Electronic Supplementary Information (ESI)

SFig. 1. Confocal immunofluorescence of collagen IV. Collagen IV (grey) accumulation over 14 days in culture. The individual vessel (green) and SMC (red) channels are also shown. The merged micrographs are shown in the bottom row. Scale bar, 50 μm.

SFig. 2. Confocal immunofluorescence of collagen I. Collagen I (grey) accumulation over 14 days in culture. The individual vessel (green) and SMC (red) channels are also shown. The merged micrographs are shown in the bottom row. Scale bar, 50 μm.

SFig. 3. Confocal immunofluorescence of fibronectin. Fibronectin (grey) accumulation over 14 days in culture. The individual vessel (green) and SMC (red) channels are also shown. The merged micrographs are shown in the bottom row. Scale bar, 50 μm.

SVideo 1. Animated z-stack of the multilayered EC-SMC co-culture. SMCs are seen both below as well as on top of the vessel network.

SVideo 2. Confocal 3-D reconstruction of a vessel network. HUVECs form networks that remain as such for up to 21 days in culture.

SVideo 3. Time-lapse microscopy of co-cultures at Day 2. HUVECs (green) and SMCs are structurally connected; collective migration of SMCs on the surface resulted in deformation of the overlying EC network. 12 min between frames; 12.8 h total.





