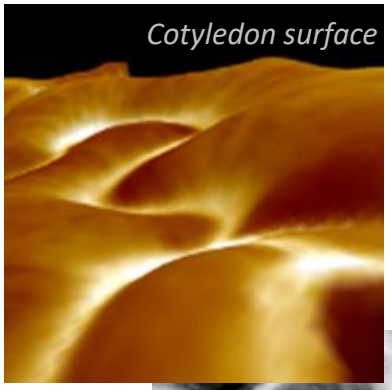
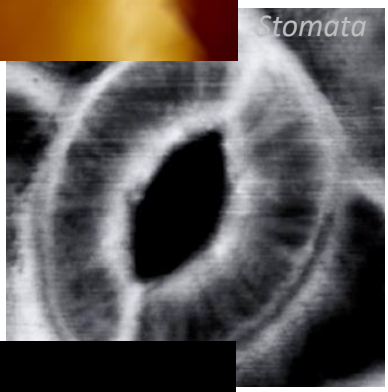
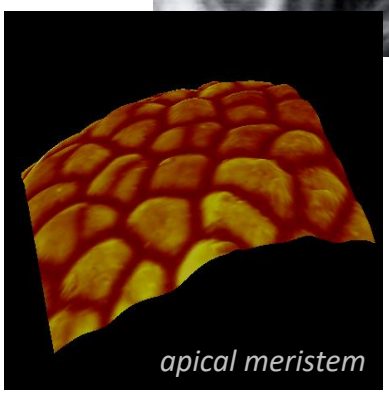
Looking for nano-mechanical analysis of your plant materials ?

MecaStem

Our solution for plant research



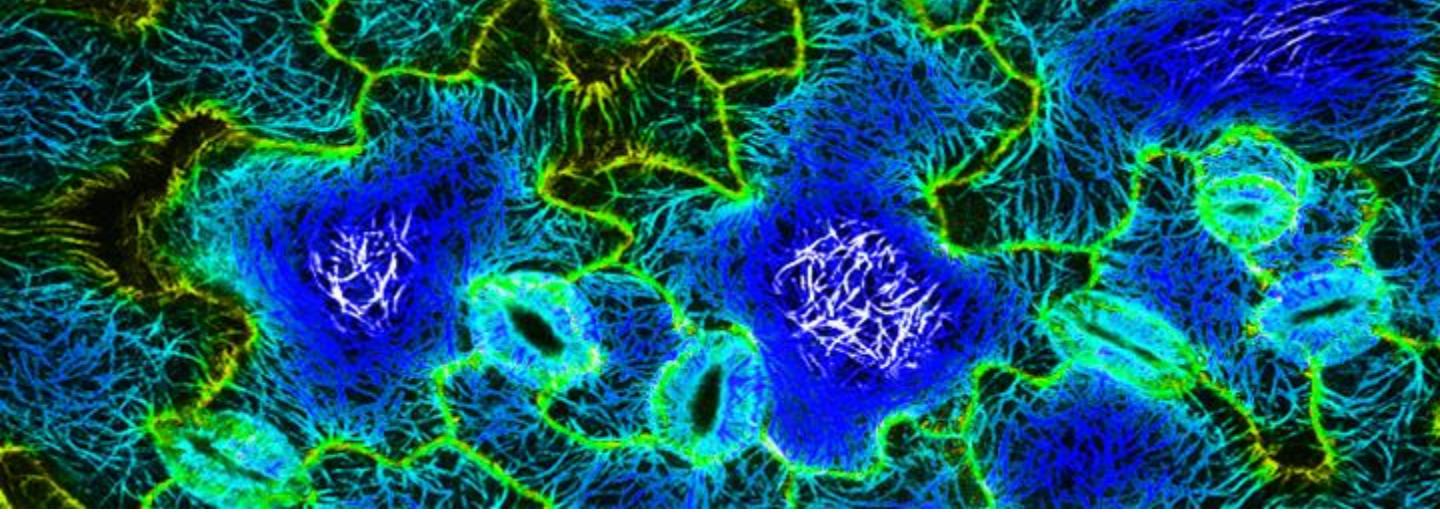




Surface morphology

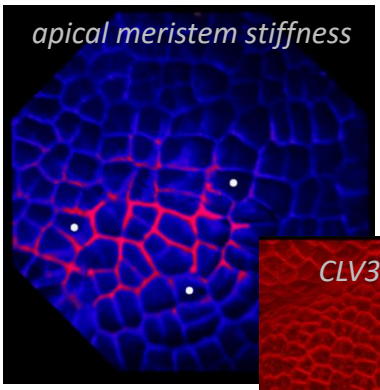
BioMeca will provide access to Atomic Force Microscopy (AFM) technology for the nanostructural characterization of your materials. We routinely perform high resolution surface imaging. It is the best solution for the measurement of surface roughness parameters.

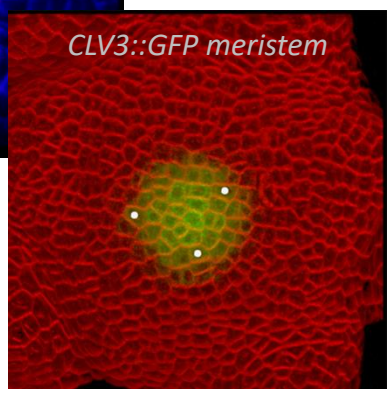
www.bio-meca.com
contact@bio-meca.com

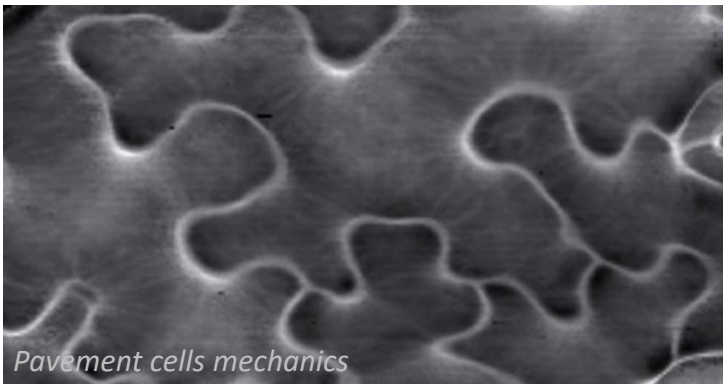


Nanomechanics of cell wall

Atomic force microscopy is a powerful technology that allows the investigation and the mapping of surface mechanical parameters of your samples (stiffness, adhesion, deformation , visco-elasticity…).







Turgor pressure measurement

En combinant le pouvoir résolutif de l'AFM à sa fonction de nano-indentation. Nous vous donnons la possibilité unique de caractériser la pression interne à l'échelle de la cellule unique.

Correlative studies

Notre AFM est couplé avec un macroscope à fluorescence. Nous avons également la possibilité de coupler les images AFM (topographie, mechanical mapping..) à de l'imagerie confocale.

All our solutions can be adapted to various models (cells, sections, seeds, living plants …) and under different conditions (air, water, light control …)