



Figure 11.5. Laser tweezers Raman spectroscopy. (A) Cartoon of a single, optically trapped monocyte immobilized by a tightly focused laser beam. (B) Cartoon of the process of Raman scattering. A fraction of the incoming photons (left) can scatter off of molecular bonds and change their energy. (C) Raman spectrum of an optically trapped TGRL. Major Raman peaks are labeled with their respective molecular bonds. The inset shows a back-reflected light image of an individual optically trapped VLDL (~50 nm in diameter).