



**Cover:** Fish birobotics is an emerging field that involves the development of robotic models for fish fin and body deformation to investigate aquatic locomotor dynamics (see Commentary by G. V. Lauder et al., pp. 2781–2794). The snowy grouper (*Epinephelus niveatus*) skeleton shows key features of fish skeletal design with the median and paired fins and their supporting fin rays, as well as the axial vertebral column. A robotic pectoral fin (lower left) and a programmable dual flapping foil robotic device (lower right) allow detailed investigation of fish locomotor dynamics. Photos by Karsten Hartel, James Tangorra and George Lauder.

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