## Cologne Evolution Colloquium

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## Mitochondria-Microbe conflict

Mitochondria often considered are host targets during exploitable microbial However, these infection. organelles, essentially domesticated parasites, oxidize various carbon sources including fatty acids, and thus ostensibly compete with microbes. previously shown that during We have with infection the human parasite Toxoplasma, mitochondria fuse to enhance their fatty acid uptake. This response limits Toxoplasma access to a key host resource and restricts its proliferation. Here, we define a potential mechanism by which host mitochondria compete with Toxoplasma for lipids. In addition, we investigate host whether MAF1, a secreted parasite protein that tethers host mitochondria, provides strains of Toxoplasma a certain counter strategy to mitochondrial metabolic defense.

Wednesday, December 11, 2019, 17:00 Institute for Biological Physics, Zülpicher Str. 77a Seminar Room 0.02, Ground Floor

Hosted by Michael Lässig