

RESEARCH ARTICLE

High-throughput fabrication of cell spheroids with 3D acoustic assembly devices

Supplementary file

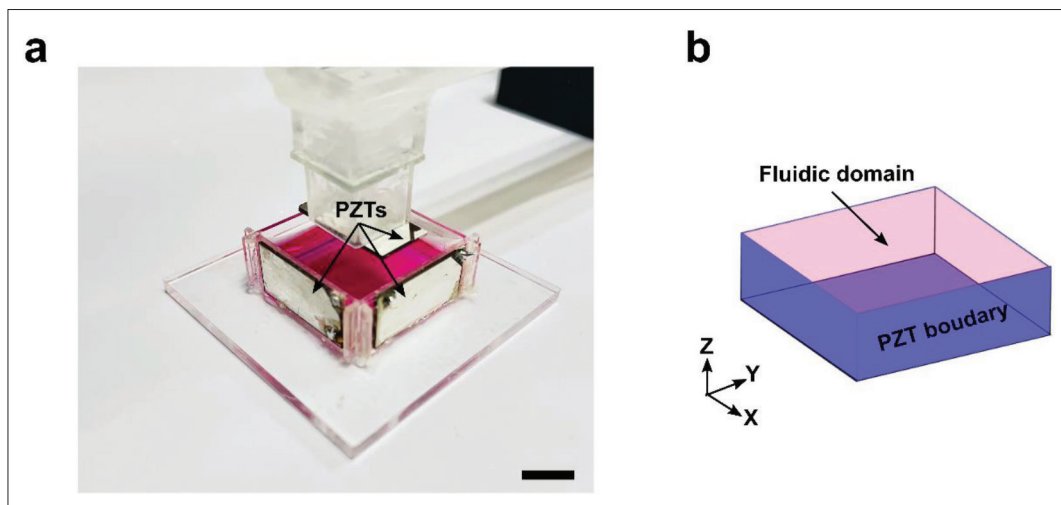


Figure S1. 3D acoustic assembly device and simulation domain. (a) A bright image of the 3D acoustic assembly device. Scale bar: 1 mm. (b) Simulation domain of the 3D acoustic assembly device. The three blue side walls were set to be plane incident wave boundary to account for the acoustic waves generated by PZTs.

Other files:

Videoclip S1. Acoustic assembly process of particles with a 2D array pattern. It was observed that a clear pattern of 2D array was generated when RF signals were applied to the only two PZTs in the horizontal direction.

Videoclip S2. A serial view of the acoustically assembled particle aggregates. It was observed that the particle aggregates alternately appeared and disappeared as the microscope's focal layer continued to move upward from the bottom. Scale bar: 250 μm .

Videoclip S3. A 3D confocal movie of the acoustically assembled particle aggregates. Scale bar: 250 μm .

Videoclip S4. A serial view of the acoustically assembled cell aggregates. It was observed that the cell aggregates alternately appeared and disappeared as the microscope's focal layer continued to move upward from the bottom. Scale bar: 250 μm .