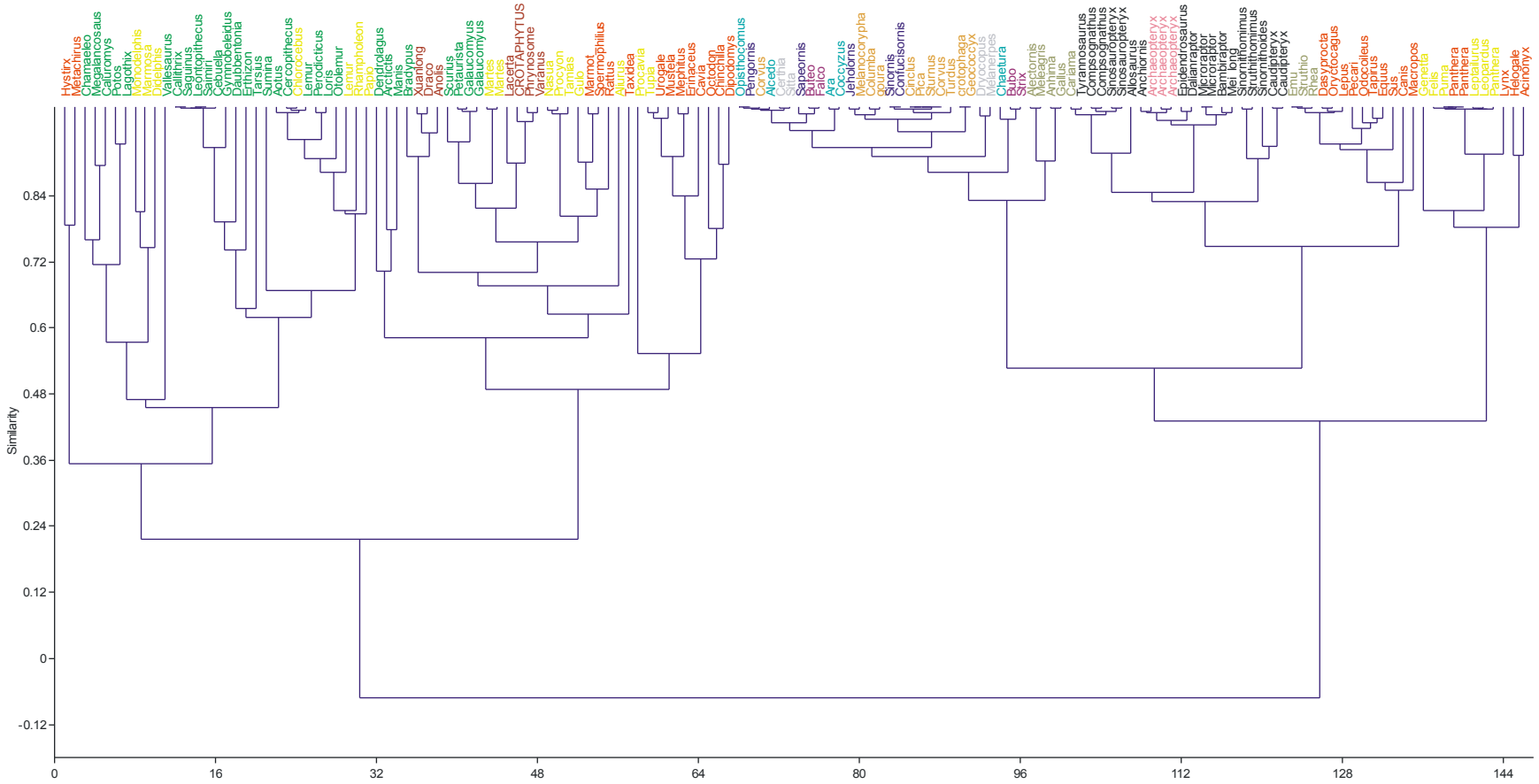
A)


Hystirx
Metachirus
Chamaeleo
Megadancosaus
Caulromys
Potos
Lagothix
Monodelphis
Marmosa
Didelphis
Vallesaurus
Callithrix
Saguinus
Leontopithecus
Saimiri
Cebuella
Gymnobeleidus
Daubbentonia
Erthizon
Tarsius
Tamarina
Aotus
Cercopithecus
Chlorocebus
Lemur
Petrodicticus
Loris
Otolemur
Lemur
Rhampholeon
Pan
Dendrolagus
Arctictis
Manis
Bradypus
Xiphomg
Tragulo
Anolis
Scurius
Petaurista
Galaucomyus
Galaucomyus
Martes
Martes
Lacerta
CROTAPHYTUS
Varanosome
Varanus
Nasua
Procyon
Tamias
Gulo
Marmot
Spermophilus
Rattus
Alurus
Taxidea
Tropidonia
Tupia
Urogale
Mustela
Mephitus
Erinaceus
Cavia
Octodgn
Chinchilla
Dipodomys
Perognathomus
Perognomis
Corvus
Alcedo
Carmia
Sula
Sapeornis
Buteo
Falco
Ara
Geococcyus
Geococcyus
Melanocorypha
Columba
Apura
Snorlis
Snorlis
Cinclus
Pica
Sturnus
Corvus
Turdus
Crotophaga
Geococcyx
Dryocopus
Melanerpes
Chaetura
Cuculo
Strix
Alectornis
Meleagris
Anhima
Gallus
Cariama
Tyrannosaurus
Compsognathus
Compsognathus
Compsognathus
Shosauropteryx
