

Supplementary Materials: Composite Hydrogels with Engineered Microdomains for Optical Glucose Sensing under Low Oxygen Conditions

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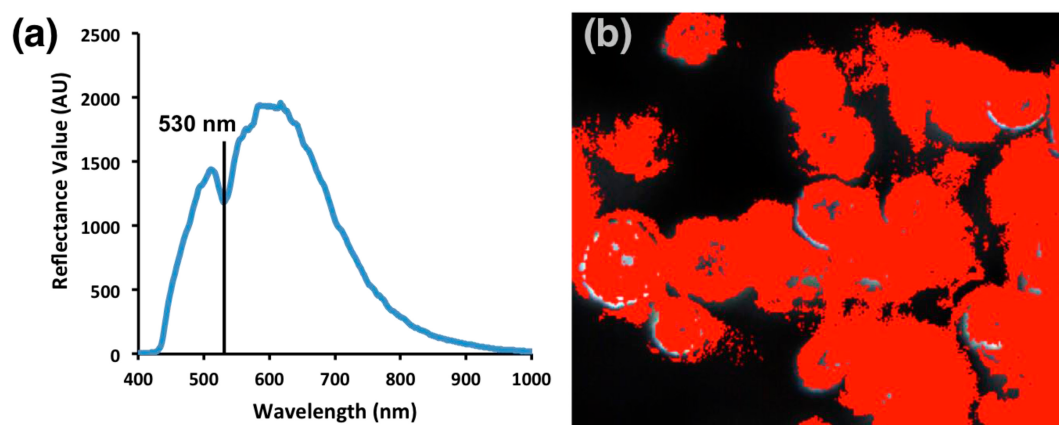


Figure S1: Reflectance spectrum and hyperspectral mapping of PdTCPP within AnA hydrogel. (a) Reflectance spectrum of encapsulated PdTCPP embedded within the AnA hydrogel. The decrease in the reflectance value, indicated by a black line at 530 nm, correlates to the excitation wavelength of PdTCPP. (b) Hyperspectral map (generated from reflectance spectrum) of a section of the AnA hydrogel with false red color identifying encapsulated PdTCPP at multiple focal planes. Absence of color outside of particles confirms dye is restricted within the nanofilm-coated alginate microparticles and is not present in the matrix. Scale bar = 10 μm .