

Graduate Schools
Infection Immunity and Cancer, UniGe & UniL: CUS
Biology & Medicine, CMU

Seminars in Microbiology

Monday, 29th September, 2014

Salle de séminaire 7172, CMU

11:30 – 12:30

Prof. Dr. Peter Graumann

LOEWE-Zentrum für Synthetische Mikrobiologie
University of Marburg



“Cell cycle control in a bacterium at single molecule level”

Peter Graumann explores cytoskeletal elements and the spatial regulation of DNA replication/segregation factors in bacteria using *Bacillus subtilis* as model system. He has also made important discoveries on the subcellular distribution of the competence machinery and the cytology of DNA strand exchange during DNA uptake. Recently, he has also begun interrogating the role of the MreB actin cytoskeleton and coiled-coil rich protein in the pathogenesis of *Helicobacter pylori* and is using super-resolution fluorescence imaging techniques to understand the underlying protein dynamics.

Recent publications:

Kleine Borgmann et al, 2013, Cell Reports, 3(5):1483-92.
Olshause et al, 2013, Biophys J., 105(5):1171-81.
Reimold et al, 2013, Mol Biol Cell., 24(15):2340-9.
Cárdenas et al, 2012, PLoS Genet., 8(12):e1003126.

Contact: P. Viollier

Sandwiches will be offered after the seminar