

Visualization of Micro-Agents and Surroundings by Real-Time Multicolor Fluorescence Microscopy Supplementary Material

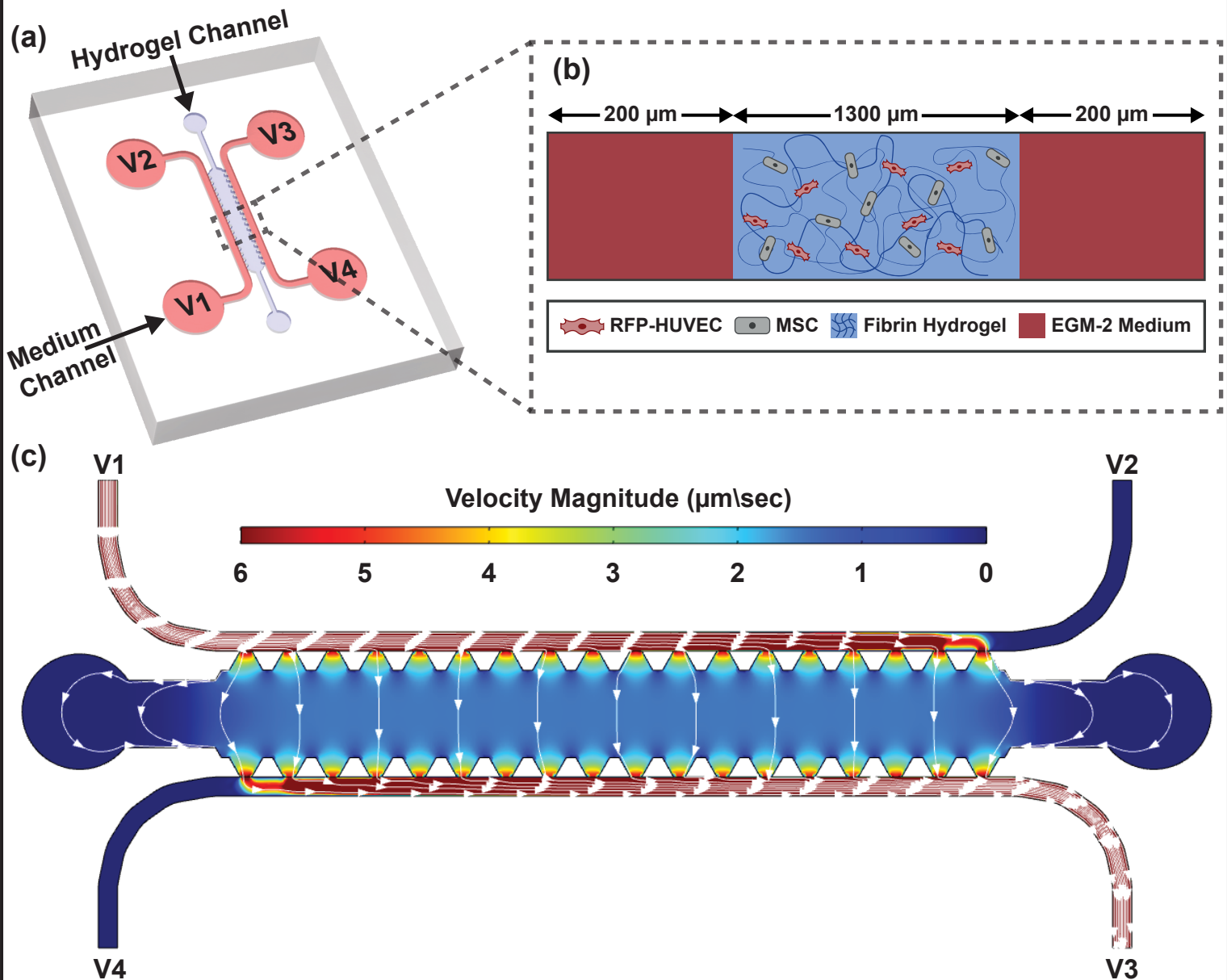
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Supplementary Figure 1. General overview of the microfluidic system to create an *in vitro* vascularization for the mobility of micro-agents. (a) Schematic representation of the microfluidic system to illustrate the hydrogel filling ports and the different flow channel access points. The hydrogel channel is filled with a fibrin hydrogel with co-cultured red fluorescence protein - human umbilical vein endothelial cells (RFP-HUVECs) and mesenchymal stem cells (MSC) (b) and perfused with endothelial cell growth medium-2 (EGM-2 medium) for 7 days under constant interstitial flow. (c) Velocity heat map of the flow simulation using COMSOL Multiphysics (version 5.5, COMSOL AB, Sweden) for displaying the uniform interstitial flow across the fibrin hydrogel for stimulating the vascular formation of the embedded co-culture cells.