



Featuring work from the group of Professor R. Bashir in the Department of Electrical and Computer Engineering & Bioengineering and the Micro and Nanotechnology Laboratory (MNTL), University of Illinois at Urbana-Champaign, Urbana, IL, USA.

Title: Dielectrophoresis-based cell manipulation using electrodes on a reusable printed circuit board.

A convenient and affordable approach to implement dielectrophoresis (DEP) particle manipulation without micro-fabrication on a chip is demonstrated. By using reusable electrodes on a printed circuit board and a PDMS microfluidic channel on a glass coverslip, mammalian cells and polystyrene beads are manipulated aligned with DEP.

As featured in:



See Bashir *et al.*, *Lab Chip*, 2009, **9**, 2224–2229.