Dear Editors,

Please consider the attached manuscript “Mechanical vessel injury in zebrafish embryos,” for publication in your journal with an accompanying video. This manuscript details how to perform a mechanical injury on zebrafish embryos resulting in vascular breach, thrombus formation, and subsequent vascular repair. We provide evidence that these processes follow a reproducible pattern and can be measured, and demonstrate that mechanical vessel injury provides a novel platform for studying and visualizing vessel injury and repair in a whole animal model. We believe this technique is well suited to a video journal format as the micromanipulation involved in generating the injury is most easily replicated if the procedure can be visualized. This manuscript should be of interest for researchers studying injury, wound healing, and cellular processes associated with hemostasis and repair.