**Supplementary materials legends:**

Supplementary Video 1 (.mpg, 1.4 MB): Slow-motion replay of the lateral-view and dorsal-view video of a juvenile *Lepomis gibbosus* capturing a bloodworm, the event mimicked by the present CFD model.

Supplementary Video 2 (.mpg, 1.1 MB): Axial velocity output of the CFD model (real-time duration = 0.24 s).

Supplementary Video 3 (.mpg, 1.0 MB): Pressure output of the CFD model (real-time duration = 0.24 s).