

S3 | ABGD results discriminated by species groups (= lineage). N = number of OTUs belonging to each lineage found. New species discrimination in bold.

Partition with prior maximal distance $P = 0.016$

Distance K80 Kimura MinSlope = 1.500000

Group[1] n: 1 ;id: MK861710.1 *Loricaria* cf. *simillima*

Group[2] n: 6 ;id: MZ051209.1 *Loricaria* aff. *nickeriensis* MZ051588.1 *Loricaria* aff. *nickeriensis* MZ051111.1 *Loricaria* aff. *nickeriensis* MZ051265.1 *Loricaria* aff. *nickeriensis* MZ051906.1 *Loricaria* aff. *nickeriensis* MZ051100.1 *Loricaria* aff. *nickeriensis*

Group[3] n: 1 ;id: OP407983 *Loricaria simillima*

Group[4] n: 2 ;id: OP407987 *Rhadinoloricaria* cf. *condei* OP407988 *Rhadinoloricaria condei*

Group[5] n: 1 ;id: OP407990 *Spatuloricaria caquetae*

Group[6] n: 1 ;id: OP407989 *Rineloricaria* cf. *lanceolata*

Group[7] n: 2 ;id: OP407977 *Loricaria nimairaco* OP407978 *Loricaria nimairaco*

Group[8] n: 1 ;id: ON831498 *Harttia dissidens*

Group[9] n: 4 ;id: MZ052016.1 *Loricaria cataphracta* MZ051968.1 *Loricaria cataphracta* MZ051232.1 *Loricaria cataphracta* MZ050922.1 *Loricaria cataphracta*

Group[10] n: 5 ;id: KP772582.1 *Loricaria* cf. *cataphracta* OP407979 *Loricaria* cf. *cataphracta* OP407980 *Loricaria* cf. *cataphracta* OP407981 *Loricaria* cf. *cataphracta* OP407982 *Loricaria* cf. *cataphracta*

Group[11] n: 2 ;id: OP407984 *Loricaria simillima* OP407985 *Loricaria simillima*

Group[12] n: 1 ;id: OP407986 *Loricaria* sp. Paraguay



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