Albosaurus
Anchiornis
Archaeopteryx
Archaeopteryx
Archaeopteryx
Epidendrosaurus
Dalianraptor
Microraptor
Barrinraptor
Mei long
Sinornithomimus
Struthiomimus
Sinornithoides
Caudipteryx
Caudipteryx
Emu
Struthio
Rhea
Dasyrocota
Dryococagus
Lepus
Pecari
Odocoileus
Tapirus
Equus
Sus
Canis
Macropos
Genetta
Felis
Puma
Panthera
Panthera
Lepalurus
Leopardus
Panthera
Lynx
Helogale
Acinonyx
Similarity
0.84
0.72
0.6
0.48
0.36
0.24
0.12
0
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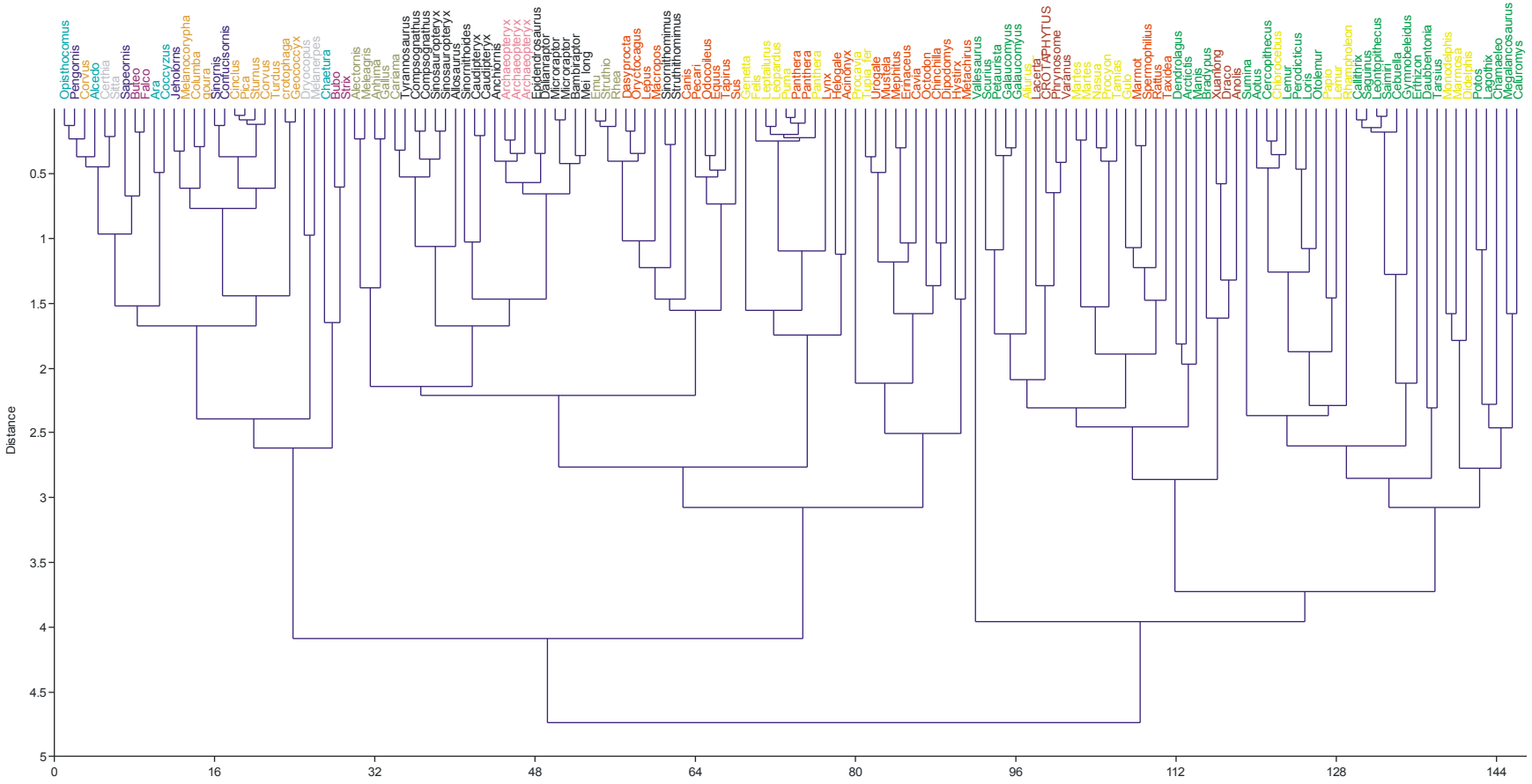
0
16
32
48
64
80
96
112
128
144

B)


Opisthocomus
Pengornis
Corvus
Aegotheles
Certhia
Sitta
Sapeornis
Buteo
Falco
Aquila
Coccyzus
Jeholornis
Melanocorypha
Columba
Coturnix
Sinornis
Confuciusornis
Cinclus
Rica
Sturnus
Corvus
Turdus
crotophaga
Geococcyx
Micropus
Melanerpes
Chaetura
Bubo
Strix
Aegocrnis
Meleagris
Anhinga
Gallus
Caraama
Tyrannosaurus
Compsognathus
Sinosauropteryx
Allosaurus
Saurornitholoides
Caudipteryx
Anchiornis
Archaeopteryx
Archaeopteryx
Archaeopteryx
Epidendrosaurus
