



ECK INSTITUTE FOR
**GLOBAL
HEALTH**

PAUL P. WEINSTEIN MEMORIAL LECTURE

“Beyond the Bench: The Challenges of Introducing an Emerging Technology for Control of Vector-Borne Diseases”

STEPHANIE JAMES, PhD, FASTMH

Senior Vice President, Science
Foundation for the National Institutes of Health

Wednesday, April 10

4:00 - 5:00 pm

283 Galvin Life Science Center



Having observed examples in nature of the preferential inheritance of genetic traits for many decades, scientists have now been able to use techniques of modern molecular biology to mimic this phenomenon in the laboratory. These “gene drive” systems are being proposed as powerful new tools to reduce the transmission of mosquito-borne diseases such as malaria, as well as to reduce the harms caused by insect agricultural pests and invasive rodent species. Dr. James will use the example of gene drive technologies aimed at malaria control and elimination to discuss the complex issues that factor into the development pathway for such a new technology, focusing on preparations for testing of safety and efficacy including regulatory authorization and public acceptance.