

1156-92-390

Chadi M Saad-Roy* (csaadroy@princeton.edu). *Eco-evolutionary dynamics of pathogens*. Preliminary report.

Pathogens exhibit rich diversity due to a variety of factors. For example, pathogen infections can lead to immunity, which then leads to strong selection. For adequate disease control, it is thus crucial to understand both epidemiological and evolutionary dynamics of pathogens. In this talk, I will present recent work on pathogen eco-evolutionary dynamics, and will highlight the implications that these results have for control strategies. (Received January 28, 2020)