



**Supplementary Figure S1.** Calculated flow field in the “Tulip” microfluidic device. The density of the streamlines and the color code represents the velocity magnitude. A-B) streamlines with empty traps (without trapped cells) and the corresponding velocity magnitude profile across the channel along the line. C-D) streamlines with closed traps (simulating traps occupied by cells) and the corresponding velocity magnitude profile across the channel along the line.