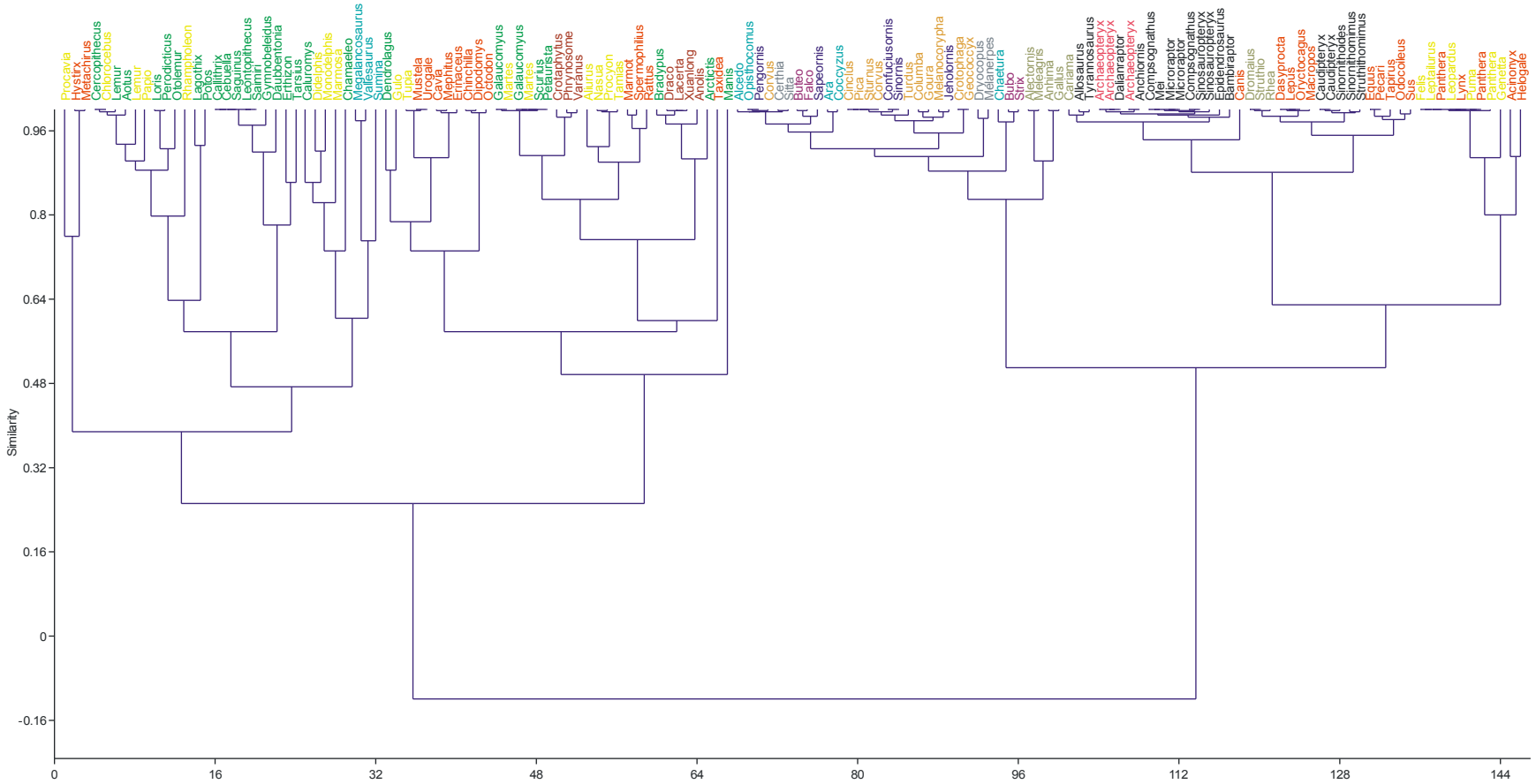
A)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Hystrix
Melachirus
Cercopithecus
Chlorocebus
Lemur
Aotus
Lemur
Fossa
Fossa
Perodicticus
Otolemur
Rhampholeon
Lagothrix
Pithecia
Callithrix
Cebuella
Saguinus
Leontopithecus
Saimiri
Saimiriboleidus
Daubbentonia
Erthizon
Tarsius
Cauromys
Dipodomys
Monodelphis
Marmosa
Chamaeleo
Megalancosaurus
Varanus
Varanus
Dendrolagus
Gulo
Tupia
Mustela
Urogale
Cavia
Mephitus
Erinaceus
Cinnictilla
Chiropomys
Octodon
Galaucomyus
Martes
Galaucomyus
Mustela
Sciurus
Petaurista
Crotaphytus
Phrynosome
Varanus
Aulus
Nasua
Procyon
Tamias
Marmot
Marmot
Ratus
Bradypus
Draco
Lacerta
Xantusia
Anolis
Arcticis
Taxidea
Manis
Alligator
Opisthocomus
Pengornis
Conus
Cernia
Bulla
Bubo
Falco
Sapornis
Ara
Coccyzus
Corvus
Pica
Sturnus
Corvus
Sonticusornis
Sonornis
Turdus
Columba
Goura
Melanocorypha
Alectornis
Columbiformes
Geococcyx
Dryocopus
Melanerpes
