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Cover: This special issue discusses the biomechanics of swimming and flight, ranging from the flow patterns of larval fish (bottom image; see article by Müller et al., pp. 196–205) and the aerodynamics of insect flight (top image; see article by Aono et al., pp. 239–257) to the kinematics of fish fins and the performance of flapping bird wings. With sections dedicated to motor systems and general fluid dynamic approaches, we offer a snapshot of the current state of fluid locomotion research. Images courtesy of Hao Liu and Ulrike Müller.

►Review article