Supplementary file S1. Mean ± S.E. of the functional traits for each fish species found in Tramandaí River basin. F, occurrence (number of lakes) n, number of individuals measured; Ls/Bd, ratio of the standard length to body depth; Pl/Pd, ratio of length to depth of the pectoral fin; Cl/Cd, ratio of length to depth of the caudal fin; D/Lt, ratio between eye diameter and total length; Og/Lt, ratio between oral gape and total length; Lt.máx, maximum length reached by species (mm); TC, trophic category: 1 – invertivorous, 2 – planktophagous, 3 – piscivorous, 4 – omnivorous, 5 – benthophagous, 6 – detritivorous, 7 – insectivorous; Cshape, caudal fin shape.

Species	F	n	Ls/Bd	Pl/Pd	Cl/Cd	D/Lt	Og/Lt	Lt.máx	TC1	TC2	TC3	TC4	TC5	TC6	TC7	Cshape
Atherinella brasiliensis (Quoy & Gaimard, 1825)	2	4	4.79 ± 0.10	2.28 ± 0.22	1.08 ± 0.03	0.05 ± 0.001	0.05 ± 0.007	220	1	1	0	0	0	0	0	forked
Acestrorhynchus pantaneiro Menezes, 1992	13	32	4.04 ± 0.05	4.41 ± 0.18	0.93 ± 0.02	0.04 ± 0.002	0.09 ± 0.004	253	0	0	1	0	0	0	0	emarginate
Astyanax eigenmanniorum (Cope, 1894)	17	15	2.53 ± 0.05	3.64 ± 0.22	1.32 ± 0.05	0.06 ± 0.002	0.07 ± 0.005	202	0	0	0	1	0	0	0	forked
Astyanax fasciatus (Cuvier, 1819)	28	61	2.68 ± 0.01	4.73 ± 0.14	1.32 ± 0.02	0.06 ± 0.001	0.06 ± 0.002	227	0	0	0	1	0	0	0	forked
Astyanax jacuhiensis (Cope, 1894)	15	9	2.25 ± 0.03	3.57 ± 0.37	1.27 ± 0.06	0.06 ± 0.003	0.07 ± 0.004	206	0	0	0	1	0	0	0	forked
Astyanax sp.*	27	45	2.66 ± 0.02	4.78 ± 0.14	1.29 ± 0.02	0.07 ± 0.001	0.07 ± 0.002	214	0	0	0	1	0	0	0	forked
Australoheros facetus (Jenyns, 1842)	12	12	2.03 ± 0.02	1.87 ± 0.04	1.33 ±0.06	0.07 ± 0.002	0.09 ± 0.004	215	0	0	0	0	1	0	0	rounded
Brevoortia pectinata (Jenyns, 1842)	1	12	2.62 ± 0.02	3.44 ± 0.14	1.13 ± 0.04	0.05 ± 0.001	0.11 ± 0.002	254	0	1	0	0	0	0	0	forked
Centropomus paralellus Poey, 1860	2	1	3.63	2.39	1.15	0.05	0.08	285	1	0	1	0	0	0	0	forked
Citharichthys macrops Dresel, 1885	1	2	13.17 ± 0.16	0.97 ± 0.10	1.15 ± 0.03	0.60 ± 0.017	0.06 ± 0.005	230	1	0	1	0	0	0	0	rounded
Charax stenopterus (Cope, 1894)	14	9	2.50 ± 0.02	3.45 ± 0.14	1.30 ± 0.06	0.06 ± 0.001	0.08 ± 0.005	211	1	0	0	0	0	0	0	forked
Cichlasoma portalegrensis (Hensel, 1870)	1	3	1.92 ± 0.02	2.61 ± 0.02	1.38 ± 0.04	0.08 ± 0.006	0.07 ± 0.001	201	0	0	0	1	1	0	0	rounded
Corydoras paleatus (Jenyns, 1842)	3	4	2.76 ± 0.03	3.93 ± 0.32	1.28 ± 0.04	0.04 ± 0.001	0.06 ± 0.004	190	0	1	0	0	0	0	0	forked
