Supplementary Information (SI) for Lab on a Chip. This journal is © The Royal Society of Chemistry 2025

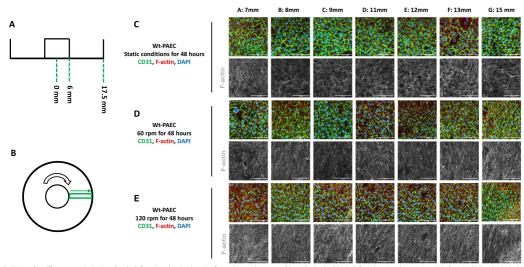


Fig. S3 mages from different cross-section locations of a pulsatile-flow culture channel under various flow conditions, and assessment of F-actin directionality. (A) Pulsatile-flow culture channel cross-section with its dimension. (B) Flow direction in the representative images under flow conditions and the location of images. (C) Representative images (n = 7) of endothelial cells within of a state conditions. (c) elicit behilder admontal alignment with the obscenable partner. (D) Endothelial cells under 60 rm flow conditions experienced low shear stresses across the channel, leading to slightly more diverse cryoketes (F) Except for extra conditions or experienced higher shear stresses across the channel, leading to slightly more diverse cryoketes(F) Exit in order 60 rm flow conditions experienced higher shear stresses across the channel, leading to slightly more diverse cryoketes(F) Exit in order 60 rm flow conditions experienced higher shear stresses across the channel, leading to slightly more diverse cryoketes(F) Exit in order 60 rm flow conditions are present the conditions and the location of the conditions are considered to stress of the conditions and the conditions are considered to stress of the conditions and the location of the conditions and the location of the conditions are considered to stress of the conditions and the location of the conditions are considered to stress of the conditions are considered to stress of the conditions and the location of the conditions are considered to stress of the conditions are considered to stress of the conditions are considered to stress of the conditions are conditions are considered to stress of the conditions are consid