



## **Investigating dynamic processes in *Acanthamoeba***

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*Acanthamoeba* are unicellular organisms that can cause severe diseases such as keratitis and encephalitis. For their infectious behaviour, their motility and the motion of their endogenous granules plays a crucial role. We are employing live cell imaging, force microscopy and surface functionalization techniques in order to investigate the adhesion, intracellular dynamics and active forces of *Acanthamoeba*. For example, we have shown that intracellular granule motion is dominated by ballistic motion, whereas diffusion seems to play a minor role. This suggests that molecular motors and intracellular convection are strongly relevant for the pathogenicity of *Acanthamoeba*.

**Friday, June 1st, 2012, 13:00**

**Room PH 127**

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