Balaanraptor
Microraptor
Microraptor
Sinornithosaurus
Mei long
Emu
Struthio
Rhea
Dasyprocta
Oryctolagus
Lepus
Macropos
Sinornithomimus
Struthiomimus
Ovis
Pecari
Odocoileus
Equus
Tapirus
Sus
Genetta
Felis
Leptailurus
Leopardus
Panthera
Panthera
Panthera
Panthera
Lynx
Helogale
Acinonyx
Procavia
Tupaia fer
Urogale
Mustela
Meles
Erinaceus
Cavia
Octodon
Chinchilla
Hydromys
Hystrix
Metachirus
Valesaurus
Scurus
Galaurista
Galaucomyus
Galaucomyus
Aulurus
Lacerta
PROTAPHYTUS
Phrynosome
Varanus
Martes
Martes
Nasua
Procyon
Tamias
Gulo
Marmot
Spermophilus
Ratus
Tachyoryctes
Dendrolagus
Arcticitis
Manis
Xenarthrus
Xenarthrong
Draco
Anolis
Sumina
Aotus
Cercopithecus
Chlorocebus
Lemur
Perodicticus
Loris
Otolemur
Propithecus
Lemur
Rhampholeon
Calithrix
Saguinus
Leontopithecus
Saimiri
Cebuella
Gymnobeleidus
Erthizon
Dasyuromorphia
Tarsius
Monodelphis
Marmosa
Didelphis
Dasypus
Pachyrhix
Chamaeleo
Megalancosaurus
Caluromys
Distance
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
16
32
48
64
80
96
112
128
144