

TABLE S3 | Fossil calibration information used in the time tree.

Code	Taxa calibrated	Min age/offset (Ma)	Max age (Ma)	Mean	Species/Fossil calibration	Species used for node calibration in treePL
MRCA_1	Characidae + Chalceidae	23	66,3	11,75	Paleotetra	Carlana_eigenmanni Chalceus_epakros
MRCA_2	Base of Alestoidea without Hepstidae	48,6	60,4	3,2	Alestoides eocaenicus	Hydrocynus_goliath Alestes_grandisquamis
MRCA_3	Hydrocynus + Micralestes [Family alestidae]	37	51,2	3,85	Genus Hydrocynus	Hydrocynus_goliath Micralestes_acutidens
MRCA_4	Root Characoidea with Curimatoidea [See Betancurt] + Alestoidea [Alestidae + Hepsetidae]	58,2	99,6	13,82	Erythrinioidea	Roestes_ogilviei Abramites_hypselonotus
MRCA_5	Hoplerythrinus + Hoplias [Family Erythrinidae]	7,2	69,9	17	Paleohoplias assisbrasiliensis	Hoplerythrinus_unitaeniatus Hoplias_malabaricus
MRCA_6	Hydrolycus + Rhaphiodon, Cynodon [Cynodontidae]	7,2	69,9	17	Cynodontid	Hydrolycus_scomberoides Rhaphiodon_vulpinus
MRCA_7	Base of Anostomidae	35	63,4	7,7	Leporinus sp.	Leporellus_vittatus Abramites_hypselonotus
MRCA_8	Abramites hypselonotus + Leporinus striatus [Anostomidae]	6	41,8	9,7	Leporinus scalabrinii	Abramites_hypselonotus Leporinus_striatus
MRCA_9	Cyphocharax + Psectrogaster with Curimata [Curimatidae]	23	66,2	11,7	Cyphocharax mosesi	Cyphocharax_spilurus Curimata_cyprinoides
MRCA_10	Apareiodon + Parodon [Parodontidae]	11,2	69,1	15,7	Paradon	Parodon_nasus Apareiodon_affinis
MRCA_11	Serrasalmus + Piaractus [Serrasalmidae]	38	62,9	6,75	pacu teeth	Serrasalmus_rhombeus Piaractus_mesopotamicus
MRCA_12	Colossoma + Mylossoma [Serrasalmidae]	17,2	43	7	Teeth and partial jaws	Colossoma_macropomum Mylossoma_duriventre
MRCA_13	Acnodon + Myloplus [Serrasalmidae]	11,2	44,4	9	myleines	Acnodon_normani Myloplus_rubripinnis



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