Crenicichla lepidota Heckel, 1840	15	9	4.01 ± 0.08	2.21 ± 0.05	1.25 ± 0.07	0.05 ± 0.002	0.08 ± 0.003	225	1	0	1	0	0	0	0	rounded
Crenicichla maculata Kullander & Lucena, 2006	6	7	4.58 ± 0.15	2.48 ± 0.16	1.15 ± 0.08	0.04 ± 0.004	0.07 ± 0.006	232	1	0	1	0	0	0	0	rounded
Cyanocharax alburnus (Hensel, 1870)	3	2	3.14 ± 0.14	3.58 ± 0.09	1.28 ± 0.11	0.05 ± 0.001	0.04 ± 0.001	101	0	0	0	1	1	0	0	forked
Cyphocharax voga (Hensel, 1870)	35	103	2.91 ± 0.01	3.52 ± 0.09	1.27 ± 0.02	0.05 ± 0.001	0.05 ± 0.001	235	0	0	0	0	1	1	0	forked
Eucinostomus argenteus Baird & Girard, 1855	1	5	2.93 ± 0.08	2.89 ± 0.09	1.27 ± 0.05	0.07 ± 0.002	0.06 ± 0.004	230	0	0	0	0	1	0	0	forked
Eucinostomus melanopterus (Bleeker, 1863)	2	2	2.91 ± 0.06	2.79 ± 0.04	1.32 ± 0.11	0.07 ± 0.009	0.05 ± 0.001	247	0	0	0	0	1	0	0	forked
Elops saurus Linnaeus, 1766	1	3	5.46 ± 0.29	7.15 ± 1.15	1.60 ± 0.06	0.04 ± 0.002	0.07 ± 0.001	292	1	0	1	0	0	0	0	forked
Genidens genidens (Cuvier, 1829)	3	16	5.00 ± 0.09	6.95 ± 0.55	1.40 ± 0.06	0.04 ± 0.002	0.06 ± 0.003	254	0	0	0	1	0	0	0	forked
Geophagus brasiliensis (Quoy & Gaimard, 1824)	34	69	2.39 ± 0.16	2.33 ± 0.03	1.29 ± 0.02	0.06 ± 0.001	0.07 ± 0.001	244	1	0	0	0	1	0	0	truncated
Gymnogeophagus gymnogenys (Hensel, 1870)	4	2	2.49 ± 0.09	3.35 ± 0.26	1.08 ± 0.06	0.06 ± 0.001	0.08 ± 0.002	217	1	0	0	0	1	0	0	emarginate
Gymnogeophagus lacustres Reis & Malabarba, 1988	11	11	2.41 ± 0.04	2.69 ± 0.21	1.24 ± 0.06	0.05 ± 0.002	0.07 ± 0.002	226	1	0	0	0	1	0	0	emarginate
Gymnogeophagus rhabdotus (Hensel, 1870)	3	4	2.21 ± 0.04	3.37 ± 0.21	1.78 ± 0.08	0.07 ± 0.002	0.08 ± 0.011	208	1	0	0	0	1	0	0	emarginate
Hoplias malabaricus (Bloch, 1794)	31	50	4.31 ± 0.04	4.34 ± 0.16	1.21 ± 0.02	0.03 ± 0.001	0.08 ± 0.002	269	0	0	1	0	0	0	0	rounded
Hoplosternum littorale (Hancock, 1828)	17	15	3.09 ± 0.03	6.17 ± 0.42	1.17 ± 0.05	0.02 ± 0.001	0.06 ± 0.003	234	0	0	0	1	1	0	0	forked
Hyporhamphus unifasciatus (Ranzani, 1841)	1	1	9.29	2.74	1.18	0.02	0.04	247	0	0	0	1	0	0	0	forked
Hyphessobrycon luetkenii (Boulenger, 1887)	14	15	2.53 ± 0.05	4.01 ± 0.17	1.42 ± 0.05	0.06 ± 0.002	0.06 ± 0.003	201	0	0	0	1	0	0	0	forked
Leporinus obtusidens (Valenciennes, 1837)	1	3	3.43 ± 0.01	5.64 ± 0.13	0.83 ± 0.06	0.05 ± 0.003	0.05 ± 0.002	288	0	0	0	1	0	0	0	forked
Loricariichthys anus (Valenciennes, 1835)	30	49	8.95 ± 0.09	7.83 ± 0.39	1.75 ± 0.06	0.02 ± 0.001	0.04 ± 0.002	266	0	0	0	0	1	1	0	semilunar
