIH). Maryam Azarion, of USAMRMC, was the key player in the development, negotiation and execution of a patent license agreement between Microbiotix and the U.S. Government. Microbiotix was awarded an exclusive license to develop and commercialize a small molecule that has inhibition activity, to prevent and treat anthrax poisoning. In 2001, five Americans died from anthrax inhaled from contaminated mail. This patent license agreement allows Microbiotix to take the early stage technology developed by Army and NIH scientists and contractors and to further fund and develop it. These additional developments can lead to various potential discoveries in helping to overcome not only anthrax poisoning, but also bacterial resistance overall. Due to the fact that the bacteria can build up resistance to antibiotics, it's a global concern to develop new treatments for bacteria infections as well.

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