

# Supporting Information

## Carbon Nanocoil Based Flexible Tip for Live Cell Study of Mechanotransduction and Electro-physiological Characteristics

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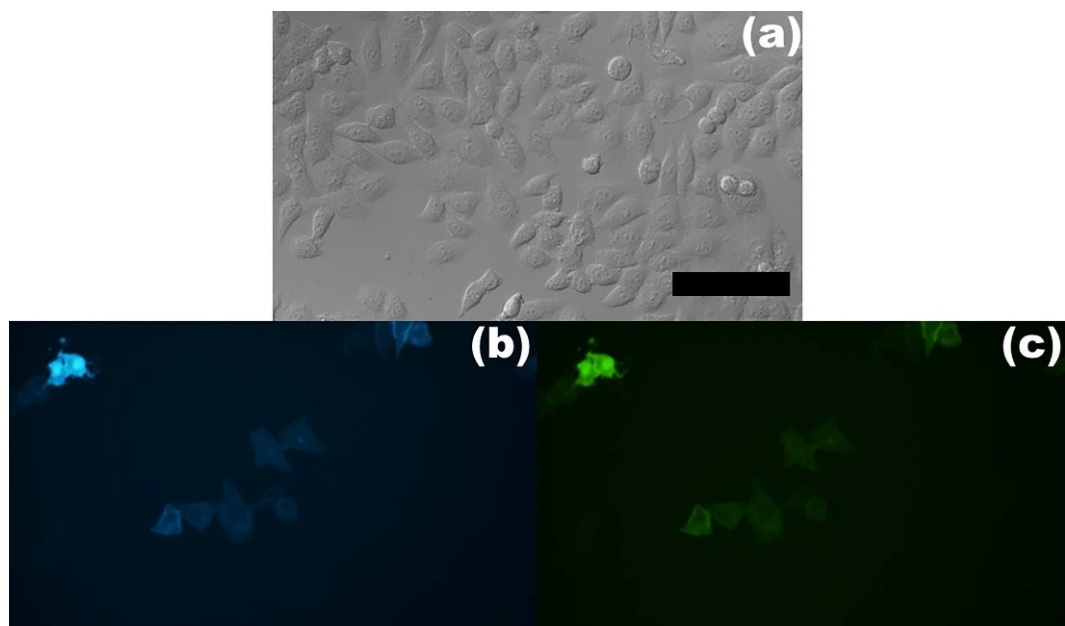


Figure S1. (a) The optical images of osteosarcoma cells. The fluorescence images of (b) ECFP and (c) EYFP. The scale bar is 100  $\mu\text{m}$ . The wavelengths of the excited laser, donor emission light and acceptor emission light are 440 nm, 480 nm and 535 nm, respectively.

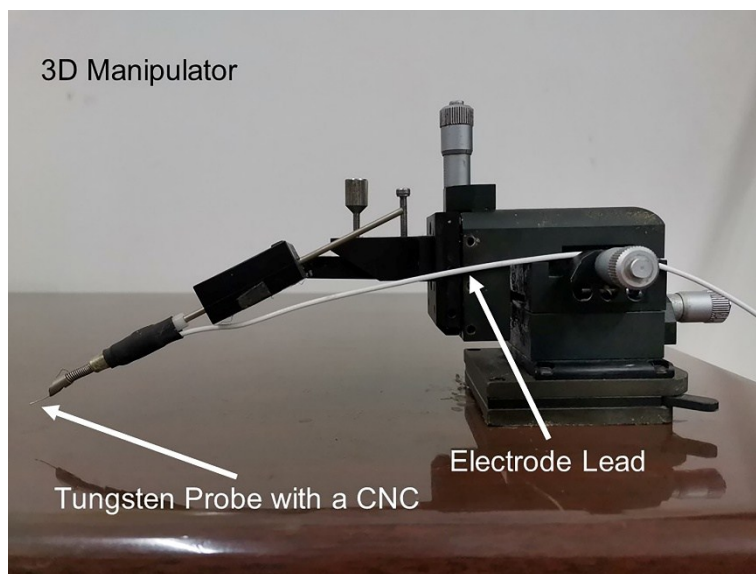


Figure S2. 3D micro manipulator with CNC-tungsten tip.

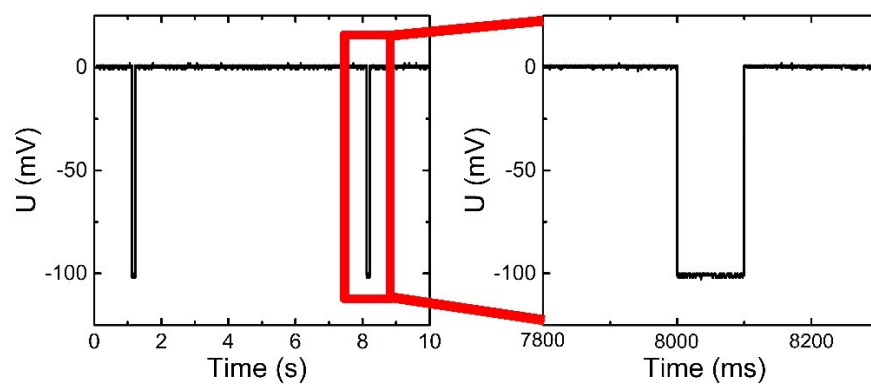


Figure S3. The electrical signal on carbon nanocoil.



Fig. S4 The SEM image of a single CNC.

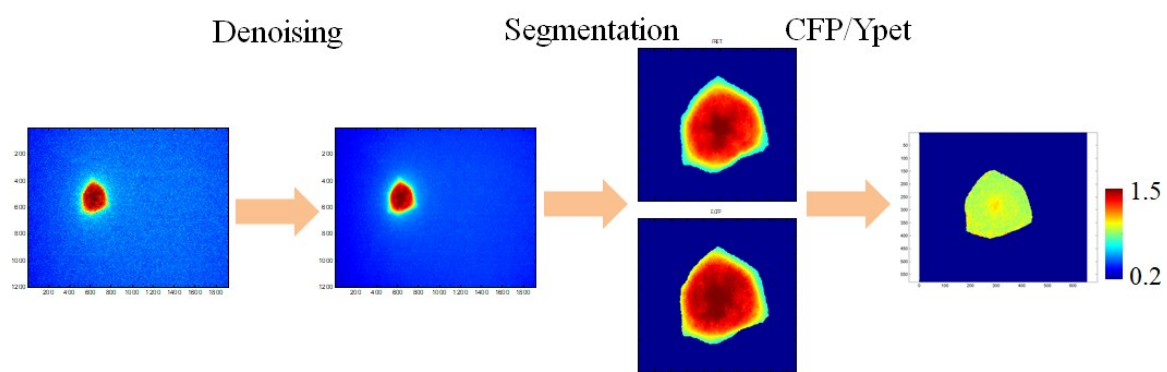


Figure S5. The fluorescence imaging procedure.