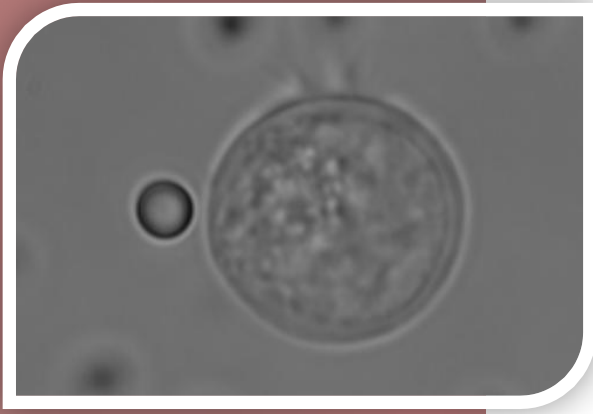


InnoVation
PicoTweezers

FORCE SENSITIVE OPTICAL TWEEZERS





Trapping microscopic objects and precisely measure forces

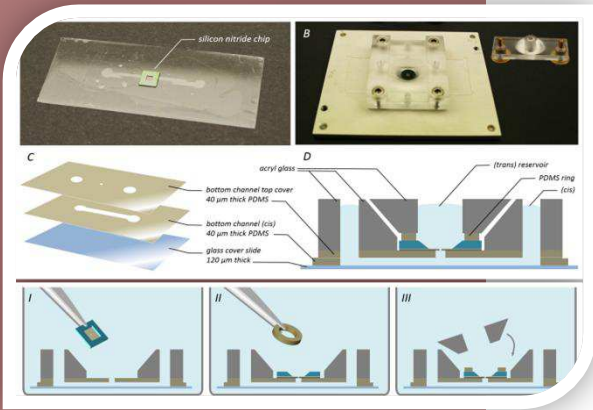
Investigate single molecules and polymers

- Intramolecular Elasticity
- Intermolecular Forces
- Receptor-Ligand Interactions
- Nanopore Translocation
- Protein Folding and Unfolding
- Motor Proteins
- Attractive or Repulsive Surface Interactions



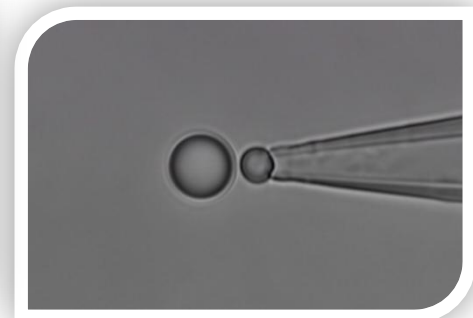
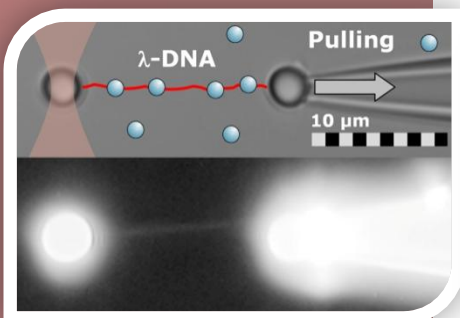
Get new insights on cell biology

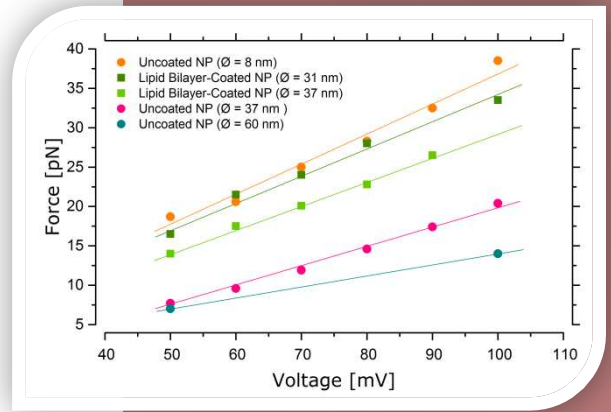
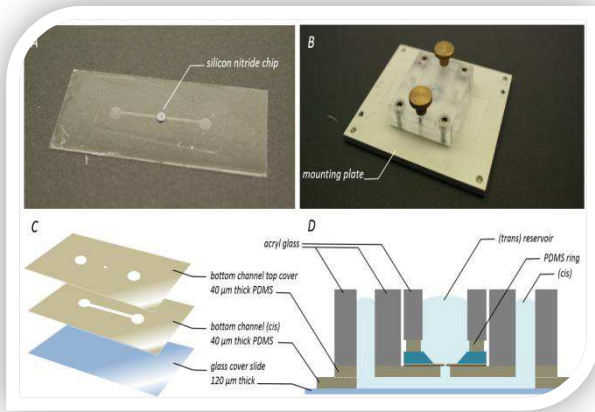
- Interactions on Membranes
- Trans Membrane Processes
- Intra- and Intercellular Forces
- Membrane-Tether



Move your focus to particles and environments

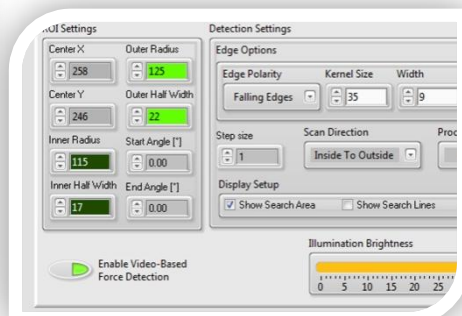
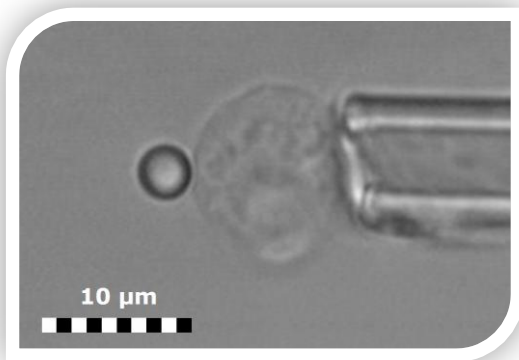
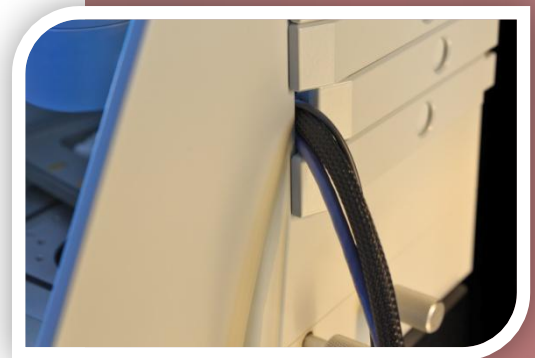
- Brownian Motion
- Rheology
- Hydrogels
- Particle Tracking





PicoTweezers, the German "Raumwunder"

- a compact, ultrastable optical trap
- 3D-force measurements
- fast, easy, and reliable force calibration
- object manipulation with nanometer precision
- amazing space for all kinds of sample carriers, including standard microtiter plates
- customizable LabView™ interface
- standard sample carriers available
- optional microscope add-on
- extendable to fluorescence, Raman spectroscopy, or CLSM
- compatible to all inverse microscopes



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- Ionovation Thermomaster
- Ionovation PicoTweezers

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