Lycengraulis grossidens (Spix & Agassiz, 1829)	17	36	4.37 ± 0.04	4.57 ± 0.21	1.17 ± 0.02	0.04 ± 0.001	0.09 ± 0.002	242	0	1	1	0	0	0	0	forked
Micropogonias furnieri (Desmarest, 1823)	2	11	3.52 ± 0.11	2.63 ± 0.22	1.38 ± 0.13	0.05 ± 0.004	0.05 ± 0.004	277	1	0	0	0	0	0	0	truncated
Mugil liza Valenciennes, 1836	7	28	4.15 ± 0.04	1.43 ± 0.04	1.32 ± 0.03	0.04 ± 0.001	0.04 ± 0.002	290	0	0	0	0	0	1	0	forked
Mugil curema Valenciennes, 1836	1	7	3.91 ± 0.05	1.45 ± 0.11	1.35 ± 0.03	0.05 ± 0.001	0.06 ± 0.002	295	0	0	0	1	0	1	0	forked
Odontesthes argentinensis (Valenciennes, 1835)	1	2	5.25 ± 0.02	2.75 ± 0.29	1.29 ± 0.12	0.03 ± 0.001	0.04 ± 0.002	262	0	0	0	0	1	0	0	forked

Odontesthes bonariensis (Valenciennes, 1835)	1	1	5.59	2.02	1.21	0.03	0.03	271	1	0	1	0	0	0	0	forked
Odontesthes bicudo Malabarba & Dyer, 2002	9	6	5.77 ± 0.21	2.24 ± 0.15	1.19 ± 0.06	0.04 ± 0.001	0.04 ± 0.001	233	0	0	1	0	0	0	0	forked
Odontesthes piquava Malabarba & Dyer, 2002	6	6	5.10 ± 0.15	3.13 ± 0.23	1.15 ± 0.05	0.05 ± 0.001	0.05 ± 0.002	227	0	0	0	0	0	0	1	forked
Odontesthes ledae Malabarba & Dyer, 2002	9	28	5.37 ± 0.09	2.40 ± 0.07	1.22 ± 0.03	0.04 ± 0.001	0.04 ± 0.002	234	0	1	0	0	0	0	0	forked
Oligosarcus jenynsii (Günther, 1864)	31	49	3.47 ± 0.03	4.77 ± 0.15	1.22 ± 0.02	0.05 ± 0.001	0.08 ± 0.002	253	0	0	1	0	0	0	1	forked
Oligosarcus robustus Menezes, 1969	26	30	3.59 ± 0.04	4.85 ± 0.22	1.17 ± 0.02	0.05 ± 0.001	0.09 ± 0.003	244	0	0	1	0	0	0	0	forked
Pimelodella australis Eigenmann, 1917	3	12	4.92 ± 0.07	3.66 ± 0.15	1.36 ± 0.04	0.04 ± 0.001	0.07 ± 0.001	215	1	0	0	0	0	0	0	forked
Platanichthys platana (Regan, 1917)	13	22	2.74 ± 0.03	3.05 ± 0.12	1.19 ± 0.03	0.05 ± 0.001	0.06 ± 0.003	204	0	1	0	0	0	0	0	forked
Pomatomus saltatrix (Linnaeus, 1766)	1	3	3.68 ± 0.12	1.71 ± 0.07	0.89 ± 0.05	0.04 ± 0.002	0.10 ± 0.002	311	1	0	1	0	0	0	0	forked
Rhamdia aff. *quelen* (Quoy & Gaimard, 1824)	12	5	4.58 ± 0.14	3.32 ± 0.40	1.04 ± 0.06	0.02 ± 0.002	0.08 ± 0.007	259	0	0	0	1	1	0	0	forked
Rineloricaria quadrensis Reis, 1983	6	10	11.79 ± 0.55	8.01 ± 0.58	1.90 ± 0.18	0.01 ± 0.001	0.03 ± 0.002	219	0	0	0	0	1	0	0	semilunar
Trachelyopterus lucenai Bertoletti, Pezzi da Silva & Pereira, 1995	24	17	3.67 ± 0.10	4.19 ± 0.32	0.72 ± 0.04	0.03 ± 0.001	0.08 ± 0.004	234	0	0	1	0	0	0	1	truncated
Trachinotus carolinus (Linnaeus, 1766)	1	6	1.91 ± 0.03	1.39 ± 0.05	0.62 ± 0.03	0.05 ± 0.003	0.07 ± 0.003	280	1	0	1	0	0	0	0	forked

* Species not yet described.