

Supporting Information for:

Normal and shear interactions between hyaluronan-
aggrecan complexes mimicking possible boundary
lubricants in articular cartilage in synovial joints

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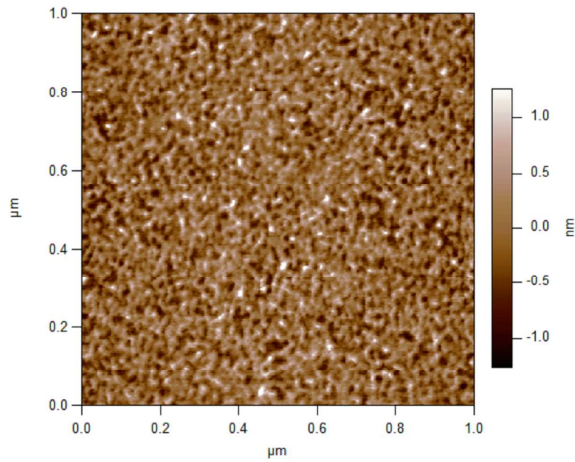


Figure 1. AFM image of a mica surface covered with avidin. A freshly cleaved mica sheet was soaked in 0.01 mg/ml avidin aqueous solution for 30 minutes, rinsed in pure water for 1-2 minutes and left drying in the laminar hood. Tapping mode in air, MFP3D Asylum Research instrument.

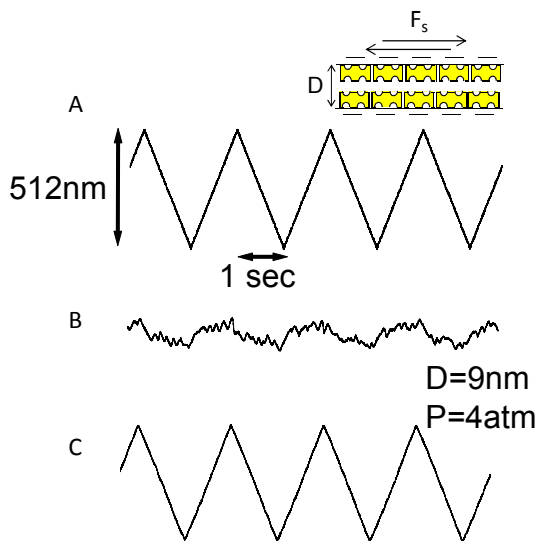


Figure 2. Shear Force vs. time traces between two avidin-bearing mica surfaces. Trace A: back and forth motion of the upper lens on top of the lower one, traces B-C shear forces recorded by the bending of the lateral springs at different surface separations and pressures.