Cologne Evolution Colloquium

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Bacterial Growth and Death – Towards a Physiological Understanding of Bacterial Fitness

Evolution works on sequences, but is directed by the physiological effects produced by the changes of these sequences. For practically all biological systems, we are far away from a deep physiological understanding of fitness, i.e. how molecular machinery determines survival reproductive success. However, and considerable progress has been made in recent years. I will review some of the progress for the bacterial model organism Escherichia Coli, with emphasis on our own work on the quantitative physiology of cell growth and death. ultimate goal is to be able to measure and understand the different physiological "costs" and "benefits" associated with the molecular components of the system.

Wednesday, April 25, 2018, 17:00
University of Cologne
Institute for Theoretical Physics
Seminar Room 0.02, Ground Floor

Hosted by Michael Lässig