

Core/shell quantum dots encapsulated in biocompatible oil-core nanocarriers as two-photon fluorescent markers for bioimaging

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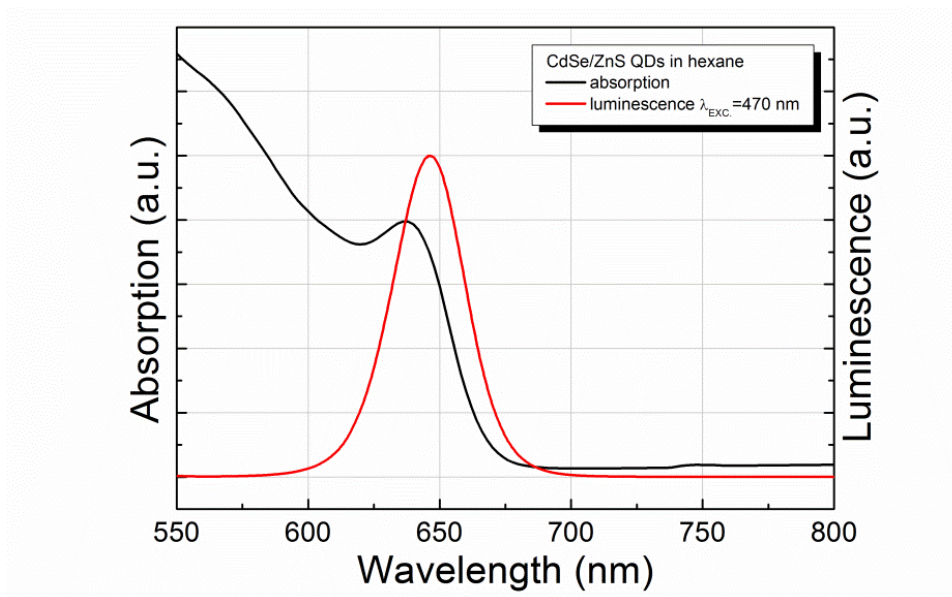


Figure S1. Room temperature absorption and luminescence spectra of CdSe/ZnS QDs in hexane.

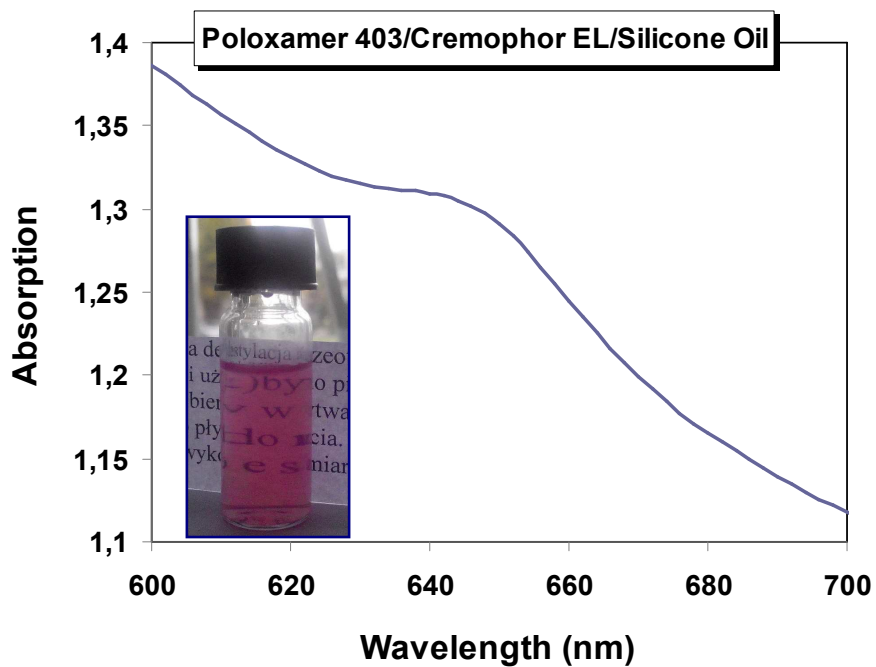


Figure S2. Room temperature absorption of CdSe/ZnS QDs encapsulated in oil core nanocapsules and a picture of the loaded nanocarriers aqueous dispersion demonstrates optical transparency.

