

Supplementary

Pulsed Laser Assisted High-Throughput Intracellular Delivery in Hanging Drop Based Three Dimensional Cancer Spheroids

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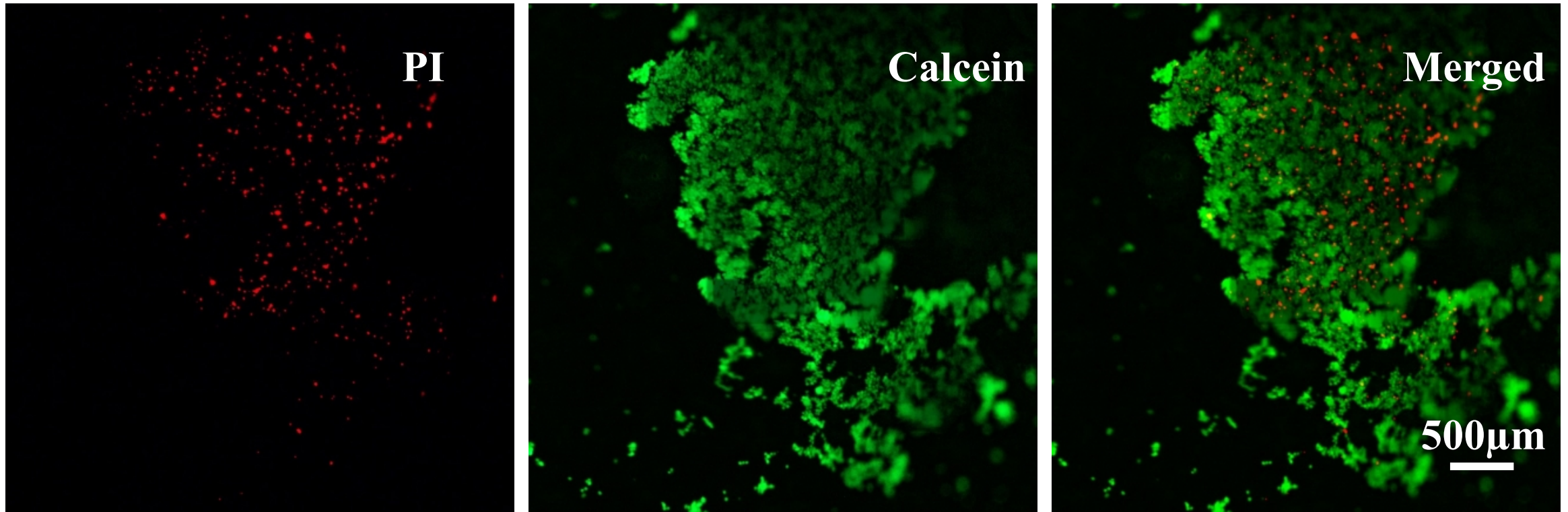
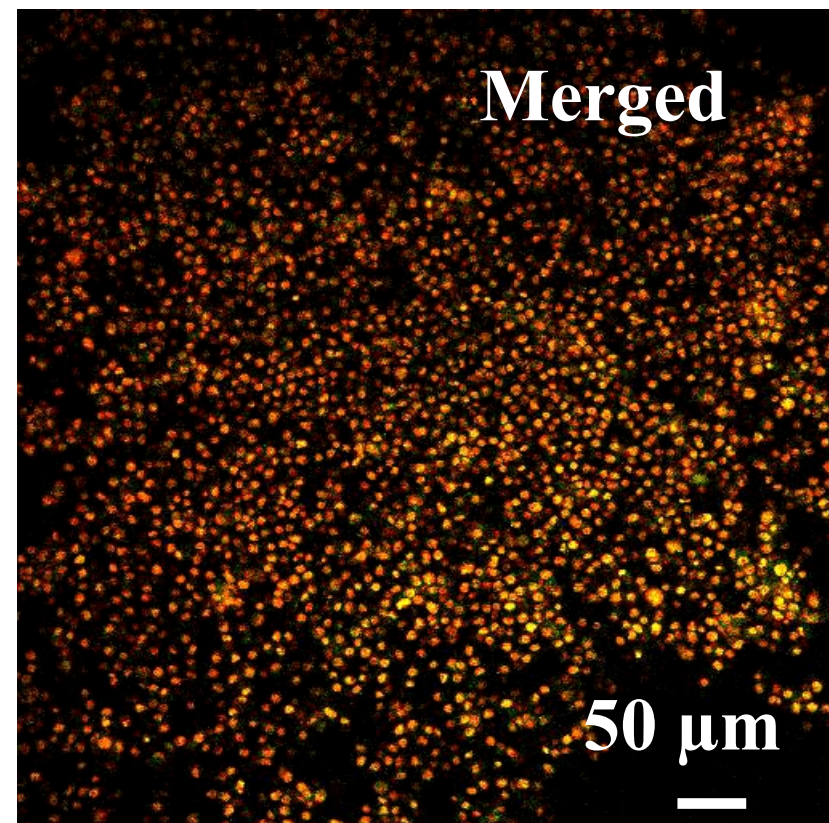
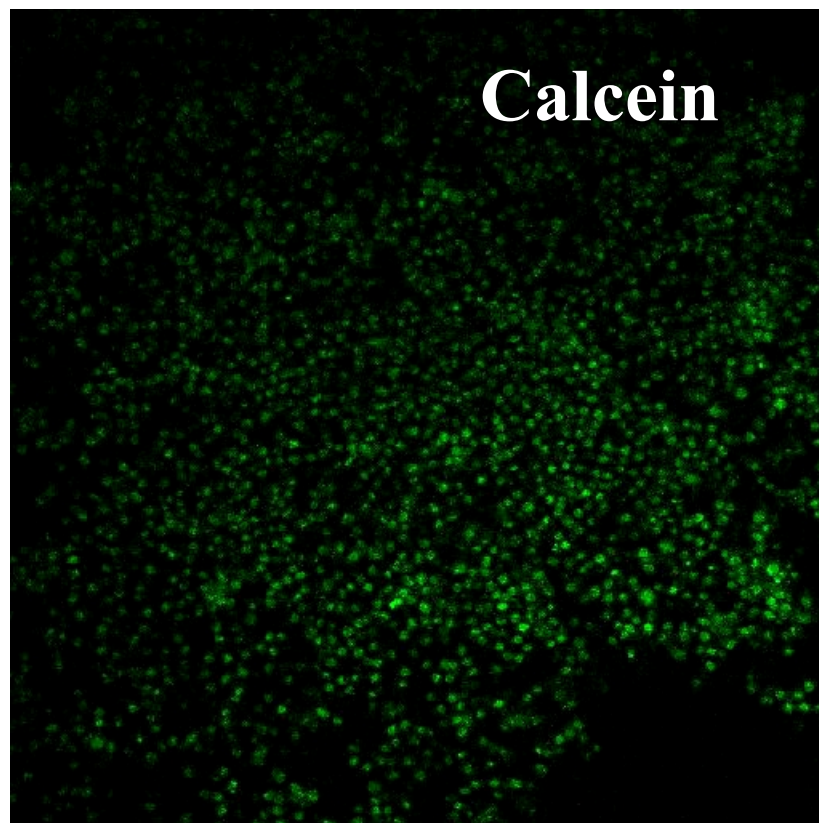
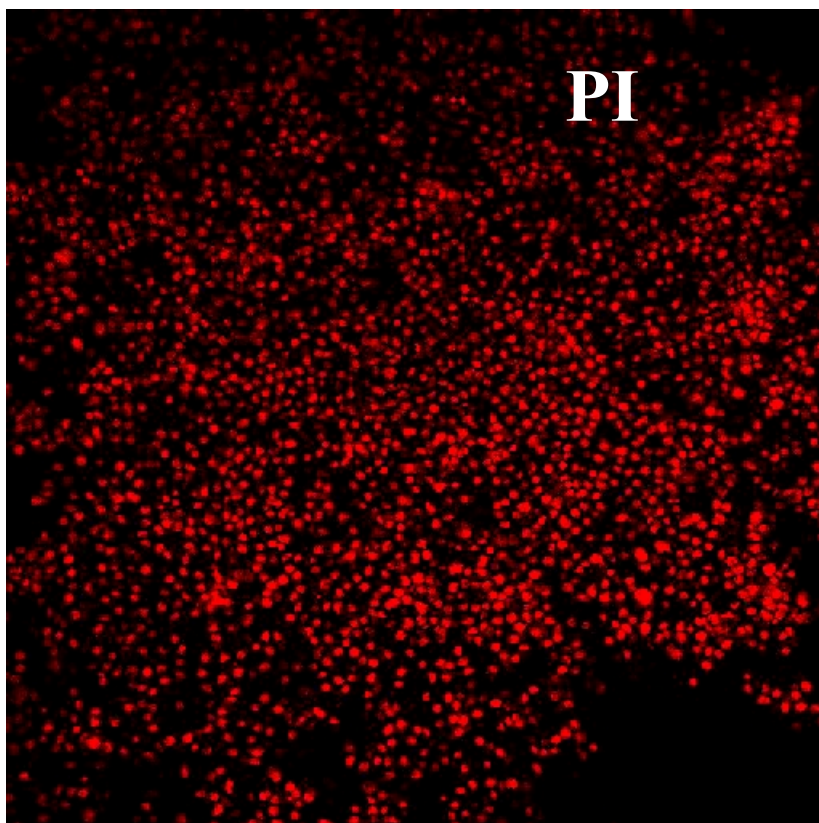
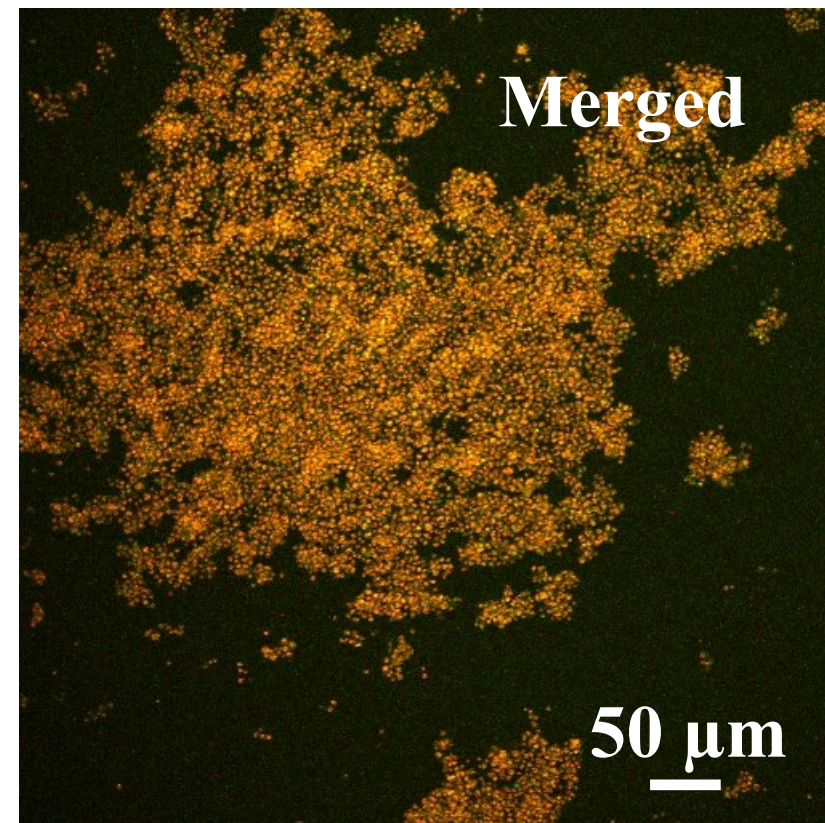
