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<sup>OA</sup>**Open Access paper**

**Cover** Fgf-dependent depletion of microRNA-133 promotes zebrafish fin regeneration. Shown here is a stereomicrograph of a zebrafish fin, depicting the segmented bony rays within a milieu of connective tissue, nerves, blood vessels, epidermis, and pigment cells, which comprise the organ. When fins are amputated, the lost structures are faithfully restored within 2 wk in events dependent on formation and maintenance of a proliferative blastema. The microRNA miR-133 is depleted during regeneration, regulation that requires Fibroblast growth factor signaling, and facilitates proliferation of blastemal cells. (For details, see Yin et al., p. 728.)