Temporal-spatial Low Shear Stress Induces Heterogeneity of Hematopoietic Stem Cell Budding in zebrafish

Cellular and Molecular Life Sciences

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Supplementary material

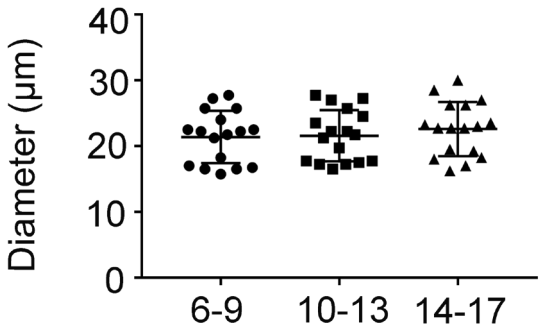

Figure S1 Vascular diameter in three regions of the AGM

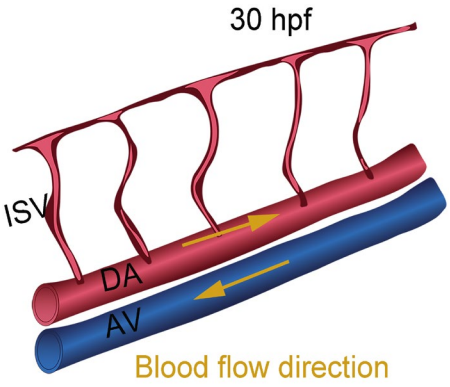

Figure S2 Schematic overview of the vasculature. Arrows represent the direction of blood flow

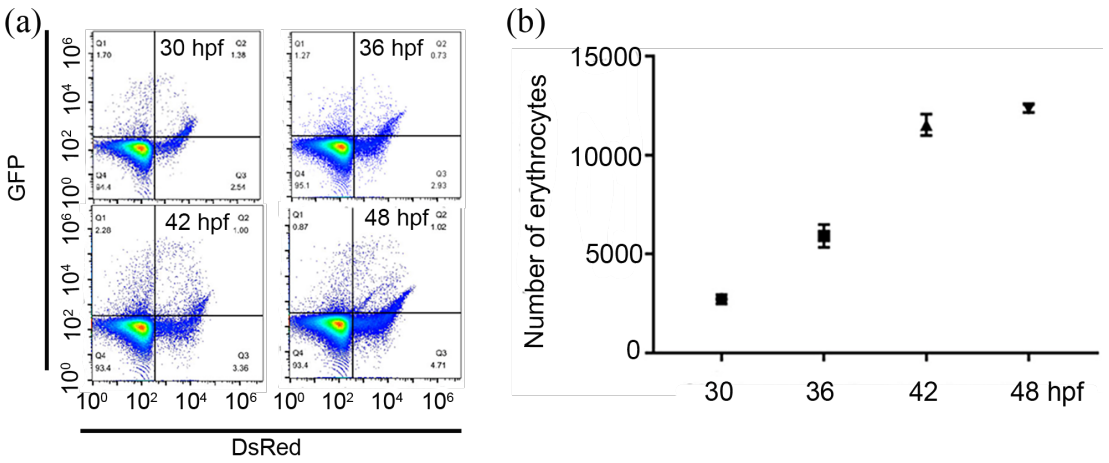

Figure S3 Changes in the number of embryonic blood cells over time**.** (**a**) Fluorescence-activated cell sorting (FACS) analysis of the number of FLK1- and GATA1-positive cells in each embryo at different developmental stages. (**b**) Quantification of the number of erythrocytes in (**a**)

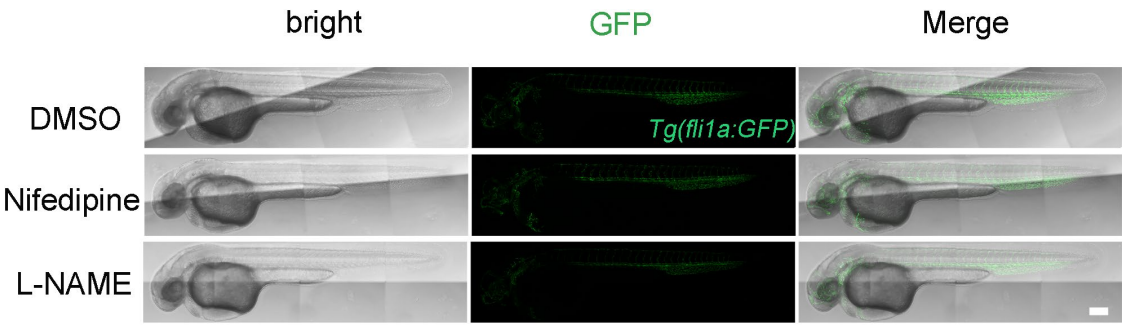

Figure S4 Effects of nifedipine and L-NAME on blood vessels and morphology of zebrafish embryos from 24 to 36 hpf. Scale bars: 100 μm

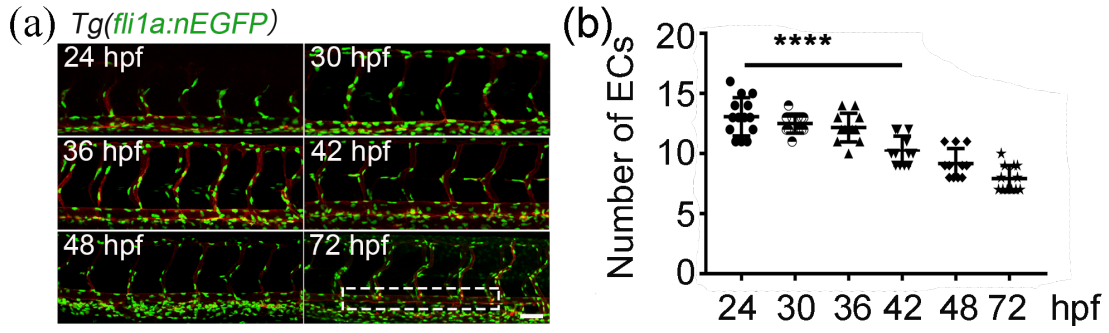

Figure S5 Changes in the number of ECs in the DA over time. (**a**) The total EC number per segment at 24, 30, 36, 42, 48, and 72 hpf. (**b**) Quantification of ECs. The position of the statistics is indicated by the white box. Scale bars: 20 μm

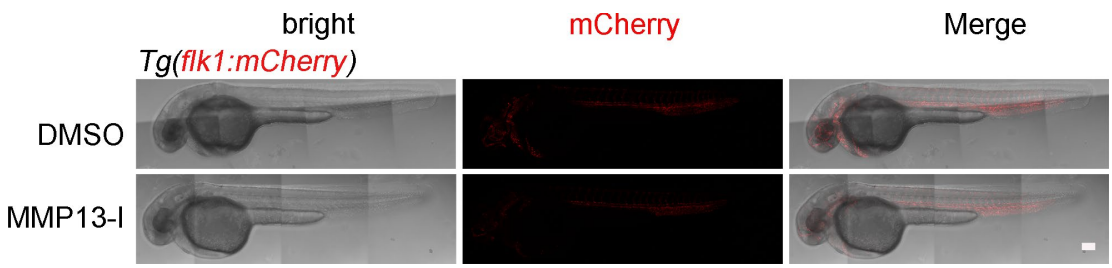

Figure S6 Effects of MMP13-I on blood vessels and morphology of zebrafish embryos from 24 to 36 hpf. Scale bars: 100 μ