Cologne Evolution Colloquium

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Stochastic nature of bacterial eradication using antibiotics

Frequent antibiotic failure is a serious threat to public health. To cope with this threat, it is critical that we better understand population bacteria dynamics of exposed to antibiotics. In this talk, I will present our recent laboratory studies showing stochastic nature of bacterial eradication using antibiotics. We drugs that bactericidal induce population fluctuations, leading to stochastic population dynamics. Consequently, bacterial clearance does not follow a deterministic highly probabilistic. These course but is population fluctuations may be manipulated to facilitate bacterial eradication.

> Tuesday May 29, 2018, 17:00 University of Cologne Institute for Biological Physics Seminar Room 0.02, Ground Floor

> > Hosted by Tobias Bollenbach