Electronic Supplementary Material (ESI) for Lab on a Chip. This journal is © The Royal Society of Chemistry 2018

Supplementary Material

Microfluidic diamagnetic water-in-water droplets: a biocompatible cellencapsulation and manipulation platform

Maryam Navi, acd Niki Abbasi, bcd Morteza Jeyhani, bcd Vaskar Gnyawali, bcd and Scott S. H. Tsai *abcd

Caption of the multimedia file

Supplementary video 01 shows the separation of particle-encapsulating droplets from empty droplets when (a) the magnet is not present, and at three different magnet distances (b) $y_m = 2.2$ mm, (c) $y_m = 1.9$ mm, and (d) $y_m = 1.4$ mm.

Supplementary video 02 shows the separation of cell-encapsulating droplets from empty droplets when (a) the magnet is not present, and at three different magnet distances (b) $y_m = 2.0$ mm, (c) $y_m = 1.7$ mm, and (d) $y_m = 1.3$ mm.

^a Graduate Program in Biomedical Engineering, Ryerson University, Toronto, Canada

^b Department of Mechanical and Industrial Engineering, Ryerson University, Toronto, Canada

^c Keenan Research Centre for Biomedical Science, St. Michael's Hospital, Toronto, Canada

^d Institute for Biomedical engineering, Science and Technology (iBEST) – a partnership between Ryerson University and St. Michael's Hospital