



Figure S1

Experimental setup of a three-dimensional brain-on-a-chip with an interstitial level of flow. (a) Scheme of experimental setup. The flow is extremely slow flow that is diffusion-dominant and it is driven by osmotic pump system. Osmotic flow through the semipermeable membrane (cellophane film) occurs due to the osmosis between distilled water (DW) and the 0.05M PEG solution having the semipermeable membrane in between. (b) and (c) shows pictures of the experimental setup.