Fluorescence

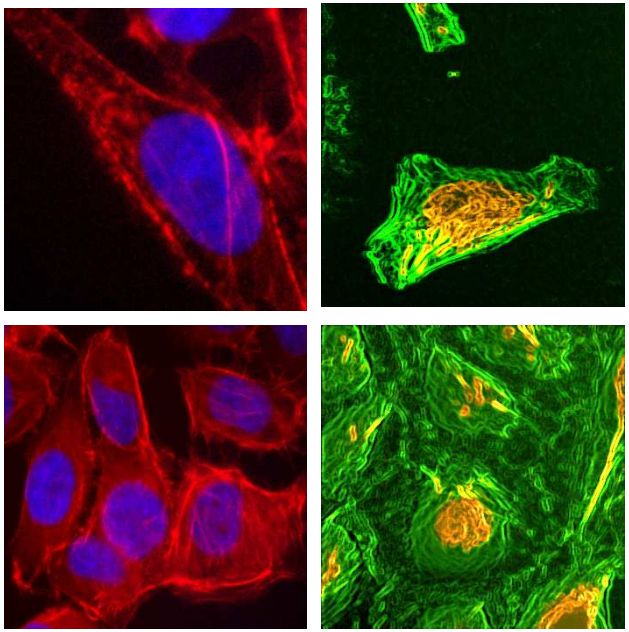
Nanoimaging (AFM)

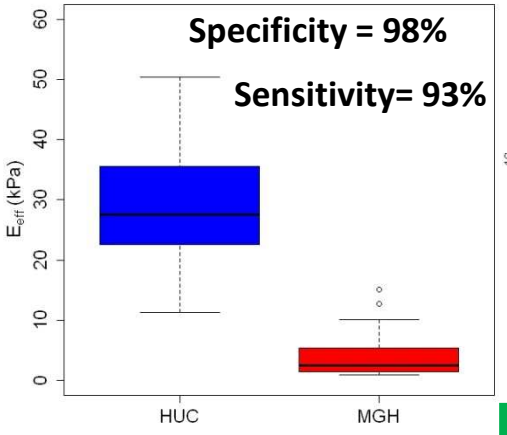
Nanocytomechanics (AFM)

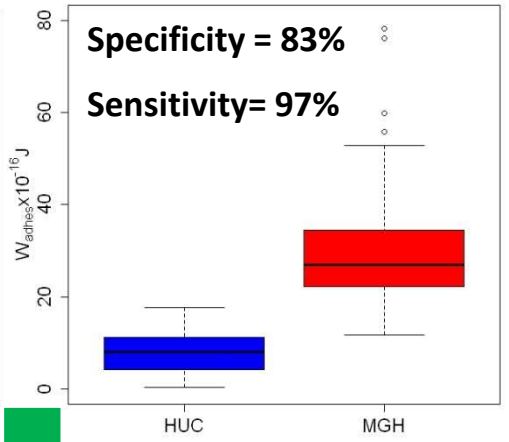
Elasticity of cell wall and Adhesion energy

SV-HUC-1
Normal cells

MGH-U1
Cancer cells







Nanomechanics (AFM) + Spectroscopy (Raman) ⇒ discriminates cancer from normal cells with high specificity and sensitivity for early diagnosis of cancer

Modulated Raman Spectroscopy