

**TABLE S4** | MANOVA post-hoc (pairwise) comparisons to test differences in the functional space occupied by each fish family.

Family 1	Family 2	p.value
Auchenipteridae	Anostomidae	0.0021
Bryconidae	Anostomidae	0.0012
Bryconidae	Auchenipteridae	0.0012
Curimatidae	Anostomidae	0.0012
Curimatidae	Auchenipteridae	0.0012
Curimatidae	Bryconidae	0.0012
Cynodontidae	Anostomidae	0.0021
Cynodontidae	Auchenipteridae	0.0012
Cynodontidae	Bryconidae	0.0012
Cynodontidae	Curimatidae	0.0012
Doradidae	Anostomidae	0.0012
Doradidae	Auchenipteridae	0.0012
Doradidae	Bryconidae	0.0012
Doradidae	Curimatidae	0.0012
Doradidae	Cynodontidae	0.0012
Hemiodontidae	Anostomidae	0.0012
Hemiodontidae	Auchenipteridae	0.0012
Hemiodontidae	Bryconidae	0.0012
Hemiodontidae	Curimatidae	0.0012
Hemiodontidae	Cynodontidae	0.0021
Hemiodontidae	Doradidae	0.0012
Pimelodidae	Anostomidae	0.0012
Pimelodidae	Auchenipteridae	0.0012
Pimelodidae	Bryconidae	0.0012
Pimelodidae	Curimatidae	0.0012
Pimelodidae	Cynodontidae	0.0012
Pimelodidae	Doradidae	0.0760
Pimelodidae	Hemiodontidae	0.0012
Pristigasteridae	Anostomidae	0.0012
Pristigasteridae	Auchenipteridae	0.0012
Pristigasteridae	Bryconidae	0.0012
Pristigasteridae	Curimatidae	0.0012
Pristigasteridae	Cynodontidae	0.0021
Pristigasteridae	Doradidae	0.0012
Pristigasteridae	Hemiodontidae	0.0031
Pristigasteridae	Pimelodidae	0.0012
Prochilodontidae	Anostomidae	0.0021
Prochilodontidae	Auchenipteridae	0.0012
Prochilodontidae	Bryconidae	0.0012
Prochilodontidae	Curimatidae	0.0012



TABLE S4 | (Continued)

Family 1	Family 2	p.value
Prochilodontidae	Cynodontidae	0.0012
Prochilodontidae	Doradidae	0.0012
Prochilodontidae	Hemiodontidae	0.0041
Prochilodontidae	Pimelodidae	0.0012
Prochilodontidae	Pristigasteridae	0.0021
Serrasalminae	Anostomidae	0.0012
Serrasalminae	Auchenipteridae	0.0012
Serrasalminae	Bryconidae	0.0012
Serrasalminae	Curimatidae	0.0012
Serrasalminae	Cynodontidae	0.0012
Serrasalminae	Doradidae	0.0012
Serrasalminae	Hemiodontidae	0.0012
Serrasalminae	Pimelodidae	0.0012
Serrasalminae	Pristigasteridae	0.0012
Serrasalminae	Prochilodontidae	0.0012
Triporthidae	Anostomidae	0.0012
Triporthidae	Auchenipteridae	0.0012
Triporthidae	Bryconidae	0.0021
Triporthidae	Curimatidae	0.0012
Triporthidae	Cynodontidae	0.0012
Triporthidae	Doradidae	0.0012
Triporthidae	Hemiodontidae	0.0012
Triporthidae	Pimelodidae	0.0012
Triporthidae	Pristigasteridae	0.0012
Triporthidae	Prochilodontidae	0.0012
Triporthidae	Serrasalminae	0.0012



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