

Supplementary Information:

Reinforcement Learning for Dynamic Microfluidic Control

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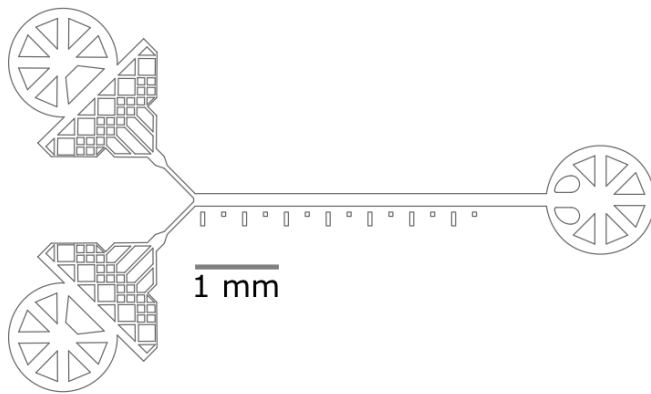
Figures

Figure S1: Device architectures

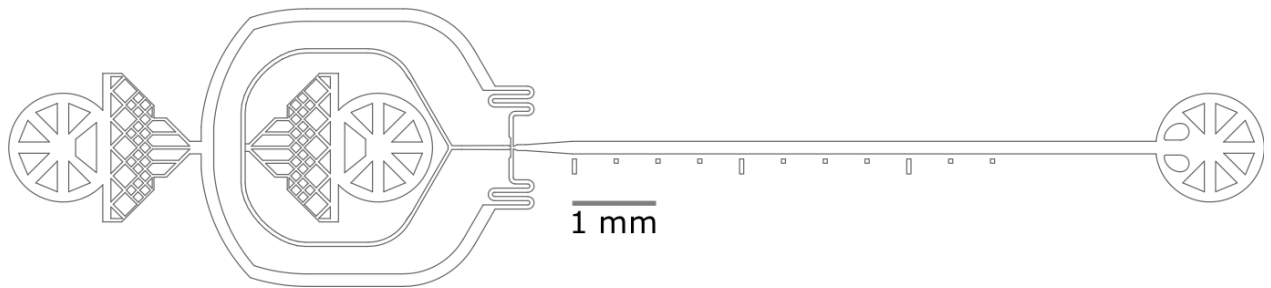
Figure S2: Laminar flow challenge raw data

