

Supplementary Material

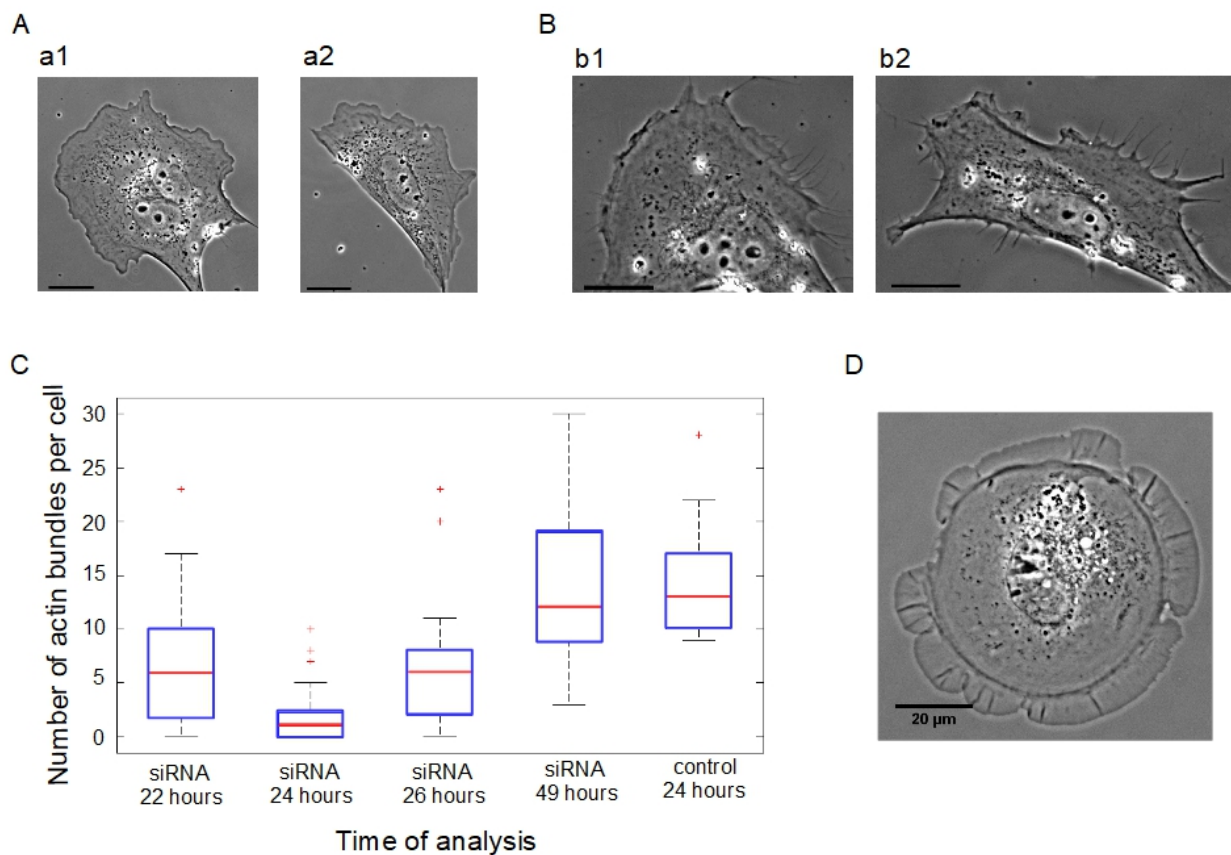


Figure S1. A: examples of random-shaped fibroblasts 24 hours after transfection with siRNA to knockdown myosin X. B: examples of randomly shaped control cells at the same time point. Scale bars: 20 μ m. C: boxplot visualizes the number of actin bundles (here: actin bundles are a generic term including retraction fibres and filopodia) in myosin X knockdown cells 22, 24, 26 and 49 hours after transfecting them with siRNA as well as control cells after 24 hours. D: example of a disk-shaped fibroblast 24 hours after transfection with siRNA. There are no actin bundles in the lamellipodium after a knockdown of myosin X.

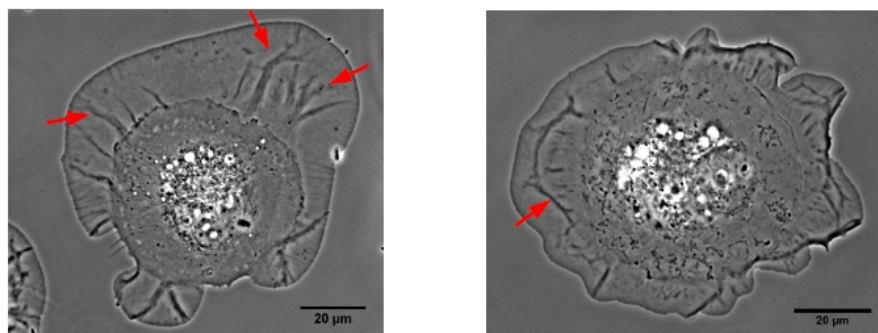


Figure S2. Two examples of fibroblasts on adhesion patterns 30 minutes after adding 25 μ M Blebbistatin to inhibit myosin II. One can observe excessively large grown lamellipodia. Red arrows indicate actin folds in cells treated with Blebbistatin.