

**S1** | bPTP analysis results, bold values indicate delimitation of *Loricaria nimairaco* from congeners (ML and BI). Support values = Posterior probabilities.

# Maximun likelihood partition (ML)

Species 1 (support = 1.000)

*Harttia\_dissidens\_ON831498*

Species 2 (support = 1.000)

*Rineloricaria\_cf.\_lanceolata\_OP407989'*

Species 3 (support = 1.000)

*'Loricaria\_simillima\_OP407983'*

Species 4 (support = 1.000)

*'Loricaria\_simillima\_OP407985'*

Species 5 (support = 1.000)

*'Loricaria\_simillima\_OP407984'*

Species 6 (support = 1.000)

*Spatuloricaria\_caquetae\_OP407990*

Species 7 (support = 0.951)

*'Rhadinoloricaria\_cf.\_condei\_OP407988'*

Species 8 (support = 0.951)

*Rhadinoloricaria\_condei\_OP407987*

Species 9 (support = 0.920)

*'Loricaria\_cataphracta\_MZ051968.1','Loricaria\_cataphracta\_MZ051232.1','Loricaria\_cataphracta\_MZ050922.1','Loricaria\_cataphracta\_MZ052016.1','Loricaria\_sp.\_Paraguay\_OP407986','Loricaria\_cf.\_cataphracta\_OP407979','Loricaria\_cf.\_cataphracta\_OP407982','Loricaria\_cataphracta\_KP772582.1','Loricaria\_cf.\_cataphracta\_OP407980','Loricaria\_cf.\_cataphracta\_OP407981'*

Species 10 (support = 0.557)

*'Loricaria\_aff.\_nickeriensis\_MZ051100.1','Loricaria\_aff.\_nickeriensis\_MZ051265.1','Loricaria\_aff.\_nickeriensis\_MZ051906.1','Loricaria\_aff.\_nickeriensis\_MZ051588.1','Loricaria\_aff.\_nickeriensis\_MZ051111.1','Loricaria\_aff.\_nickeriensis\_MZ051209.1'*

Species 11 (support = 0.787)

*'Loricaria\_nimairaco\_n\_sp\_OP407978','Loricaria\_nimairaco\_n\_sp\_OP407977'*

Species 12 (support = 0.871)

*'Loricaria\_cf.\_simillima\_MK861710.1'*

# Most supported partition found by simple heuristic search (BI)

Species 1 (support = 1.000)

*Harttia\_dissidens\_ON831498*

Species 2 (support = 1.000)

'*Rineloricaria*\_cf.\_*lanceolata*\_OP407989'

Species 3 (support = 1.000)  
'*Loricaria*\_simillima\_OP407983'

Species 4 (support = 1.000)  
'*Loricaria*\_simillima\_OP407985'

Species 5 (support = 1.000)  
'*Loricaria*\_simillima\_OP407984'

Species 6 (support = 1.000)  
*Spatuloricaria*\_caquetae\_OP407990

Species 7 (support = 0.920)  
'*Loricaria*\_cataphracta\_MZ051968.1', '*Loricaria*\_cataphracta\_MZ051232.1', '*Loricaria*\_cataphracta\_MZ050922.1', '*Loricaria*\_cataphracta\_MZ052016.1', '*Loricaria*\_sp.\_Paraguay\_OP407986', '*Loricaria*\_cf.\_cataphracta\_OP407979', '*Loricaria*\_cf.\_cataphracta\_OP407982', '*Loricaria*\_cataphracta\_KP772582.1', '*Loricaria*\_cf.\_cataphracta\_OP407980', '*Loricaria*\_cf.\_cataphracta\_OP407981

Species 8 (support = 0.557)  
'*Loricaria*\_aff.\_nickeriensis\_MZ051100.1', '*Loricaria*\_aff.\_nickeriensis\_MZ051265.1', '*Loricaria*\_aff.\_nickeriensis\_MZ051906.1', '*Loricaria*\_aff.\_nickeriensis\_MZ051588.1', '*Loricaria*\_aff.\_nickeriensis\_MZ051111.1', '*Loricaria*\_aff.\_nickeriensis\_MZ051209.1'

Species 9 (support = 0.951)  
'*Rhadinoloricaria*\_cf.\_condei\_OP407988'

Species 10 (support = 0.951)  
*Rhadinoloricaria*\_condei\_OP407987

Species 11 (support = 0.787)  
'*Loricaria*\_nimairaco\_n\_sp\_OP407978', '*Loricaria*\_nimairaco\_n\_sp\_OP407977'

Species 12 (support = 0.871)  
'*Loricaria*\_cf.\_simillima\_MK861710.1'



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