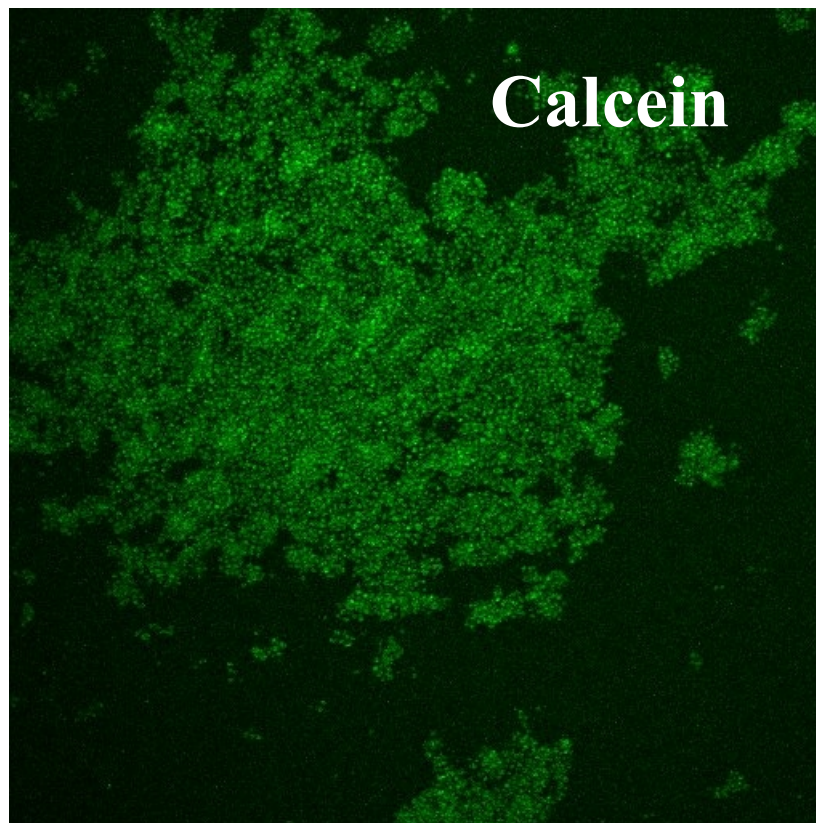
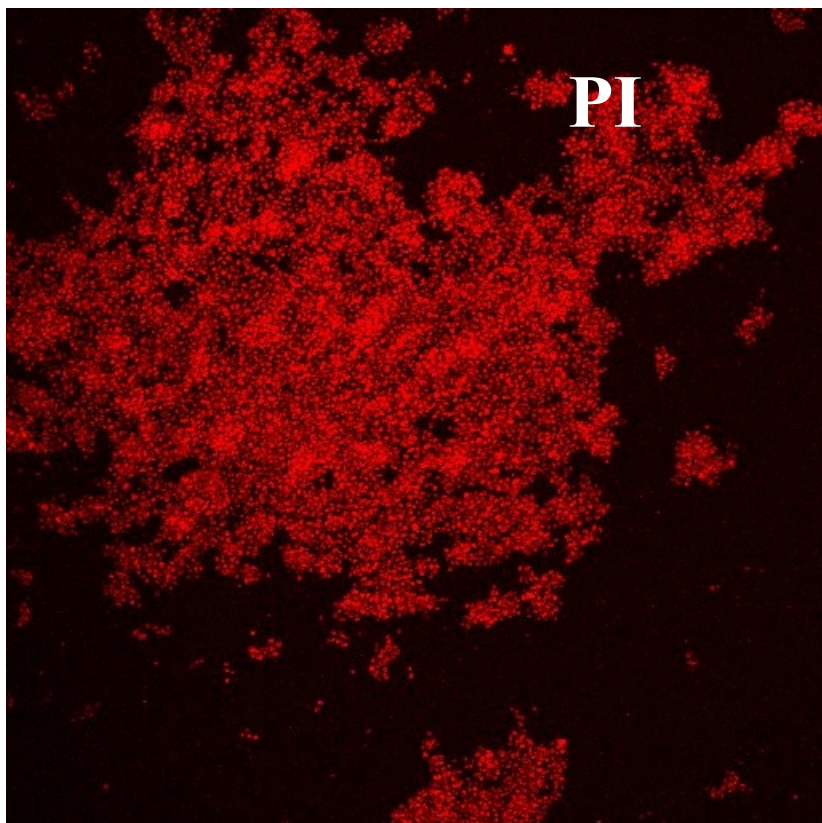


Figure S1. Optical images showing the fluorescently labelled SiHa cells with PI dye (red) and Calcein (green) dye