

Inventory of Supplemental Information

Figure 1. Associated Supplemental Information

Figure S1. Postembryonic zebrafish coronary vessel development.

Figure S2. Coronary vasculature remains responsive to increases in heart size and output requirement.

Figure 2. Associated Supplemental Information

Movie S1 (Movie 1.avi). Migration of endothelial cells over the surface of the ventricle between 77dpf and 79dpf.

Figure 3. Associated Supplemental Information

Figure S3. Cell lineage tracing of endocardial cells.

Movie S2 (Movie 2.mov). IMARIS analysis of clonal labeling of AV-canal endocardium and early angiogenic sprouts. Z-projection through AV-canal endocardial clone and contiguous angiogenic sprouts.

Figure 4. Associated Supplemental Information

Figure S4. *cxc12b:YFP* and *cxcr4a:YFP* expression during vessel formation.

Figure 5. Associated Supplemental Information

Figure S5. *cxcr4a* mutant zebrafish fail to develop functional coronary vasculature.

Figure S6. Coronary vasculature develops normally in *cxcr4b* mutants, but *cxcl12b* and *cxcl12a* act redundantly.

Movie S3 (Movie 3.avi). Abnormal migration of *cxcr4a* mutant endothelial cells over the surface of the ventricle between 77dpf and 79dpf.

Figure 6. Associated Supplemental Information

Figure S7. Cxcl12b directs coronary vessel formation.

Figure 7. Associated Supplemental Information

[None]