



Fig. SI: FT-IR spectra of HEK cell sample over (A) 1150 - 1000 cm⁻¹ regions, extracted from region indicated by white bars in Fig. 5. (B) The corresponding second derivative spectra, which revealed in the peak at 1085 cm⁻¹ assignable to phosphate backbone of DNA. (C) An image constructed with the intensity at 1085 cm⁻¹ of the second derivative spectra, indicating the presence of cellular nucleus in the middle of the image.