after incubation with gold nanoparticles. PI dye stains dead cells while calcein enters in live cells. (without laser exposure) (Magnification=10X)

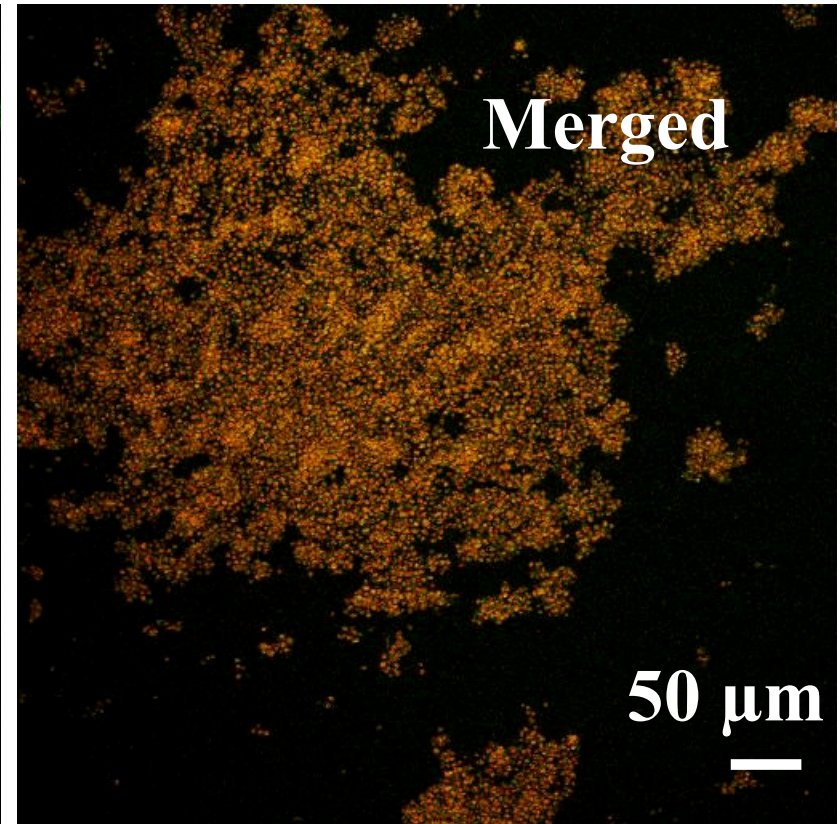
