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The ecology and evolution of bacterial genomes

Since the first genome-scale comparisons, it has been evident that the genomes of many bacterial species are unbound by strict vertical descent: Large differences in gene content can occur among genomes belonging to the same bacterial species, with only a fraction of genes being universal to all genomes. This variation arises due to gene gain by genomes from other species through horizontal gene transfer (HGT) and differential gene loss among genomes, and HGT plays a central role in bacterial evolutionary innovation and adaptation. In this talk I will present data from our recent experimental evolution studies exploring how the dynamics of horizontal gene transfer shape bacterial genomes.

Wednesday, December 4, 2019, 17:00

Institute for Biological Physics, Zülpicher Str. 77a

Seminar Room 0.02, Ground Floor

Hosted by Berenike Maier