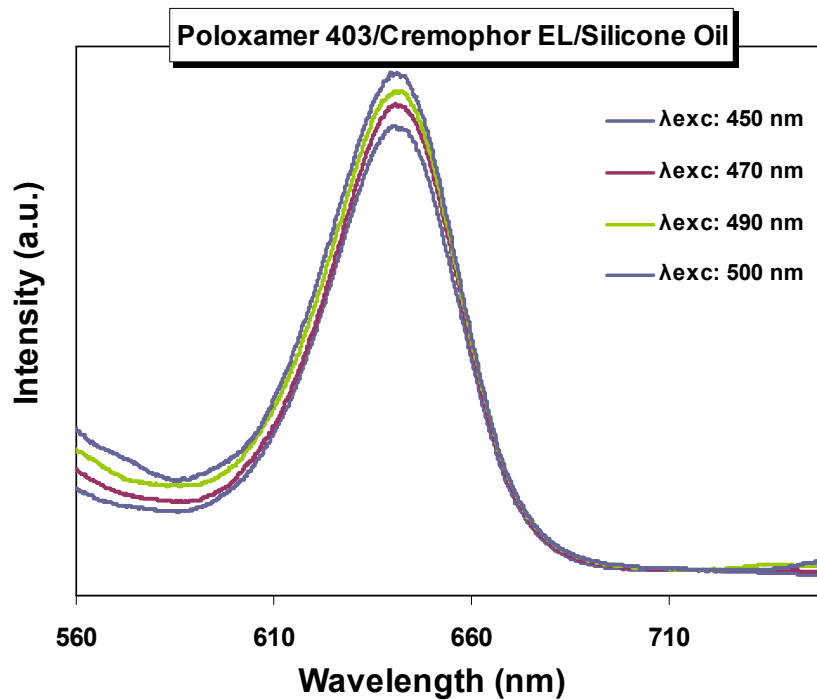


Figure S3. Fluorescence spectra of CdSe/ZnS-loaded nanocarriers Poloxamer 403/Cremophor EL/silicone oil (system 1b) measured under various excitation wavelengths: 450, 470, 490 and 500 nm.