Chaetura
Cuculus
Strix
Alectornis
Meleagris
Anhima
Anhima
Cariama
Albosaurus
Tyrannosaurus
Archaeopteryx
Archaeopteryx
Archaeopteryx
Dalianraptor
Archaeopteryx
Anchiornis
Compsognathus
Mei
Microraptor
Microraptor
Compsognathus
Sinosauropteryx
Sinosauropteryx
Sinosauropteryx
Bambiraptor
Canis
Dromaius
Struthio
Rhea
Dasyprocta
Lepus
Oryctocagus
Macropos
Caudipteryx
Caudipteryx
Sinornithoides
Sinornithomimus
Struthiomimus
Equus
Equus
Equus
Tapirus
Odocoileus
Sus
Felis
Felis
Felis
Panthera
Leopardus
Lynx
Felis
Panthera
Panthera
Genetta
Acinonyx
Hielogale
Similarity
0.96
0.8
0.64
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16
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48
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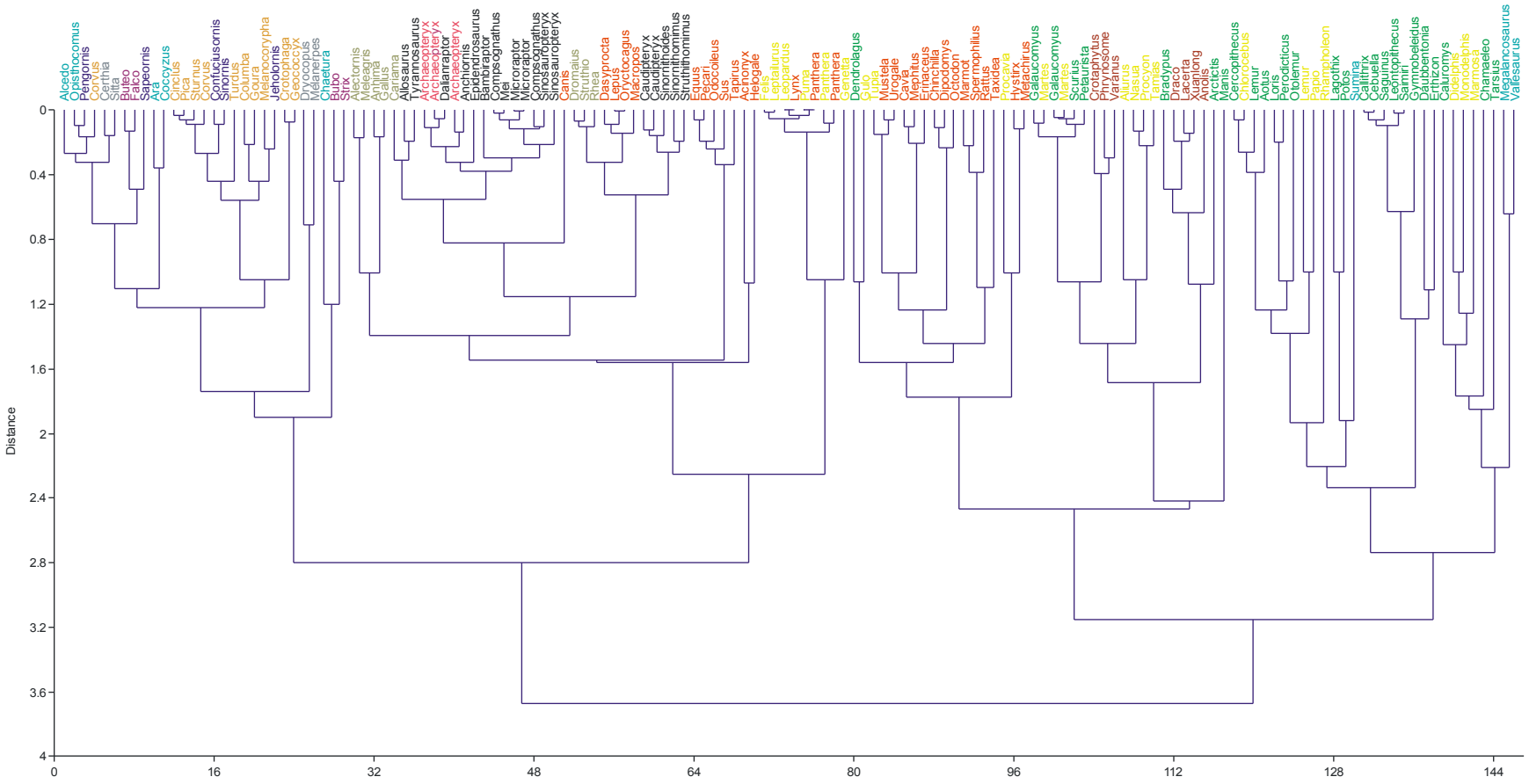
96
112
128
144

B)


Alcedo
Opisthocomus
Pengornis
Corvus
Certhia
Sitta
Buteo
Falco
Sapeornis
Aves
Coccyzus
Cinclus
Pica
Sturnus
