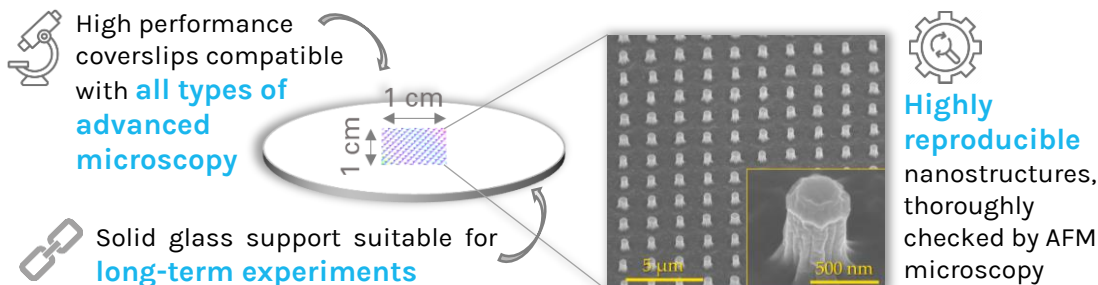


FakirSlide

Explore the effects of topological cues on cell membranes

FakirSlides are nanostructured glass coverslips designed for inducing **controlled and repeated deformations** on cells or planar model membranes.

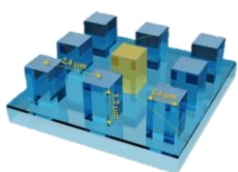


- ✓ Live imaging
- ✓ Immunostaining
- ✓ Migration assays
- ✓ Supported lipid bilayers

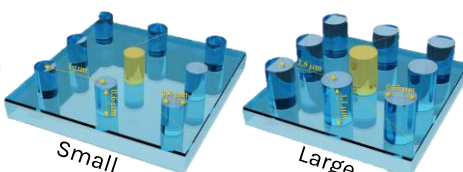
Our shape catalog

Unlock novel insights ! Based on a newly-developed flexible nanostructuration technique, FakirSlide offers a wide panel of structures of various sizes and shapes to expand your research in mecanobiology:

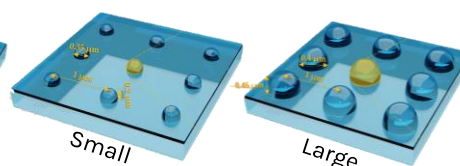
Square pillars



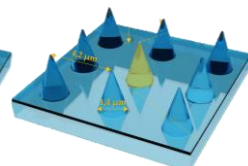
Round pillars



Nano-domes

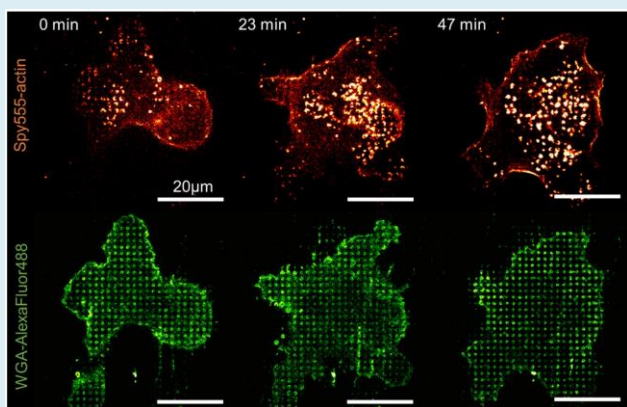


Nano-cones



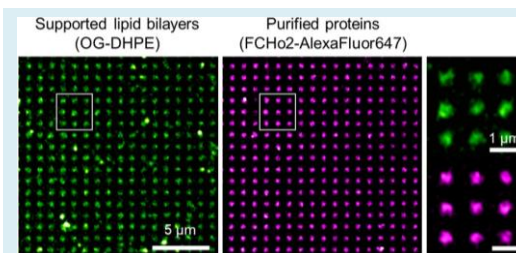
Results

➡ More shapes to come: hexagonal pillars, nano-ridges, nano-cones... **Stay tuned !**



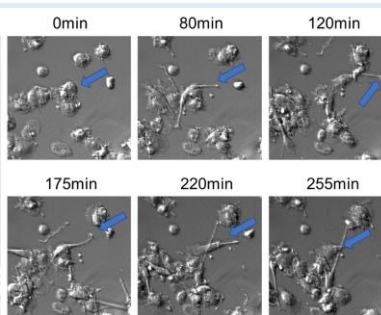
Live imaging of plasma membrane and actin dynamics of cells seeded on FakirSlide large round pillars

Cytoskeleton (spy555-actin, orange) and plasma membrane dynamics (WGA-AlexaFluor488, green) of seeded moDC imaged on a spinning disk microscope (Nikon Ti Inscoper CSU-X1, objective 100X Plan Apo lambda4.145 NA DT 0.13mm oil). Raissa Rathar - IRIM Montpellier, 2022



Organization of purified recombinant F-BAR protein FCHo2 on FakirSlide small nano-domes coated with isolated membranes

Airsyan sub-diffraction microscopy images of FakirSlide surface functionalized with supported-lipid bilayers (doped with 0.2% of OG-DHPE, green) and the recombinant protein FCHo2 labeled with AF647 (1 μM, magenta). Confocal/airyscan Zeiss LSM880 microscope (objective 63X Plan Apo Oil 1.4NA) [1]



FakirSlide round pillars support membrane projections during dendritic cell migration

moDCs were seeded on large round pillars and imaged on an inverted Olympus IX83 video-microscope (transmitted light, objective 40 X objective 40x LUCPLFN 0.6NA RC2) 0.6 NA. Blue arrows point to membrane projections propelled during the migration of moDC cells. Raissa Rathar - IRIM Montpellier, 2021

[1] El Alaoui F. et al, Structure and dynamics of FCHo2 docking on membranes. eLife 2022;11:e73156 doi: 10.7554/eLife.73156