

How to regenerate just the right amount of tissue: Know-how from the zebrafish tailfin model.

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Abstract:

In contrast to mammals, some vertebrates such as urodele amphibians and teleost zebrafish are highly regenerative. Upon major injuries, these animals can regenerate appendage structures in full with precise size and accurate patterning. Despite much progress made in unraveling the intricacies of this robust process, our understanding of the mechanisms governing size control during natural regeneration remains limited. Here, I will present the insights we have gained from the zebrafish tailfin model.