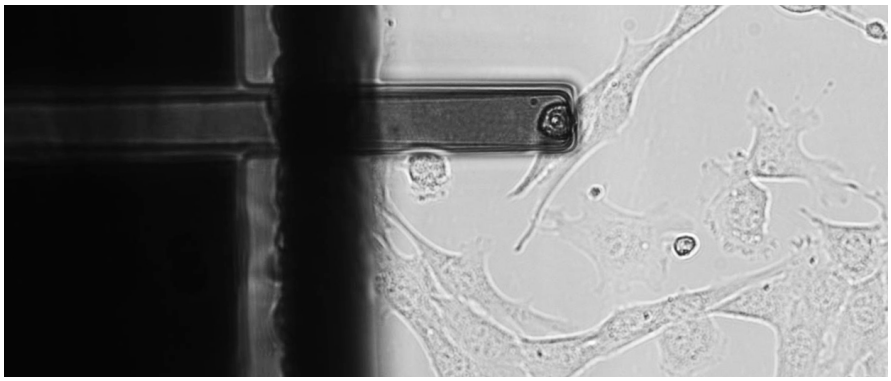
SINGLE CELL ADHESION

Measuring cellular adhesion at the cell level provides valuable insight for many research topics in biology and medicine.

Until now, measuring these interactions was highly complex and time consuming. But with FluidFM technology you can boost your research productivity: Gain unprecedented insights into organ formation, implant surface properties, and pathogen pathways.



GRAB AND MEASURE.
Select any adherent cell and detach it using FluidFM. *Courtesy of Dörig P., ETH Zurich*

30+ CELLS A DAY

10x FASTER THAN STANDARD METHODS

10x HIGHER FORCE RANGE THAN STANDARD METHODS

pN RESOLUTION

FluidFM® GIVES YOU THE EDGE.

Thanks to the unique properties of FluidFM technology you can gather solid cell adhesion data in a short time. Gain access to unparalleled measurement ranges, increasing your experimental flexibility. Reduced preparation time in combination with reusable measurement probes makes FluidFM the perfect tool for all your single cell adhesion studies.

THE PROCEDURE IN BRIEF.

The target cell is selected by the user and then reversibly attached to the FluidFM probe by applying an underpressure.
It is subsequently detached from the surface by retracting the measurement probe, and the resulting adhesion forces are precisely recorded with pN resolution.
All force curves are automatically stored and organized for analysis using our advanced data analysis software or custom third party tools.

SELECTED PUBLICATIONS

– 2016. J.S. McGrath, J. Quist, J.R.T. Seddon, S.C.S. Lai, S.G. Lemay & H.L. Bridle. **Deformability Assessment of Waterborne Protozoa Using a Microfluidic-Enabled Force Microscopy Probe.** PloS one, 11(3), e0150438. doi:10.1371/journal.pone.0150438

– 2014. E. Potthoff, D. Franco, V. D'Alessandro, C. Starck, V. Falk, T. Zambelli, J. A. Vorholt, D. Poulikakos & A. Ferrari. **Toward a rational design of surface textures promoting endothelialization.** *Nano Letters, 14*(2), 1069–1079. doi:10.1021/nl4047398

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