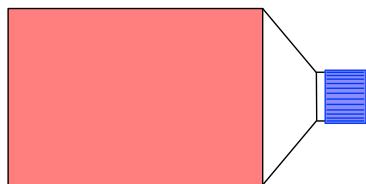


Figure 1

A

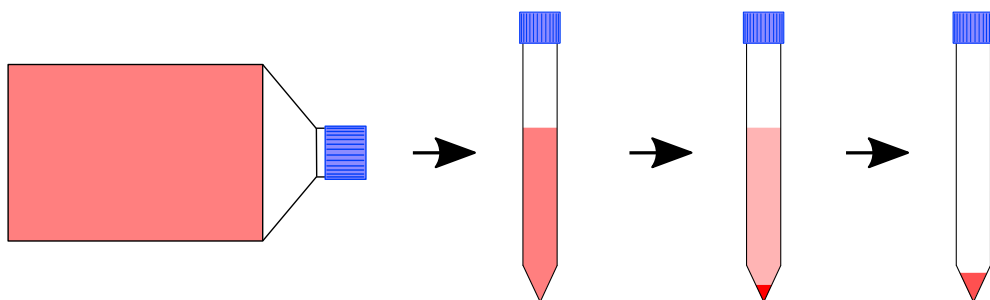
Stimulate hiPSC-ECs with TNF α (10 ng/mL) in EC-SFM FULL overnight



B

Wash the cells with PBS. Add 4 mL per flask of dissociation enzyme and incubate for 5 min at RT

Dilute the enzyme with 8 mL per flask of EC-SFM. Collect the cells in 15 mL conical tube. Centrifuge the cells at 300 x g for 3 min at RT. Resuspend the cell pellet in EC-SFM FULL to make a $\sim 1.5 \times 10^4$ cells/ μ L suspension

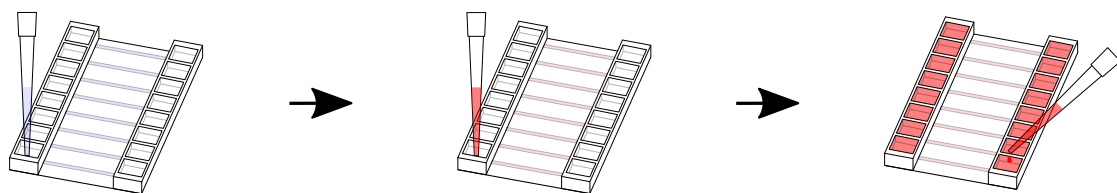


C

Coat the chip with human recombinant fibronectin (50 μ g/mL) and incubate overnight at +4 °C

Inject 6 μ L of hiPSC-ECs suspension (1.5×10^4 cells/ μ L) and incubate for 15 min at +37 °C

Add 40 μ L of EC-SFM FULL into reservoirs at both ends of each channel and incubate for 1h at +37 °C. Add 50 μ L more after 1 h.



D

Wash leukocytes with PBS and centrifuge at 300 x g for 3 min at RT

Stain leukocytes with DiOC6 (1 μ M) in PBS for 10 min at RT in the dark

Wash leukocytes with PBS and centrifuge at 300 x g for 3 min at RT

Resuspend leukocytes in RPM1 medium at the end concentration 2.5×10^6 cells/mL

