

TABLE S1 | COI gene sequences of *Ancistrus* and *Hemiancistrus* from the present work and Genbank were used for K2P distance calculations and gene tree construction.

Species	Haplotype	Location	GenBank	Reference
<i>A. aguaboensis</i>	1	Brazil: Ribeirão Cafuringa, tributary of the upper Tocantins River, DF.	MK464024.1	Bagley <i>et al.</i> (2019)
<i>A. aguaboensis</i>	2	Brazil: Ribeirão Cafuringa, tributary of the upper Tocantins River, DF.	MK464025.1	Bagley <i>et al.</i> (2019)
<i>A. aguaboensis</i>	3	Brazil: Ribeirão Cafuringa, tributary of the upper Tocantins River, DF.	MK464026.1	Bagley <i>et al.</i> (2019)
<i>A. brevipinnis</i>	4	Rio Grande do Sul: Caraá River, Sinos basin.	MG825021.1	Buckup <i>et al.</i> (2018) (Unpublished)
<i>A. brevipinnis</i>	5		EU359402.1	Cramer <i>et al.</i> (2007)
<i>A. chagresi</i>	6	Panamá: Rio Cocle del Norte.	MG936656.1	Birmingham <i>et al.</i> (2018) (Unpublished)
<i>A. cf. leucostictus</i>	7	Maroni basin, Suriname.	MZ051717.1	Papa <i>et al.</i> (2021)
<i>A. cf. leucostictus</i>	8	Maroni basin, Suriname.	MZ052064.1	Papa <i>et al.</i> (2021)
<i>A. cf. leucostictus</i>	9	Maroni basin, Suriname.	MZ051870.1	Papa <i>et al.</i> (2021)
<i>A. cirrhosus</i>	10	Upper Paraná basin.	GU701863.1	Pereira <i>et al.</i> (2013)
<i>A. cirrhosus</i>	11	Upper Paraná basin.	GU701865	Pereira <i>et al.</i> (2013)
<i>A. cirrhosus</i>	12	Upper Paraná basin.	JN988666.1	Pereira <i>et al.</i> (2013)
<i>A. cryptophthalmus</i>	13		JX477641.1	Carvalho <i>et al.</i> (2012) (Unpublished)
<i>A. cryptophthalmus</i>	14		JX477627	Carvalho (2012) (Unpublished)
<i>A. cryptophthalmus</i>	15		JX477639.1	Carvalho (2012) (Unpublished)
<i>A. dolichopterus</i>	16	The lower Nhamunda River, Brazil.	KP772593.1	Collins <i>et al.</i> (2015)
<i>A. multispinis</i>	17	Rio de Janeiro: Mage, Cachoeira das Andorinhas, Roncador River.	MG825030.1	Buckup <i>et al.</i> (2018). (Unpublished)
<i>A. spinosus</i>	18	Panamá: Dariem, Tuirá River, Membrillo River.	MG936657.1	Birmingham <i>et al.</i> (2018). (Unpublished)
<i>A. temminckii</i>	19	Suriname: Sipaliwini, Tapanahony River, Paloemeu River, Weyu Camp.	MZ051375.1	Papa <i>et al.</i> (2021).
<i>A. temminckii</i>	20	Maroni basin, Suriname.	MZ051822.1	Papa <i>et al.</i> (2021)
<i>H. aspidolepis</i>	21		MG496163.1	Birmingham <i>et al.</i> (2017) (Unpublished)
<i>H. aspidolepis</i>	22		MG937010.1	Birmingham <i>et al.</i> (2018) (Unpublished)
<i>H. aspidolepis</i>	23		MG937011.1	Birmingham <i>et al.</i> (2018)
<i>H. aspidolepis</i>	24		MG937012.1	Birmingham <i>et al.</i> (2018)
<i>H. aspidolepis</i>	25		MG937009.1	Birmingham <i>et al.</i> (2018)
<i>H. medians</i>	26	Suriname: Sipaliwini, Tapanahony River, Paloemeu River, Weyu Camp.	MZ051687.1	Papa <i>et al.</i> (2021)
<i>H. medians</i>	27	Guianas	JF746999.1	Fisch-Muller <i>et al.</i> (2011)
<i>H. medians</i>	28	Maroni basin	MZ052003.1	Papa <i>et al.</i> (2021)
<i>H. subviridis</i>	29		EU359411.1	Cramer <i>et al.</i> (2007)

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