

TABLE S4 | Global Multiple Linear Regression Model (MLR) with all environmental variables used as predictors of the variation in the Gonadosomatic Index (GSI) of males and females of *Hyphessobrycon heterorhabdus* sampled between March 2019 and January 2020 in streams of the Guamá River basin, Eastern Amazon, State of Pará, Brazil.

Response Variable	Environmental variables	β	Std. Error	<i>t</i>	<i>p</i>
Males GSI	Dissolved Oxygen	-7.344e-04	7.429e-03	-0.099	0.9215
	Structural complexity of the substrate	-1.752e-02	1.791e-02	-0.978	0.3308
	Accumulated monthly rainfall	3.307e-05	1.575e-03	0.021	0.9833
	pH	1.213e-01	3.100e-01	0.391	0.6967
	Wetted Width	2.068e-02	3.462e-01	0.060	0.9525
	Thalweg Depth	1.474e-02	1.848e-02	0.797	0.4276
	Temperature	5.691e-01	3.036e-01	1.874	0.0643
	Electrical Conductivity	-6.558e-02	5.662e-02	-1.158	0.2500
	Stream Discharge	-5.820e+00	3.205e+00	-1.816	0.0730
Females GSI	Dissolved Oxygen	0.036129	0.015666	2.306	0.025
	Structural complexity of the substrate	-0.030476	0.039708	-0.767	0.446
	Accumulated monthly rainfall	0.002077	0.002979	0.697	0.489
	pH	0.274686	0.520665	0.528	0.600
	Wetted Width	0.627807	0.729858	0.860	0.394
	Thalweg Depth	-0.018363	0.037463	-0.490	0.626
	Temperature	0.325130	0.606015	0.537	0.594
	Electrical Conductivity	-0.157486	0.112470	-1.400	0.167
	Stream Discharge	-7.238319	5.790918	-1.250	0.217



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