

FRONTS IN MICROFLUIDICS

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We have studied fronts in microfluidics both experimentally and theoretically. We are motivated by the problem of filling a microchannel. We checked the validity of the slip boundary condition for the velocity at the surface of the cell.

[1] Chang-Hwan Choi, K.Johan A. Westin, and Kenneth S.Breuer. *Physics of Fluids*, VOLUME 15, NUMBER 10, OCTOBER 2003