

Last Name (print): _____ First Name (print): _____

WORKSHOP 5 - YCL

Dielectrophoresis to Collect Cancer Cells, February 13, 2014

We can apply dielectrophoresis (DEP)-positive to attract selective group of cells and DEP-negative to repel other group of cells. One approach is to apply the deflector electrodes as shown below. What would be the AC frequency if we want to collect cancer cells from normal cells with their cutoff frequencies as shown below? The AC frequency is one of the critical variable to be controlled. Please identify other critical properties or variables for an effective DEP-based collection device.

Electrophoresis 2010, 31, 2655–2663

Micro

