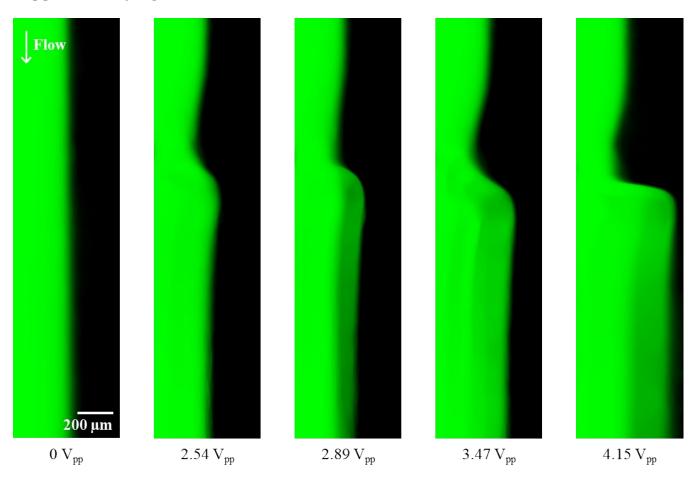
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## **Supporting Information**

## Antibiotic susceptibility test under a linear concentration gradient using travelling surface acoustic waves

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## Supplementary figures

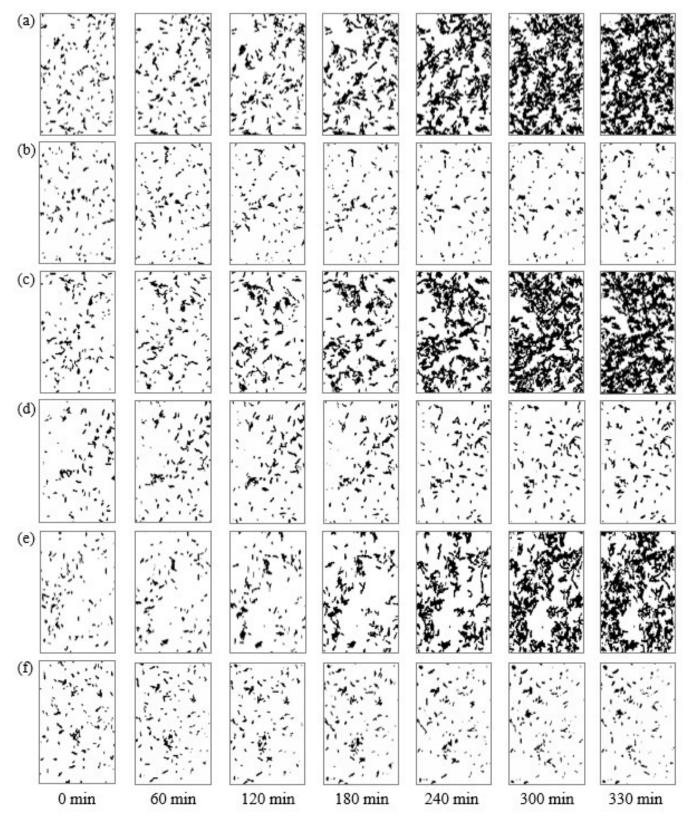


**Fig. S1** Fluorescent and antibiotic-free fluid are injected at the left and right inlets at flow rates of 100  $\mu$ L/h, respectively. A linear antibiotic concentration gradient produced by applying an electrical potential 0, 2.54, 2.89, 3.47 and 4.15  $V_{pp}$ 

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**Fig. S2** Time-lapse growth images of *P. aeruginosa* under (a) 1.2  $\mu$ g/mL gentamicin. (b) 2.7  $\mu$ g/mL gentamicin. (c) 2.5  $\mu$ g/mL levofloxacin. (d) 5.2  $\mu$ g/mL levofloxacin, respectively. Time-lapse growth images of *E.coli* under (e) 1.1  $\mu$ g/mL gentamicin. (f) 2.8  $\mu$ g/mL gentamicin, respectively.

Supplementary Movie S1: Switching gradient generation