

*Electronic Supplementary Information (ESI) for Lab on a Chip*

## **ElectroTaxis-on-a-Chip (ETC): an Integrated Quantitative High-throughput Screening Platform for Electrical Field-Directed Cell Migration**

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**Video Captions:**

**Video S1** Cell migration under 2.1 mV/mm electrical field (EF) stimulation. The EF vector is from left to right

**Video S2** Cell migration under 4.1 mV/mm EF stimulation. The EF vector is from left to right

**Video S3** Cell migration under 8.1 mV/mm EF stimulation. The EF vector is from left to right

**Video S4** Cell migration under 14.9 mV/mm EF stimulation. The EF vector is from left to right

**Video S5** Cell migration under 27.6 mV/mm EF stimulation. The EF vector is from left to right

**Video S6** Cell migration under 52.8 mV/mm EF stimulation. The EF vector is from left to right

**Video S7** Cell migration under 101.2 mV/mm EF stimulation. The EF vector is from left to right

**Video S8** Cell migration under 195.6 mV/mm EF stimulation. The EF vector is from left to right

**Video S9** Cell migration under 380 mV/mm EF stimulation. The EF vector is from left to right

**Video S10** Cell migration under 778 mV/mm EF stimulation. The EF vector is from left to right

**Video S11** Cell migration under 1614.4 mV/mm EF stimulation. The EF vector is from left to right