

Fig. S1. Schematic representation of a single traction force microscopy experimental dataset and key analytical parameters. Traction forces (blue line) in pre- and post-stimulation (red arrow) phases are depicted. Increases in force were always measured relative to the mean pre-stimulation traction force [green line; mean(f_{pre})]. Maximal increases in force due to fluctuations as cells turn over adhesions and migrate in the pre-stimulation phase were characterized by the maximum increase in force during pre-stimulation [max⁺(Δf_{pre})]. Similarly, maximal increases in force due to cellular contraction post-stimulation were characterized by the maximum increase in force during post-stimulation [max⁺(Δf_{post})].