

Biologisches Kolloquium im Biologiezentrum der Christian-Albrechts-Universität zu Kiel

**Montag, 20.Mai 2019
16 Uhr c.t.**

im Hörsaal E 60 des Biologiezentrums
Am Botanischen Garten 5

spricht

Prof. Dr. Knut Drescher

University Marburg, Max Planck Institute for Terrestrial Microbiology

über das Thema:

Bacterial Multicellularity in Biofilms

On most moist surfaces, bacteria grow into communities termed biofilms. Such biofilms display strongly increased tolerance to antibiotics, and constitute the most abundant form of biomass on Earth. I will first present a new microscopy and imaging technique we recently developed to follow dynamical processes in biofilms at the single-cell level. Using this technique, I will reveal how biofilms respond to antibiotic stress at the single-cell level, and at the multi-cell level, thereby identifying group-level functions of biofilm communities. I will also demonstrate how two bacterial collective behaviors, swarming and biofilm formation, are related by physical interactions, chemical signaling, and dynamical transitions.

**Alle Interessent/Innen,
insbesondere auch die Studierenden,
sind herzlich willkommen.
*Die Dozenten des Biozentrums***

