Supplementary Information to

Mechanical properties of murine hippocampal subregions investigated by atomic force microscopy and in vivo magnetic resonance elastography

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Supplementary Figure 1

Supplementary Figure 1 Force indentation curves. (A) AFM acquires force-distance curves (blue curve), which are then shifted such that the contact point is at the origin. A simple Hertz model according to equation (1), main text, is fitted (green curve) to each measurement curve to recover Young’s modulus, which basically determines the slope of the measurement curve. (B) A series of approximately 80 measurement curves showing smooth curvatures and indicating the validity of the Hertz model with different Young’s moduli (slopes).
Supplementary Figure 2

Supplementary Figure 2 Fluorescent image overlayed with Young’s modulus maps from atomic force microscopy (AFM). Green color indicates nestin expressing cells as a marker of neurogenic activity. The color scale of the Young’s modulus heat maps runs from 0 to 250 Pa as indicated in the images.