

TABLE S7 | Values of significant associations ($p < 0.05$) identified by the Fourth-Corner method of the RLQ analysis.

Morphological traits / Environmental variables	r	p
Relative width of caudal peduncle (RWPd) x Sand	0.50	<0.01
Relative width of caudal peduncle (RWPd) x Width	0.47	<0.01
Relative width of caudal peduncle (RWPd) x Woody debris	-0.48	<0.01
Relative area of dorsal fin (RAD) x Conductivity	0.41	0.01
Relative area of dorsal fin (RAD) x Width	0.51	<0.01
Relative area of dorsal fin (RAD) x Sand	0.53	<0.01
Relative area of dorsal fin (RAD) x Turbidity	0.44	0.01
Relative area of dorsal fin (RAD) x Woody debris	-0.47	0.02
Aspect ratio of caudal fin (ARC) x Conductivity	0.45	0.02
Aspect ratio of caudal fin (ARC) x Width	0.54	<0.01
Aspect ratio of caudal fin (ARC) x Sand	0.61	<0.01
Aspect ratio of caudal fin (ARC) x Turbidity	0.48	0.01
Aspect ratio of caudal fin (ARC) x Woody debris	-0.54	0.01
Aspect ratio of pectoral fin (ARPt) x Rocky substrate	0.41	0.03
Aspect ratio of pelvic fin (ARPv) x Width	0.41	0.02
Aspect ratio of pelvic fin (ARPv) x Sand	0.42	0.04
Mouth orientation (MO) x Rocky substrate	0.43	0.02
Mouth orientation (MO) x Woody debris	0.38	0.04
Mouth orientation (MO) x pH	0.37	0.01
Mouth orientation (MO) x Sand	-0.48	0.01



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