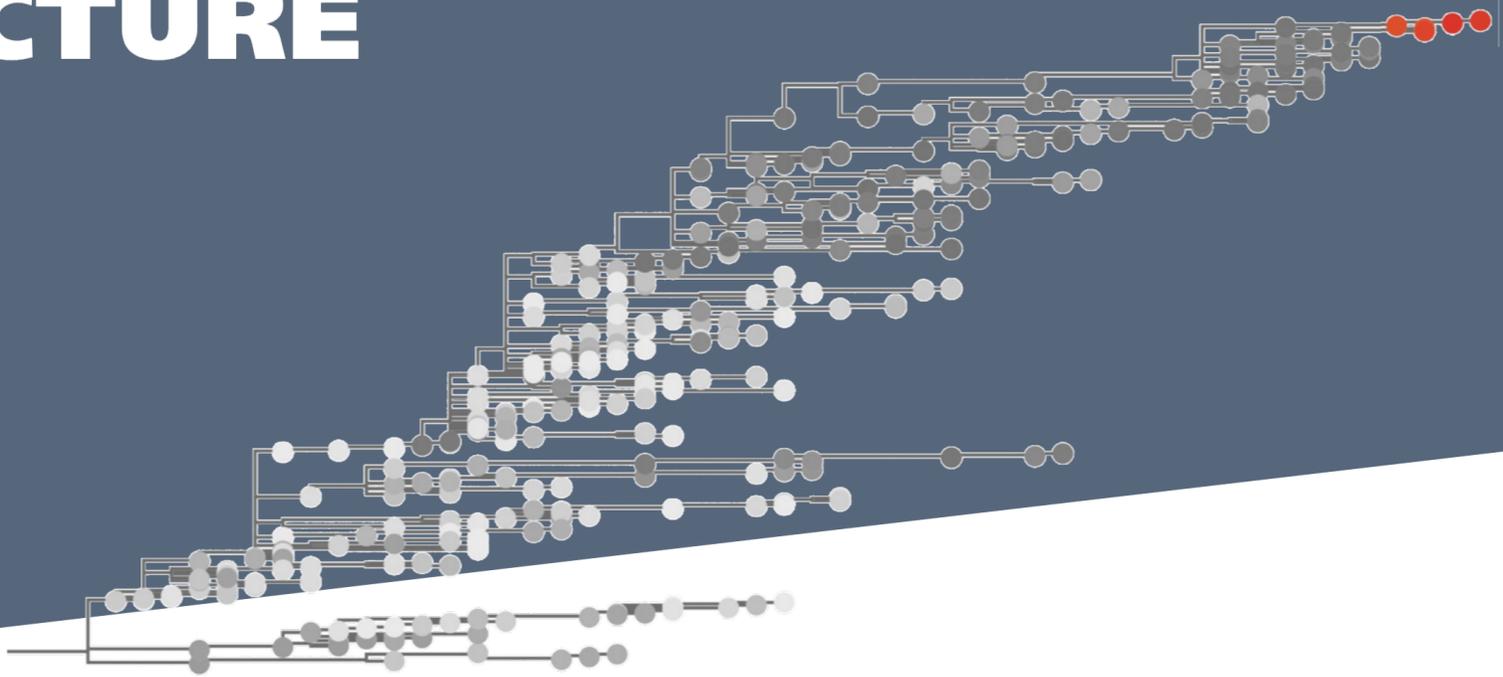


MAX DELBRÜCK LECTURE



Competition and warfare in bacteria: from model systems to the microbiome

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Microbial communities contain many evolving and interacting bacteria, which makes them difficult to understand and predict. Using a combination of theory and experiment, we study what it takes for bacteria to succeed in diverse communities. One way is to actively kill and inhibit competitors and we study the strategies that bacteria use in toxin-mediated warfare, including reciprocation and the scorched-earth strategy of making broad-spectrum antibiotics. We are now using our understanding of bacterial competition to try to manipulate gut communities for better health. Our goal is to both stabilise microbiome communities and remove problem species without the use of antibiotics.

Thursday, March 23, 2023, 17:00
University of Cologne
Biological Physics, Zùlpicher Str. 77 a
Seminar Room S0.03

Hosted by Isabel Rathmann & Michael Lässig