

SUPPLEMENTARY MATERIAL S5

The Simper functions perform pairwise comparisons of sampling unit groups and find the contribution of each species to the average between-group Bray-Curtis dissimilarity. Although the method is called Simper, it is based on dissimilarities metrics instead of similarities (Clarke, 1993). For this study we apply Simper to check where the differences are pointed by PERMANOVA in species diet.

TABLE S5 | Results of Simper analysis with congeneric species pair.

<i>Acestrorhynchus falcirostris</i> X <i>Acestrorhynchus heterolepis</i>							
	average	sd	ratio	ava	avb	cumsum	p
Curimatidae	0.28145	0.2509	1.1219	0.524	0.7884	0.3865	0.0742
Acestrorhynchidae	0.20591	0.2303	0.8939	0.365	0.4409	0.6692	0.0137
Characidae	0.09714	0.2093	0.4641	0.251	0.065	0.8026	0.9788
Loricariidae	0.04426	0.1611	0.2748	0.16	0	0.8634	0.4775
Cynodontidae	0.03467	0.1268	0.2735	0.091	0	0.911	0.0272
Hemiodontidae	0.03436	0.1467	0.2343	0	0.1412	0.9582	0.3594
Sternopygidae	0.03047	0.1116	0.273	0.072	0	1	0.0279

REFERENCES

- **Clarke KR.** Non-parametric multivariate analyses of changes in community structure. *Austral Ecol.* 1993; 18(1):117–43. <https://doi.org/10.1111/j.1442-9993.1993.tb00438.x>



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Official Journal of the
Sociedade Brasileira de Ictiologia

HOW TO CITE THIS ARTICLE

- **Lonardoni AP, Röpke CP, Melo T, Torrente-Vilara G.** Damming in the Madeira River modifies the food spectrum of piscivorous and affects their resource partitioning. *Neotrop Ichthyol.* 2021; 19(3):e210087. <https://doi.org/10.1590/1982-0224-2021-0087>