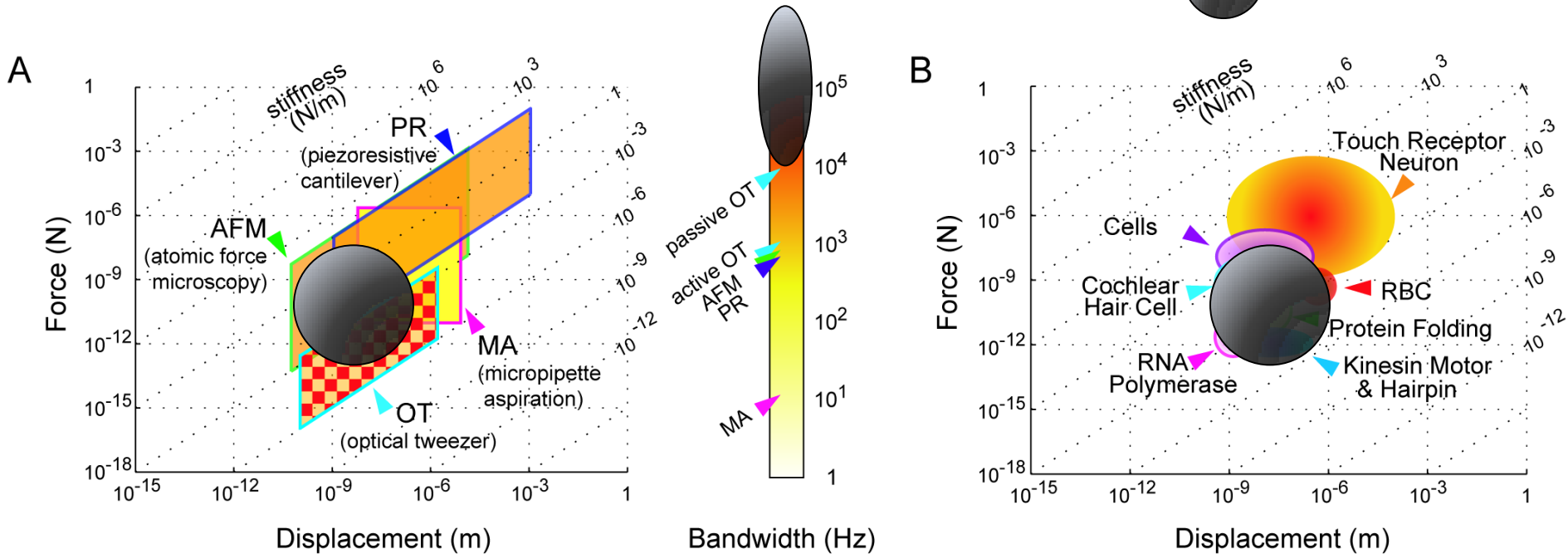


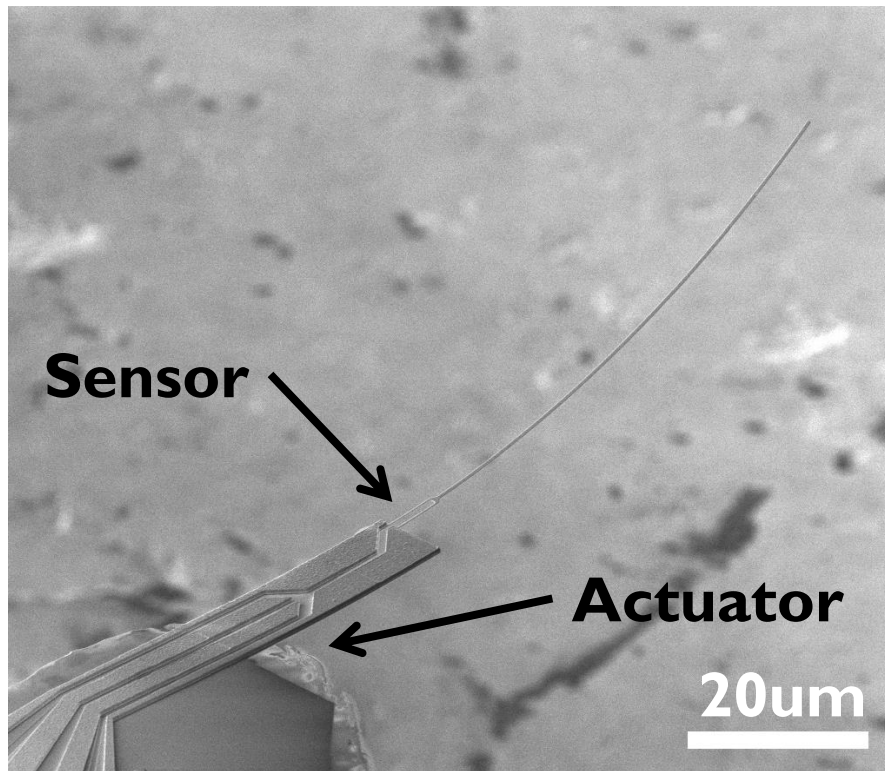
Fast Force Probes for Mechanobiology



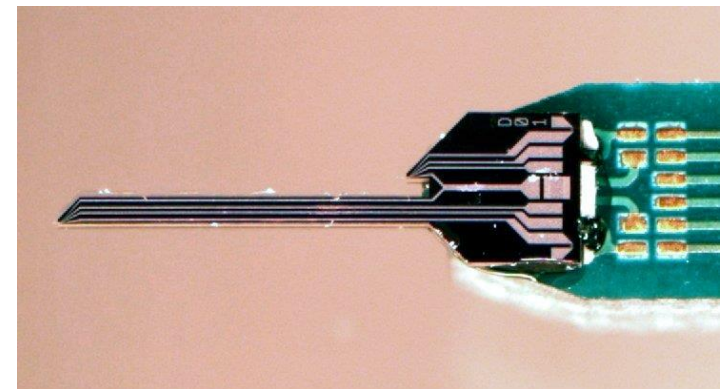
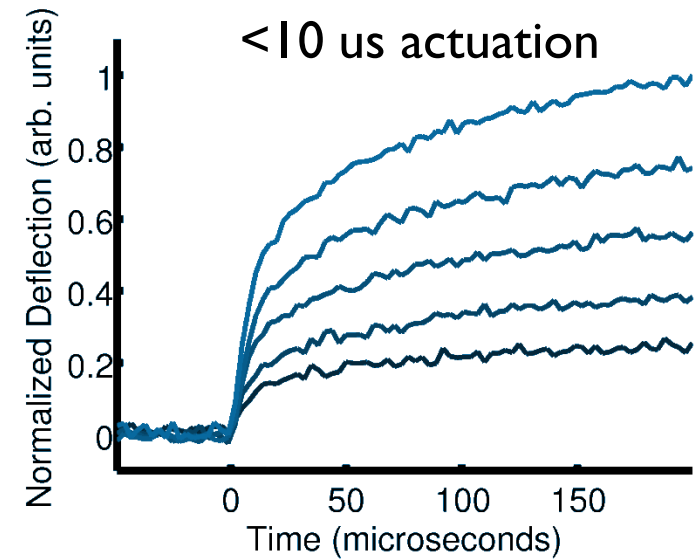
We have developed a MEMS force probe for the study of 1-1000 pN forces in biological systems at frequencies up to 200 kHz. High frequency forces are important (e.g. hearing, touch) but can't be studied with existing tools.

Adapted from Park et al, PNAS 2007

Fast Force Probes for Mechanobiology



Compatible with upright
and inverted microscopes



Compatible with upright
and inverted microscopes

Fast Force Probes for Mechanobiology

Damage to specialized neurons (hair cells) in the inner ear is a leading cause of hearing loss. We are using the fast force probes to investigate mammalian hearing at frequencies 10x greater than have been possible to date.

