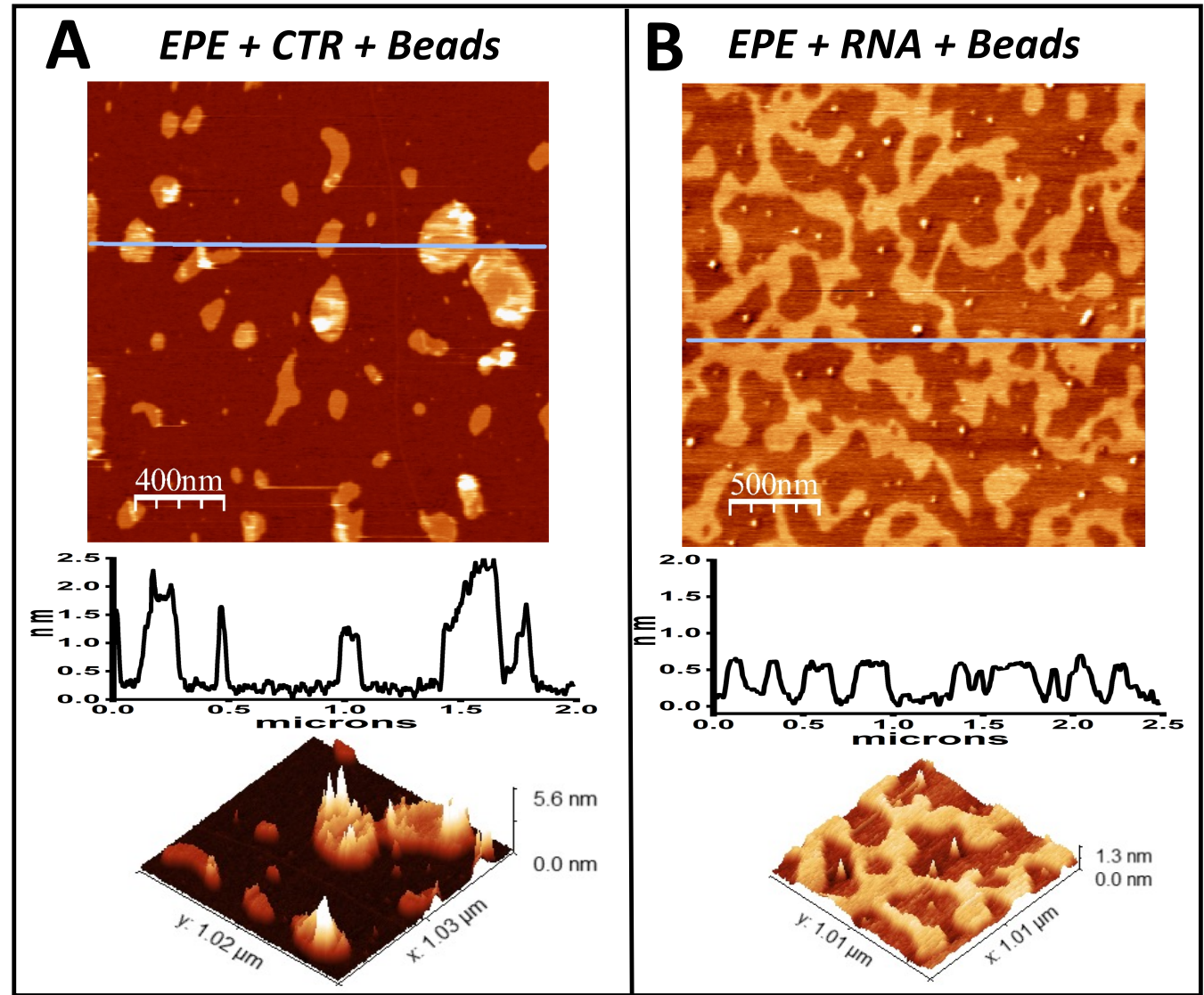


Supplementary Material

Figure S1. (A) *E. coli* lipid bilayer incubated in the presence of CTR and streptavidin colloidal gold beads. The height profile corresponds to the line shown on the upper image. The lower panel shows a three dimensional representation of a small region. When the membrane is incubated only with Hfq-CTR, colloidal beads don't accumulate on the surface and only the cardiolipin enriched domains are observed; (B) *E. coli* lipid bilayer incubated in the presence of RNA and streptavidin colloidal gold bead. When the membrane is not incubated with Hfq-CTR prior to the addition of RNA, colloidal particles don't accumulate on the surface and only the cardiolipin enriched domains are observed.



Supplementary Material

E. coli lipids EPE + CTR

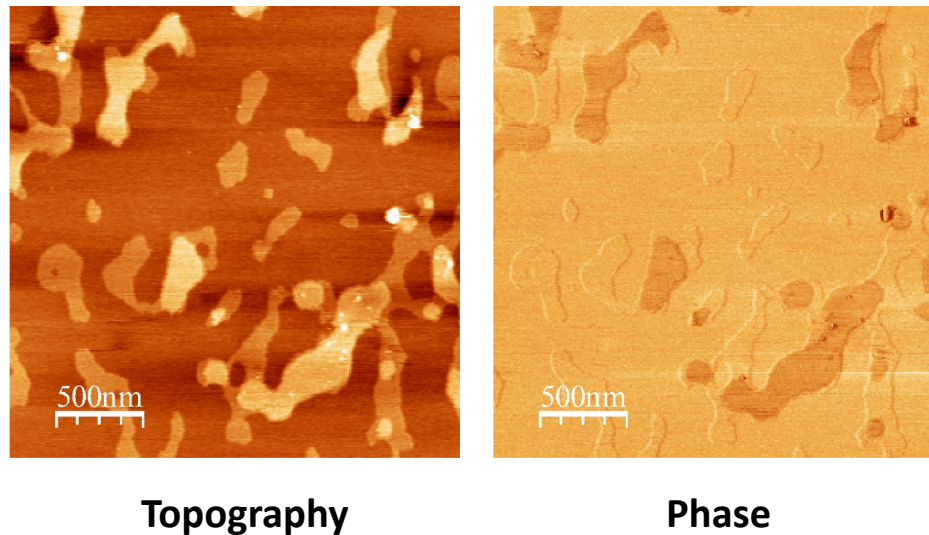


Figure S2. Topographic and phase image of the lipid bilayer incubated with the Hfq-CTR peptide. The regions with peptide appear darker in the phase image, indicating that their mechanical properties are different. The peptide regions appear stiffer than the pure lipid regions.