

TABLE S1 | Table with taxonomic framework of ichthyoplanktonic organisms identified through the COI gene by means of DNA barcoding (B) and DNA metabarcoding (M). *Species identified only in the pilot project; F.O. (Frequency of occurrence) only for DNA barcoding technique; 1- Geneious; 2- Megahit; 3- MetaSpades.

Taxa	Technique	F.O. %	Assemblers
CHARACIFORMES			
Acestrorhamphidae			
<i>Astyanax lacustris</i> (Lütken, 1875)	B, M	41.7	1
<i>Astyanax trierythropterus</i> Godoy, 1970	M		1, 2, 3
<i>Astyanax</i> sp.	M		2, 3
<i>Megalampodus eques</i> (Steindachner, 1882)	B, M	16.7	1, 2, 3
<i>Oligosarcus paranensis</i> Menezes & Géry, 1983	M		2, 3
<i>Oligosarcus pinto</i> (Amaral Campos, 1945)	M		3
<i>Psalidodon biotae</i> (Castro & Vari, 2004)	M		1
<i>Psalidodon fasciatus</i> (Cuvier, 1819)	B, M	16.7	3
<i>Psalidodon schubarti</i> (Britski, 1964)	B	25.0	
Anostomidae			
<i>Brevidens striatus</i> (Kner, 1858)	B	8.3	
<i>Leporellus vittatus</i> (Valenciennes, 1850)	B, M	16.7	2, 3
<i>Leporinus friderici</i> (Bloch, 1794)	B, M	58.3	1, 2
<i>Leporinus octofasciatus</i> Steindachner, 1915	B, M	33.3	1, 2, 3
<i>Leporinus paranensis</i> Garavello & Britski, 1987	B, M	8.3	1
<i>Megaleporinus elongatus</i> (Valenciennes, 1850)	M		2, 3
<i>Megaleporinus obtusidens</i> (Valenciennes, 1837)	B, M	66.7	1, 2, 3
<i>Megaleporinus piavussu</i> (Britski, Birindelli & Garavello, 2012)	B, M	8.3	1
<i>Schizodon nasutus</i> (Kner, 1858)	B	25.0	
Bryconidae			
<i>Salminus brasiliensis</i> (Cuvier, 1816)	B*, M		1
Characidae			
<i>Galeocharax gulo</i> (Cope, 1870)	B	58.3	
<i>Galeocharax humeralis</i> (Valenciennes, 1834)	M		3
<i>Galeocharax knerii</i> (Steindachner, 1879)	M		1
Cheirodontinae			
<i>Odontostilbe</i> sp.	M		1
Cheirodontinae I	B	66.7	
Cheirodontinae II	B	16.7	
Crenuchidae			
<i>Characidium zebra</i> Eigenmann, 1909	B*, M		1, 2, 3
Curimatidae			
<i>Cyphocharax naegeli</i> (Steindachner, 1881)	B, M	8.3	1, 2, 3
<i>Steindachnerina insculpta</i> (Fernández-Yépez, 1948)	B, M	33.3	1, 2
Erythrinidae			
<i>Hoplias malabaricus</i> (Bloch, 1794)	B	25.0	



TABLE S1 | (Continued)

Taxa	Technique	F.O. %	Assemblers
Iguanodectidae			
<i>Bryconops caudomaculatus</i> (Günther, 1864)	M		3
<i>Bryconops</i> sp.	M		2, 3
Parodontidae			
<i>Apareiodon affinis</i> (Steindachner, 1879)	B, M	33.3	1, 2, 3
<i>Apareiodon piracicabae</i> (Eigenmann, 1907)	B, M	25.0	1, 2
<i>Parodon nasus</i> Kner, 1859	B*		
Prochilodontidae			
<i>Prochilodus costatus</i> Valenciennes, 1850	M		3
<i>Prochilodus lineatus</i> (Valenciennes, 1837)	B, M	41.7	1, 2, 3
Serrasalminae			
<i>Serrasalmus maculatus</i> Kner, 1858	B	8.3	
Stevardiidae			
<i>Bryconamericus turiuba</i> Langeani, Lucena, Pedrini & Tarelho-Pereira, 2005	B	50.0	
<i>Bryconamericus</i> sp.	M		2, 3
<i>Piabarchus stramineus</i> (Eigenmann, 1908)	M		1
<i>Piabina argentea</i> Reinhardt 1867	B	25.0	
SILURIFORMES			
Auchenipteridae			
<i>Megalechis thoracata</i> (Valenciennes, 1840)	B	8.3	
<i>Tatia neivai</i> (Ihering, 1930)	M		1, 2, 3
Doradidae			
<i>Rhinodoras dorbignyi</i> (Kner, 1855)	B	8.3	
Heptapteridae			
<i>Imparfinis mirini</i> Haseman, 1911	B	8.3	
<i>Phenacorhamdia tenebrosa</i> (Schubart, 1964)	B, M	8.3	1, 2, 3
<i>Pimelodella meeki</i> Eigenmann, 1910	B, M	25.0	1
<i>Pimelodella</i> sp.	M		2, 3
Loricariidae			
<i>Hypostomus</i> sp.	M		2
<i>Pterygoplichthys ambrosettii</i> (Holmberg, 1893)	B	8.3	
<i>Rhinelepis aspera</i> Spix & Agassiz, 1829	B	8.3	
Pimelodidae			
<i>Iheringichthys labrosus</i> (Lutken, 1874)	B*, M		1, 2, 3
<i>Pimelodus fur</i> (Lutken, 1874)	M		1, 2, 3
<i>Pimelodus maculatus</i> Lacepède, 1803	B, M	83.3	1, 2, 3
<i>Pimelodus microstoma</i> Steindachner, 1877	B, M	58.3	1
<i>Pirirampus pirinampu</i> (Spix & Agassiz, 1829)	B, M	8.3	1, 2, 3
<i>Pseudoplatystoma corruscans</i> (Spix & Agassiz, 1829)	B, M	50.0	1, 2, 3
<i>Pseudoplatystoma reticulatum</i> Eigenmann & Eigenmann, 1889	B	41.7	

TABLE S1 | (Continued)

Taxa	Technique	F.O.%	Assemblers
<i>Sorubim lima</i> (Bloch & Schneider, 1801)	B, M	50.0	1, 2, 3
Pseudopimelodidae			
<i>Pseudopimelodus mangurus</i> (Valenciennes, 1835)	B	41.7	
Trichomycteridae			
<i>Parastegophilus maculatus</i> (Steindachner, 1879)	M		2
<i>Parastegophilus paulensis</i> Miranda Ribeiro, 1918	M		2
GYMNOTIFORMES			
Apteronotidae			
<i>Apteronotus acidops</i> Triques, 2011	M		2
<i>Apteronotus</i> sp.	M		3
Sternopygidae			
<i>Eigenmannia virescens</i> (Valenciennes, 1836)	B	16.7	
PERCIFORMES			
Scianidae			
<i>Plagioscion squamosissimus</i> (Heckel, 1840)	M		1, 2, 3
SYNBRANCHIFORMES			
Synbranchidae			
<i>Synbranchus marmoratus</i> Bloch, 1795	B	8.3	

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