Cologne Evolution Colloquium

Gavin J. Sherlock Stanford University

Population Dynamics, Beneficial Mutations and Evolutionary Trade-offs in Yeast

We have developed a lineage tracking system, based on random DNA barcodes, that allows us to follow the adaptive lineages emergence within of an evolving population characterize the dynamics of to the evolutionary process. We can further use the lineage tags to identify and isolate specific lineages for whole genome sequencing, and fitness remeasurement, such that we can characterize the molecular basis of adaptation, and the costs incurred by such mutations in other experimental conditions. These data allow us to determine where within the growth cycle adaptive lineages gain their fitness benefits.

Wednesday, April 19, 2017, 17:00 University of Cologne, Institute for Theoretical Physics Conference Room 2, Ground Floor

Hosted by Dario Valenzano and Michael Lässig