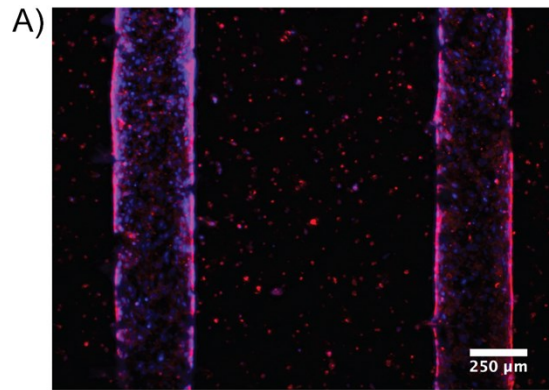


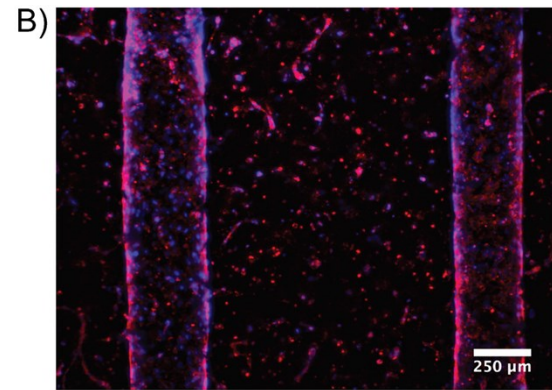
Stromal Cell Identity Modulates Vascular Morphogenesis in a Microvasculature-on-a-Chip Platform

Emily A. Margolis¹, David S. Cleveland², Yen P. Kong¹, Jeffrey A. Beamish², William Y. Wang, Brendon M. Baker, and Andrew J. Putnam^{1*}

SUPPLEMENT



500 K/mL HUVECs



1 M/mL HUVECs

Figure S1: ECs in the absence of SCs fail to form vessels. Using two different EC densities (A) 500 K/mL and (B) 1 M/mL, ECs failed to self-assemble into vessels by day 7. Primitive vessel structures formed in the higher density condition but did not remain stable over time.

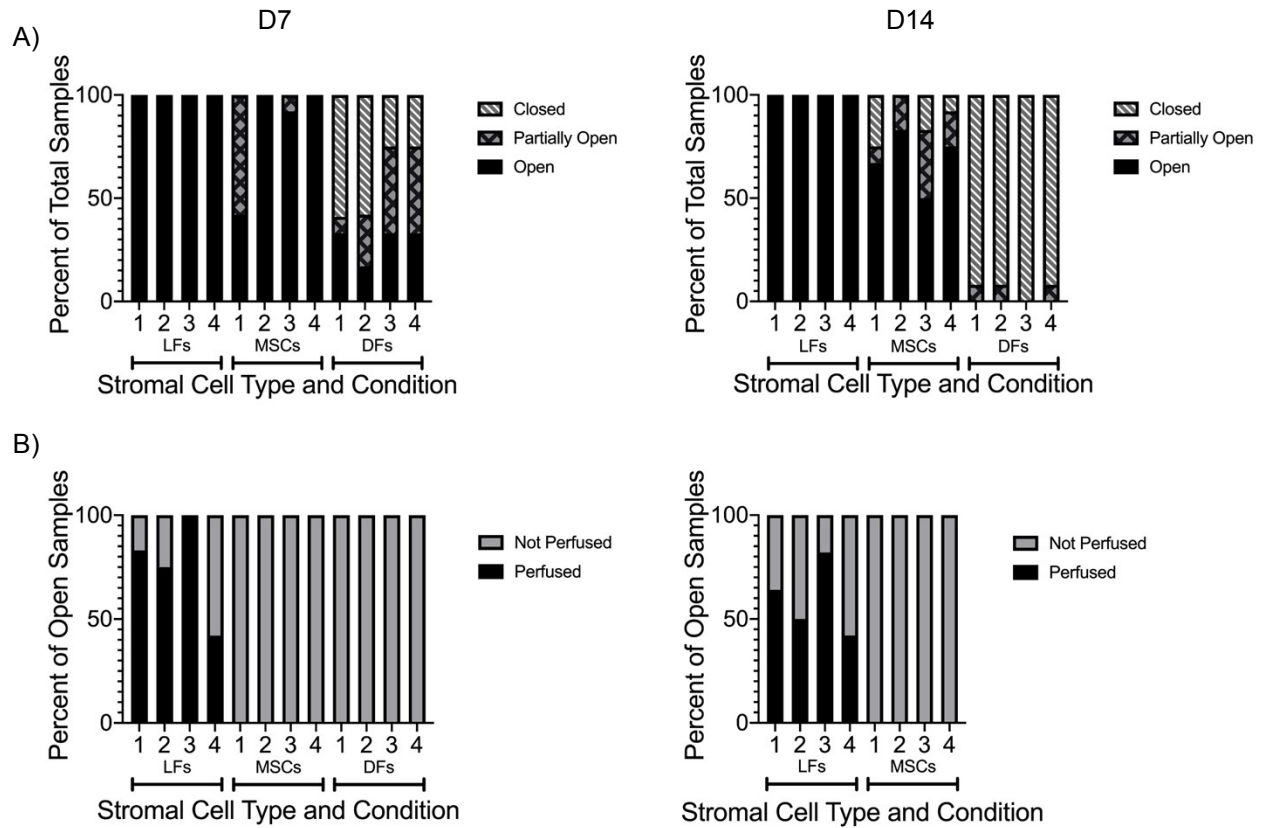


Figure S2: Stromal cell type determines vessel patency and microvascular network perfusion. (A) Channel patency and (B) network perfusion for each cell type on day 7 (left) and day 14 (right). A total of $n = 3-4$ per condition, per time point, per cell type and $N = 3$ independent replicates included per condition, per time point, per cell type were analyzed.