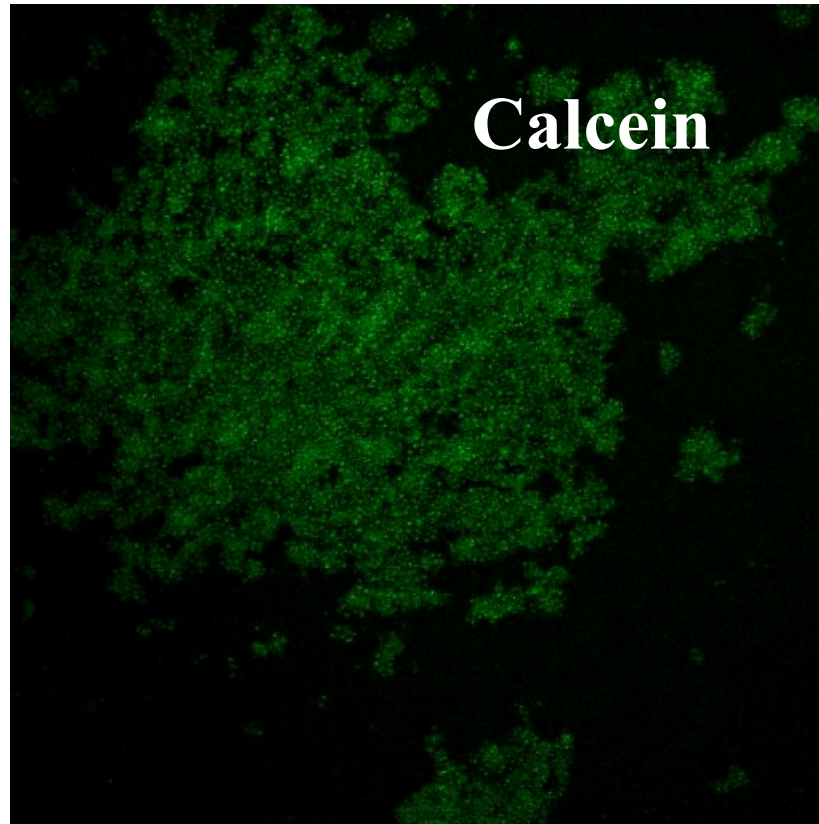
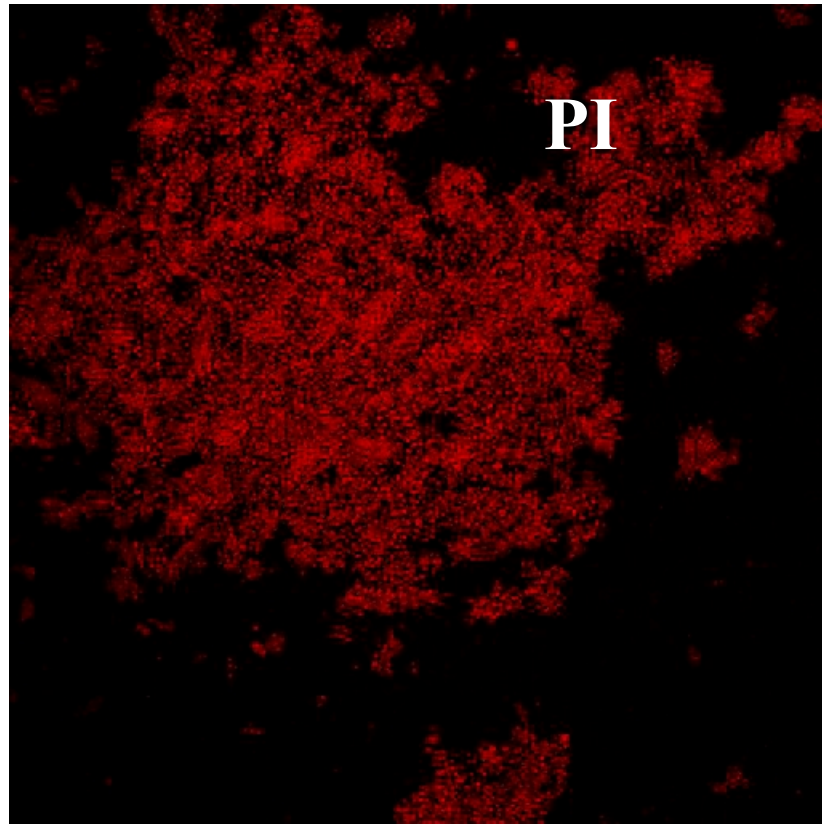
Videos after optoporation (10X)



Z-projections after optoporation (10X)



3D projections of optoporated spheroids (10X)



