



Supplemental Figure 4. Neo-vessels formed in co-cultures of MSC, enriched Mo and enriched T cells show similarities to vascular outgrowth from inflamed synovial tissue. (A-D) 2D cross-section images (frame 25/45) of collapsed z-stack images shown in Figure 6 (A-E) demonstrating that (B) CD31⁺ EC of developing vascular structure co-express (D) Col-IV (stars in (B) and (D)). Perivascular stromal cells do not express (B) CD31 (arrows), but are (D) Col-IV⁺ (arrows). (C) CD45⁺ leukocytes are associated with vascular structure. (A) Merge. (A-D) Nuclei stained with DAPI. Scale bars, 10 μ m. (E-I) Vascular outgrowth originating from inflamed synovial tissue fragment obtained from a patient with osteoarthritis, cultured in 3D fibrin matrix for 20 days as described in a previous publication (Rüger et al., 2018). (F) The CD31⁺ vascular sprout is surrounded by (H) Col-IV matrix and by Col-IV⁺ stromal cells that show close contact with perivascular cells co-expressing (G) CD45 and (F) CD31 consistent with macrophages. (I) DAPI stain. (E) Merge. (E-I) Collapsed 28 μ m-z-stack consisting of 35 consecutive images. Scale bars, 10 μ m.