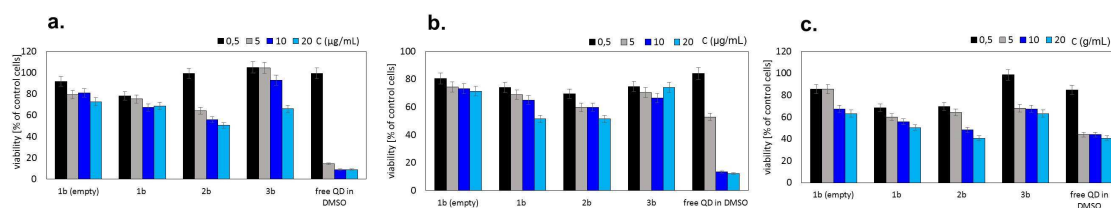
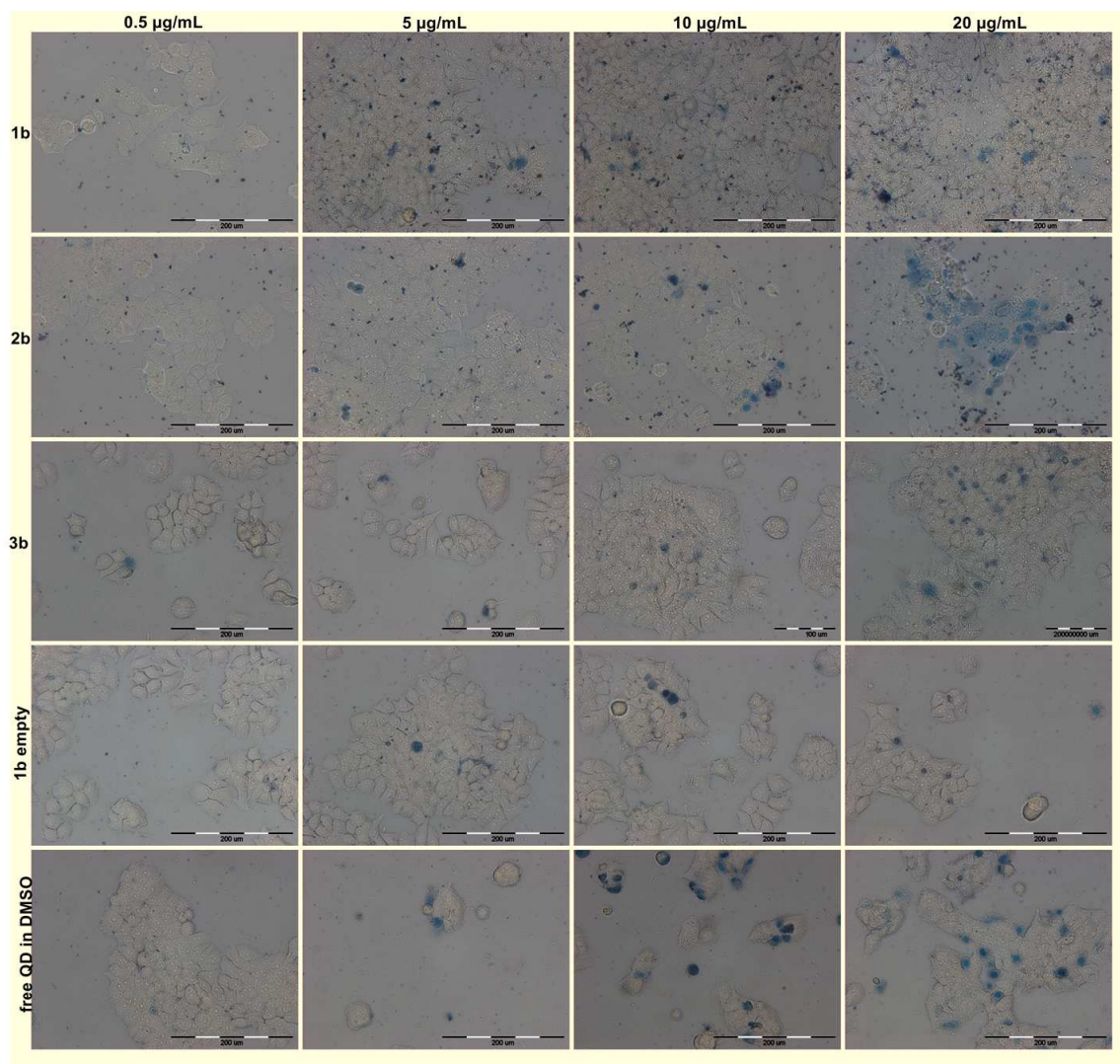


Figure S4. MTT assay performed after 48 h incubation with nanocarriers with QDs in (a) A549; (b) MCF-7/WT and (c) HUVEC cells (for the systems 1b-3d descriptions see Table 1).

a.



b.

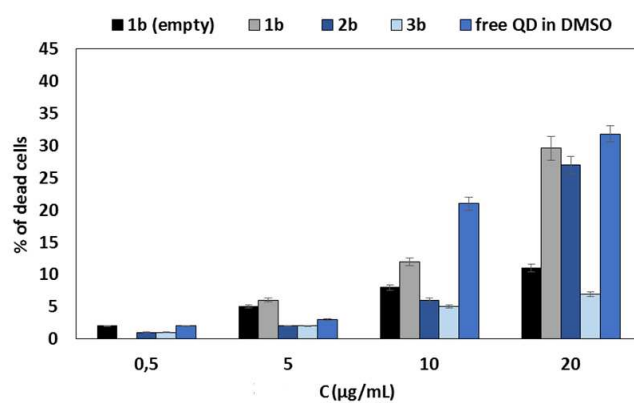


Figure S5. Upright microscopical visualization of trypan blue staining in MCF-7/WT cells after 24h incubation with nanocarriers with QDs (a) and trypan blue staining presented as percentage of dead cells in MCF-7/WT cell line after 24h incubation with nanocarriers with QDs (b) (see descriptions for the systems 1b-3b in Table 1).