Dextran-3000 delivery (680nm, 9mJ, 30s)

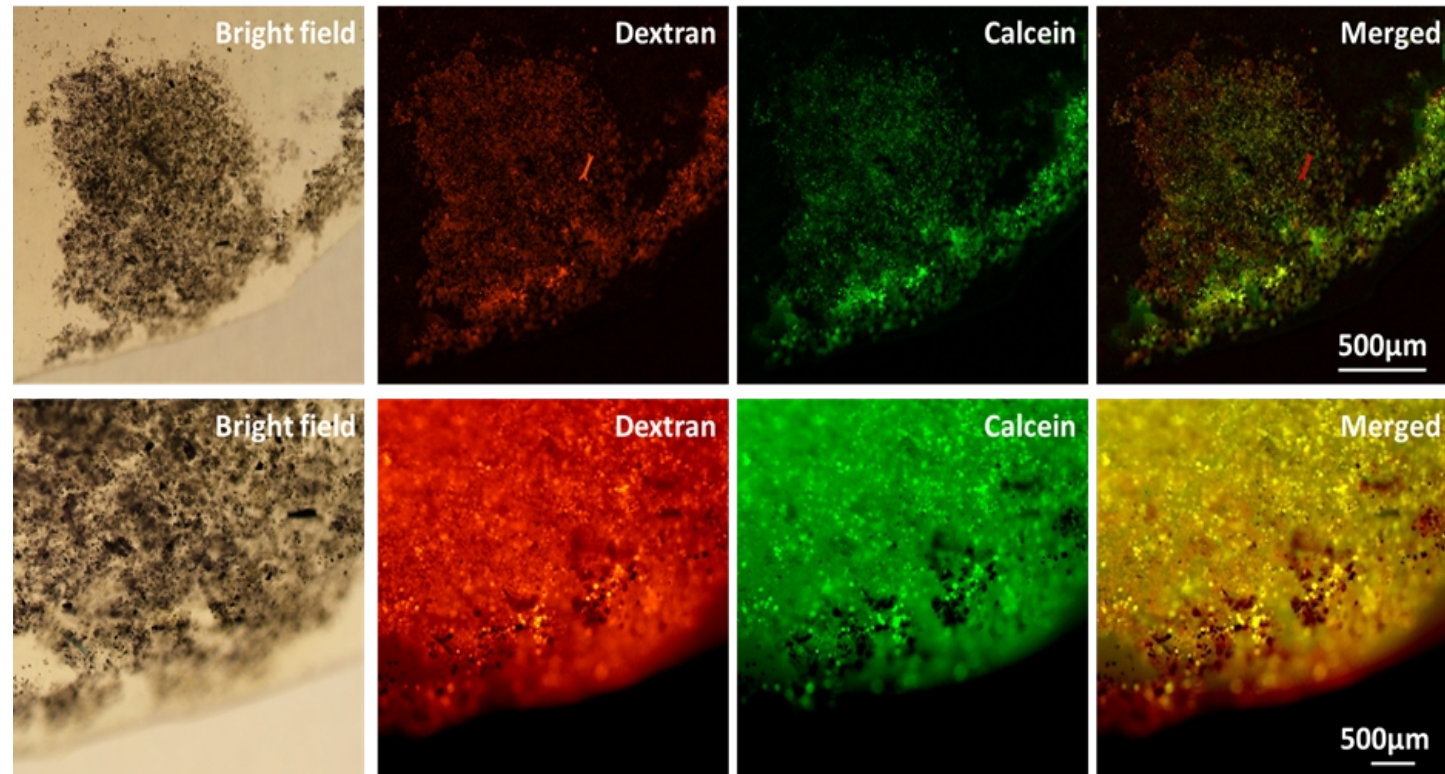


Figure S2. Demonstration of optoporation-mediated delivery of Dextran 3000 in 3D SiHa tumor spheroids. Bright field images of tumor spheroids are acquired post laser irradiation. Corresponding fluorescence images of tumor spheroids demonstrating successful delivery of Dextran dye (red) after optoporation.