



Could a targeted research initiative jump-start antibiotic discovery?

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April 28, 2017

2:10 - 3:00 p.m.

Maginnes, Room 290

Abstract

The Pew Charitable Trusts is a non-profit research and policy organization that has been working to spur the innovation of new antibacterials since 2010. In May 2016, Pew published a Scientific Roadmap for Antibiotic Discovery (roadmap), which outlines a concrete approach—both a scientific plan and organizational structure to support this research—that would lay a foundation for the sustained and diversified discovery and development of new antibiotics and therapies over the coming decades. If implemented, the roadmap initiative would tackle the following key priorities: 1) find and design molecules that get into and stay inside of Gram-negative pathogens, 2) develop proof-of-concept studies to evaluate non-traditional approaches for the treatment of systemic bacterial infections, and 3) create a mechanism for sharing discovery information across sectors and disciplines. As a first step towards implementation, Pew has committed to establishing an antibiotic discovery information-sharing platform for publicly sharing data, analysis, and expert commentary across the research community



Carolyn Shore's Bio

As an officer on Pew's antibiotic resistance project, Carolyn Shore leads work on research and policies to help spur the discovery and development of urgently needed antibiotics. Prior to joining Pew, Shore served as a foreign affairs officer at the U.S. Department of State, where she led an initiative on open data and innovation-based solutions to global challenges. She also served as the State Department's representative to several intergovernmental organizations focusing on biosecurity, food safety, and agricultural trade policy. Previously, Shore was an American Society for Microbiology congressional fellow, working on science-based policy related to antibiotic stewardship and other public health issues. Shore has a bachelor's degree from the University of Massachusetts Amherst and a Ph.D. in microbiology and molecular genetics from Harvard University. She has received numerous awards and fellowships, including a Fulbright fellowship, and is a widely published author in many scientific publications.

Dr. Shore's visit is hosted by the Lehigh Membrane Group