Cell Imaging Project

Single Molecule Dynamics Inside Living *Caulobacter crescentus*

- Dark field image
  - $t = 0 \text{ s}$
  - $t = 0.1 \text{ s}$
  - $t = 0.2 \text{ s}$
  - $t = 0.3 \text{ s}$
  - $t = 0.4 \text{ s}$

Investigate the protein-dye complex by the fluorescence microscopy

Expression of the target protein

Sequencing & Cloning

- Single-molecule DCDHF-CF3 in the plasma membrane
  - $\sim 2 \mu m$