

**Yale** SCHOOL OF PUBLIC HEALTH  
*Epidemiology of Microbial Diseases*

**EMD Seminar Series**

**Brandon Brei Memorial Lecture**

**Flaminia Catteruccia, PhD**

**Melvin J. and Geraldine L. Glimcher Associate Professor of  
Immunology and Infectious Diseases  
Harvard T.H. Chan School of Public Health**

**“Sex and parasite transmission in the malaria mosquito  
*Anopheles gambiae*”**

Nearly 200 million people are infected every year by malaria parasites, and more than 10 million people have already died because of malaria infections since the turn of this century, mostly young children in sub-Saharan Africa. Here we present studies on the molecular and genetic mechanisms that shape the interplay between mosquito reproductive biology and *Plasmodium* development in *Anopheles gambiae* mosquitoes. We show how the malaria parasite exploits the physiological environment created by mating and blood feeding in the female *Anopheles* to achieve its own transmission, and how knowledge of mosquito biology and mosquito-*Plasmodium* interactions can contribute novel tools and concepts for malaria control.

**12:00 PM Thursday, February 8, 2018**

**LEPH 115, 60 College Street**

**Host: D. Weinberger and S. Parikh**