

Supplementary Information

Study of oxygen tension variation within live tumor spheroids using microfluidic devices and multi-photon laser scanning microscopy

Sreerupa Sarkar,^{a,b,c} Chien-Chung Peng,^b Chiung Wen Kuo,^b Di-Yen Chueh,^b Hsiao-Mei Wu,^b Yuan-Hsuan Liu,^b Peilin Chen^b and Yi-Chung Tung^{b,c,d*}

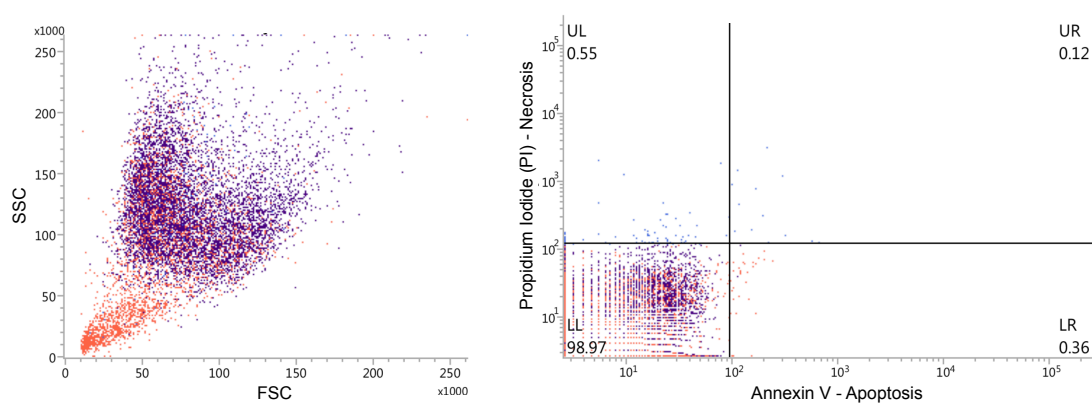


Figure S1. The flow cytometry results of the MG-63 spheroids with diameters of $140 \pm 10 \mu\text{m}$ cultured in the microfluidic devices for 48 hours. The flow cytometry analysis is performed according to the reported protocol⁴⁷. (a) Plot of the side scatter and forward scatter signals. (b) Plot of the propidium iodide (PI) and Annexin V signals. The results show that the cells within the spheroids have high viability with very small amount of the cells are apoptotic or necrotic.