Droplet-Driven Transports on Superhydrophobic-patterned Surface Microfluidics
Siyuan Xing, Ryan S. Harake, and Tingrui Pan*
Micro-Nano Innovations (MiNI) Laboratory, Department of Biomedical Engineering,
University of California, Davis, USA

Figure S1. Illustration of the two-step procedure of laser micromachining to create superhydrophobic PDMS-based micropatterns: a) spin- or cast-coating of a thin layer of PDMS pre-polymer; b) laser engraving of nanofibrous structures on PDMS matrix; and c) laser ablation of the PDMS layer for microfluidic network formation.
**Figure S2.** Summary of the contact angle ($\theta_c$) measurements over different combined configurations of laser powers and speeds for optimized superhydrophobicity (scale bar is 2.5µm).