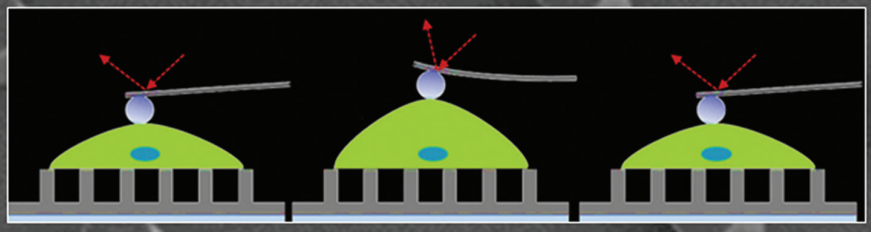
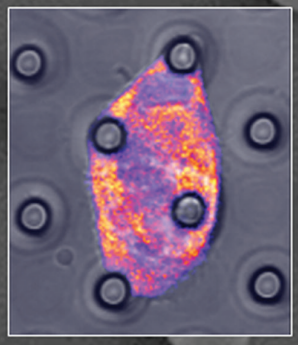
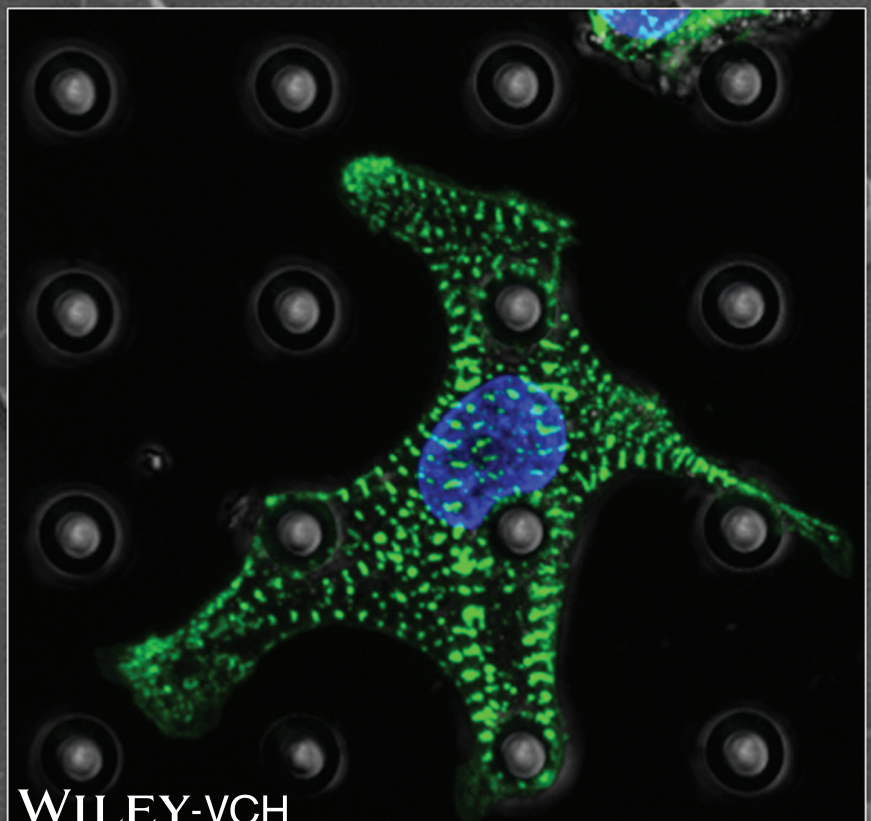
ADVANCED HEALTHCARE MATERIALS

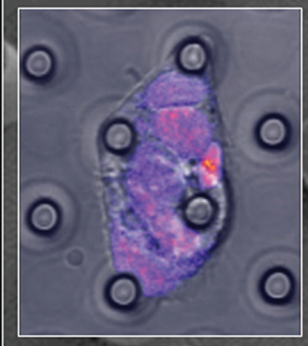
STEM CELL MECHANOBIOLOGY

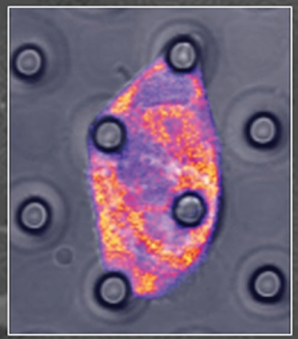
On page 335, M. Münzenberg, M. Delcea, and co-workers report on the use of 3D micropillars generated by photolithography as a platform to probe by atomic force microscopy the mechanodynamics of human induced pluripotent stem cell-derived cardiomyocytes. The results indicate that 3D micropillars guide subcellular cytoskeletal modifications of cardiomyocytes and lead to biochemical changes altering beating rate, stiffness, and calcium dynamics of the cells.











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