

Supplementary Materials and Methods

Zebrafish lines used in xenotransplantation study

Zebrafish lines used in these studies included the transgenic strain expressing enhanced green fluorescent protein (EGFP) under the Flk1 promoter, *Tg(Flk-1;EGFP)*, which was a gift from Dr. Daniel Wagner (Rice University) and allows for visualization of the vascular system. In addition, the pigmentation mutant *casper* line that demonstrates a complete lack of all melanocytes and iridophores in both embryogenesis and adulthood was purchased from Zebrafish International Resource Center (ZIRC). This fish is almost entirely transparent. The casper *Tg(Flk-1;EGFP)* zebrafish was created by crossing *Tg(Flk-1;EGFP)* with the casper line.