

**Table S1. Individuals and trials included in each analysis.** All trials meeting the requirements for a given analysis were included. Species is indicated in the Fish code (Cicoce = *Cichla ocellaris*, Cresax = *Crenicichla saxatilis*, Symaeq = *Symphysodon aequifasciatus*). Numerical column entries are the number of trials for that individual included, with ‘-’ when no trials were available. Avg. Gait Trajectory indicates whether (Y) or not (N) a given fish had sufficient data to be included in Figure 7. Species Gait Trajectory indicates whether the data for a given fish were included in the calculation of the species average trajectory.

Fish (Total Trials Attempted)	Trans. Speed	Max. Speed	Freq. and Amp.	Avg Gait Trajectory	Species Gait Trajectory
Cicoce1 (3)	3	3	1	Y	Y
Cicoce2 (3)	3	3	1	Y	Y
Cicoce3 (3)	3	3	2	Y	Y
Cicoce4 (4)	3	3	2	Y	Y
Cicoce5 (3)	3	3	-	N	N
Cresax1 (6)	2	2	2	Y	Y
Cresax2 (4)	1	1	1	Y	Y
Cresax3 (4)	1	-	-	N	N
Symaeq1 (3)	3	3	2	Y	Y
Symaeq2 (3)	3	3	2	Y	Y
Symaeq4 (3)	1	1	-	N	N
Symaeq5 (3)	3	3	2	Y	Y
Symaeq10 (2)	2	2	-	N	N

## Supplementary Information 1

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## Table S2

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