

## Electronic Supplementary Information

**Supplement Movie 1A.** Human umbilical vein endothelial cell tubule formation on a SAM array spot presenting 1% VR-BP in the absence of soluble VEGF over 0-24 hrs. Movie dimensions are 1365  $\mu\text{m}$  x 1365  $\mu\text{m}$ . (File name: S1A +VRBP -VEGF.mov) *Keywords:* human umbilical vein endothelial cell, tubulogenesis, SAM, array, VEGF

**Supplement Movie 1B.** Human umbilical vein endothelial cell tubule formation on a SAM array spot presenting 1% VR-BP in the presence of soluble VEGF over 0-24 hrs. Movie dimensions are 1365  $\mu\text{m}$  x 1365  $\mu\text{m}$ . (File name: S1B +VRBP +VEGF.mov) *Keywords:* human umbilical vein endothelial cell, tubulogenesis, SAM, array, VEGF

**Supplement Movie 1C.** Human umbilical vein endothelial cell tubule formation on a SAM array spot presenting 0% VR-BP in the absence of soluble VEGF over 0-24 hrs. Movie dimensions are 1365  $\mu\text{m}$  x 1365  $\mu\text{m}$ . (File name: S1C -VRBP -VEGF.mov) *Keywords:* human umbilical vein endothelial cell, tubulogenesis, SAM, array, VEGF

**Supplement Movie 1D.** Human umbilical vein endothelial cell tubule formation on a SAM array spot presenting 0% VR-BP in the presence of soluble VEGF over 0-24 hrs. Movie dimensions are 1365  $\mu\text{m}$  x 1365  $\mu\text{m}$ . (File name: S1D -VRBP +VEGF.mov) *Keywords:* human umbilical vein endothelial cell, tubulogenesis, SAM, array, VEGF