Figure S3: Droplet size challenge raw data

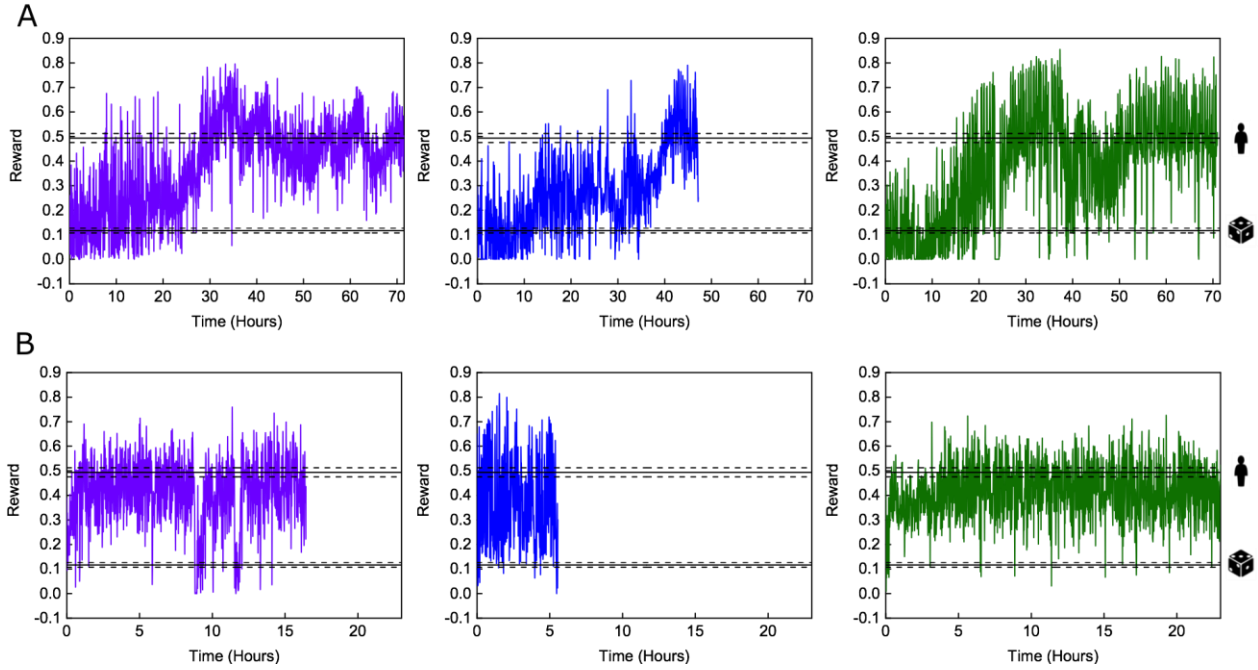
A



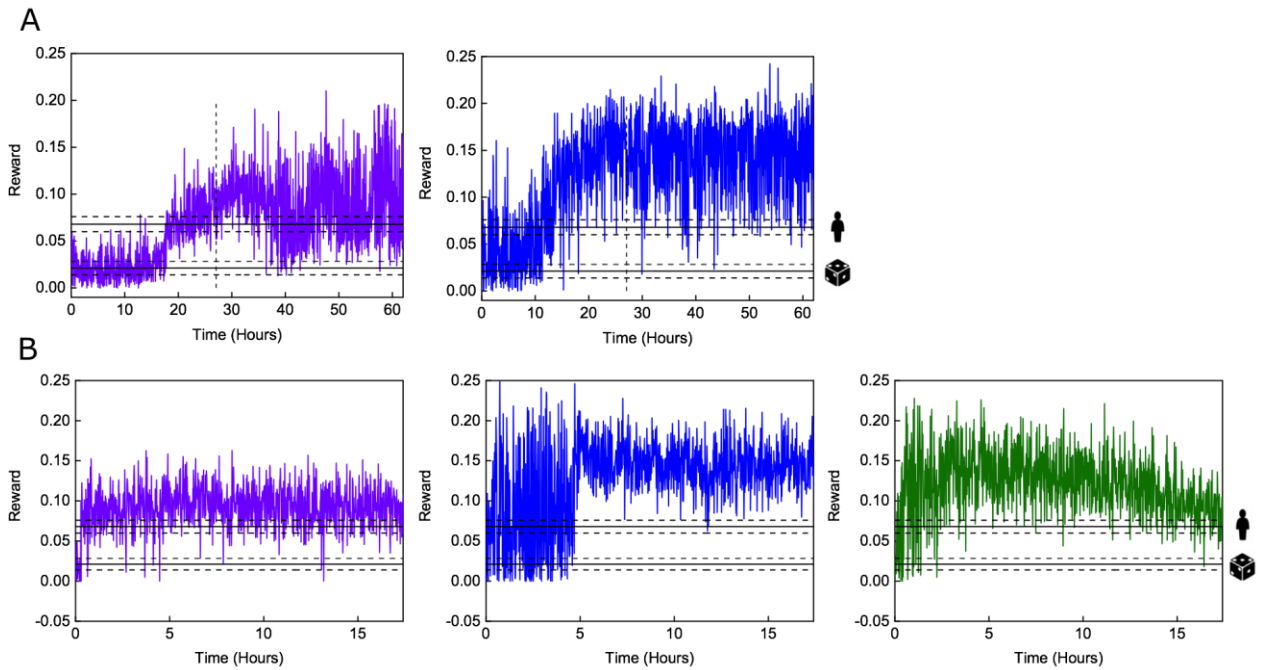
B



Supplementary Figure 1. Designs of the A) Laminar flow and B) Droplet devices.



Supplementary Figure 2. Raw data for experimental repeats of the laminar flow challenge. A) DQN and B) MFEC. Human performance level is indicated with a human icon, and random performance level is indicated with a die icon. Mean = solid line. 95 % confidence intervals = dashed line.



Supplementary Figure 3. Raw data for experimental repeats of the droplet size control challenge. A) DQN and B) MFEC. Human performance level is indicated with a human icon, and random performance level is indicated with a die icon. Mean = solid line. 95 % confidence intervals = dashed line.