

Cologne Evolution Colloquium

SFB 680
Molecular Basis of
Evolutionary Innovations

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Growth-dependent action of cell-wall targeting antibiotics

Many clinically relevant antibiotics target bacterial cell wall synthesis. Although it is known which antibiotics bind which cell wall synthesis enzymes, how this leads to bacterial growth inhibition and killing is unclear. We have measured growth curves for *Escherichia coli* bacteria in the presence of various cell-wall targeting antibiotics, on a variety of growth media. We see clear effects of growth rate on the antibiotic efficacy. I will discuss these results and present a preliminary mathematical model which seeks to explain them.

Thursday, May 11, 2017, 11:00am
University of Cologne, Institute for Theoretical Physics
Conference Room 2, Ground Floor

Hosted by Berenike Maier