

A robust diffusion-based gradient generator for dynamic cell assays.

Electronic Supplementary Information

Contents:

- VideoS1.mov Evolution of a chemical gradient
- VideoS2.mov Evolution of GFP intensity per region inside a buried channel. A toxin gradient was cycled three times on and off throughout the total duration of the experiment (43 h). The value of the average intensity for each region was normalized to the average intensity at the beginning of the experiment.
- VideoS3.mov Cell migration.
- Fig. S1: Exploded view of the microfluidic chip

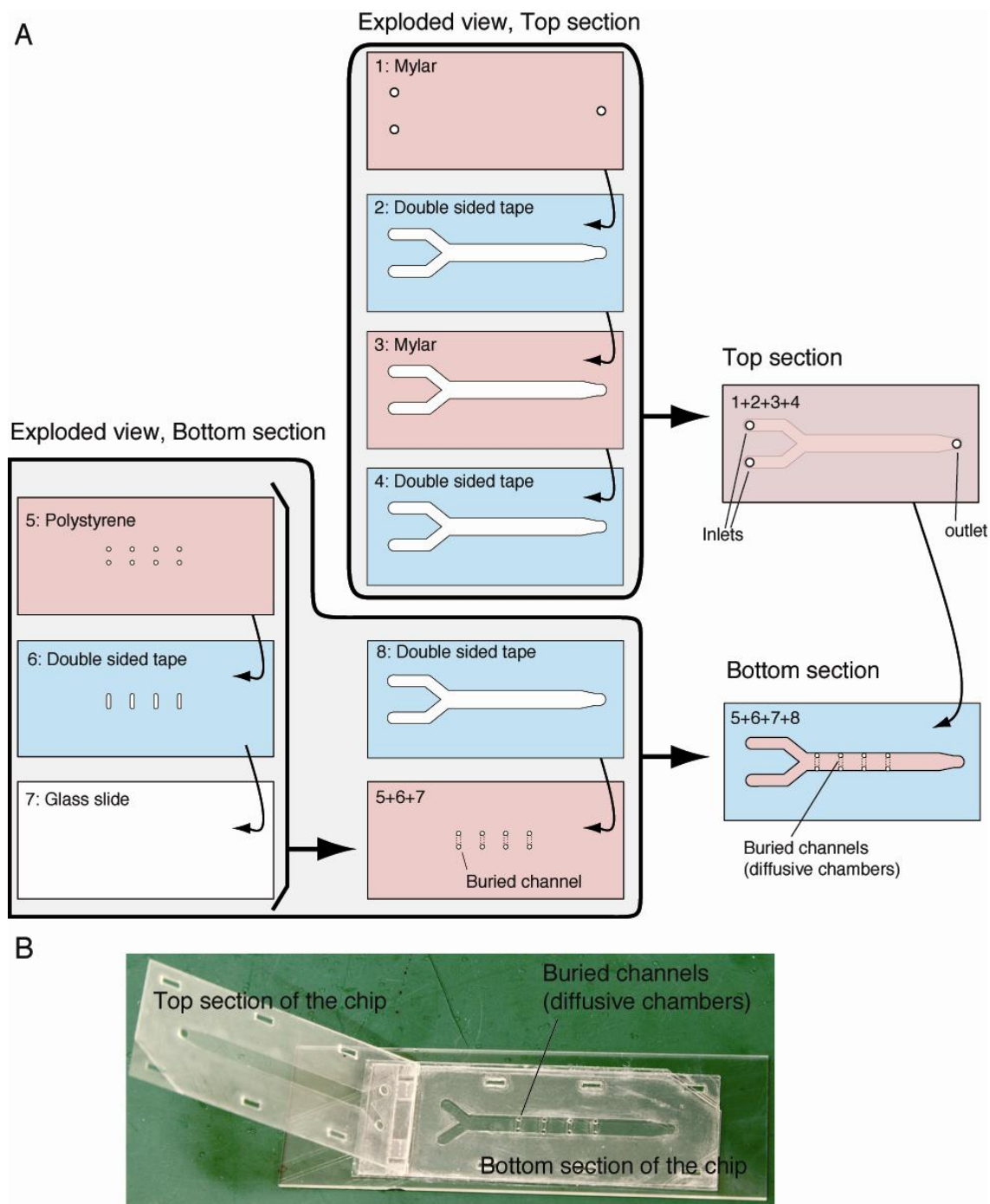


Fig. S1. Exploded view of the microfluidic chip. (A) The top section and bottom section of the chip are composed of several alternating layers of plastic and double-sided tape. In the top section layers 3 and 4 were added to increase the depth of the microchannel. All the different layers were aligned using “alignment-tabs” as explained in the main manuscript. The adhesive layers 8 and 4 were necessary to avoid leakage when the two section of the chip were stack together after filling the buried channels. (b) Micrograph of the prototype with both sections open prior filling the buried channels. An alignment tab acting as hinge ensures that both sections are well aligned when the top section is folded down onto the bottom section of the chip