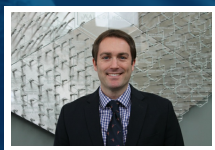


Overcoming Antibiotic Resistance With Improved Treatments



Warren Rose
Associate Professor, Pharmacy

CURRENT RESEARCH

Understanding, identifying, and combating resistance mechanisms in infectious diseases

Antibiotics and vaccines have played an important role in extending our lifespan by an average of 25 years. However, we are on the verge of a post-antibiotic era. Identified as a public health crisis, antimicrobial resistance is an increasing threat to global health. There are few new novel antibiotics available for treatment due to a decrease in pharmaceutical companies invested in antibiotic discovery and development. In the U.S. alone, about 2,000,000 people are infected with drug-resistant bacteria and roughly 23,000 deaths occur as a result [1]. Dr. Warren Rose, Associate Professor of Pharmacy at University of Wisconsin-Madison School of Pharmacy—both a practicing pharmacist and researcher—is trying to solve the growing problem of antibiotic resistance in infectious diseases by identifying real issues seen in his patient care setting and studying potential solutions to those problems. His translational and clinical research actively looks at how antibiotic exposures and treatments lead to the development of resistance, identifies treatment strategies to prevent resistance development and spread, and directly applies his findings to patients.

With the rise of antibiotic over-prescribing and misuse in our healthcare system, previously simple infections and procedures may soon become life-threatening. Use of the wrong antibiotic can select for antibiotic resistance, which can rapidly spread locally and globally, especially in hospitals. This can lead to deaths, a rise of health care costs, and a depletion of resources. Dr. Rose and his team of laboratory and clinical research fellows, an international medical scholar, a medical microbiology and...

AFFILIATION



University of Wisconsin-Madison

EDUCATION

- PharmD in Pharmacy 2004, Butler University
- Residency, Rush University Medical Center
- Fellowship, Wayne State University Anti-infective Research Laboratory

RESEARCH AREAS

Life Science, Diagnostics, Immunology / Inflammatory, Infectious

FUNDING REQUEST

Your contributions will support Dr. Rose's continued research at University of Wisconsin-Madison School of Pharmacy to better understand and treat antibiotic-resistant pathogens. Donations will help fund the \$70K/year needed for one full-time post-graduate trainee and the \$12K/year necessary for resources, such as lab supplies and materials. His research is in the initiation stage and can be applied directly to patients. Support the treatment of infectious antibiotic-resistant diseases; fund Dr. Rose.

[Read More at benefunder.com/](https://benefunder.com/)