Corvus
Confuciusornis
Sinornis
Turdus
Columba
Caprimulgus
Melanocorypha
Jeholornis
Crotophaga
Geococcyx
Tyrannosaurus
Melanornes
Chaetura
Bubo
Strix
Alectornis
Meleagris
Anhinga
Gallus
Cariama
Albsaurus
Allosaurus
Tyrannosaurus
Archaeopteryx
Archaeopteryx
Archaeopteryx
Dalianraptor
Archaeopteryx
Anchiornis
Epidendrosaurus
Bambiraptor
Compsognathus
Mei
Microraptor
Microraptor
Compsognathus
Sinosauropteryx
Sinosauropteryx
Canis
Crocodylus
Struthio
Rhea
Dasyprocta
Lepus
Procyon
Macropus
Caudipteryx
Caudipteryx
Sinornithoides
Sinornithomimus
Sinornithomimus
Equus
Pecari
Odocoileus
Sus
Tapirus
Acinonyx
Helogale
Felis
Leptailurus
Leopardus
Lynx
Felis
Panthera
Panthera
Panthera
Panthera
Dendrolagus
Gulo
Lutra
Mustela
Urocyon
Cavia
Mephitus
Erinaceus
Chinchilla
Ondatra
Octodon
Marmot
Spermophilus
Rattus
Taxidea
Procyon
Hystrix
Melachirus
Galaucomyus
Galaucomyus
Galaucomyus
Marres
Scurius
Petaurista
Crotaphytus
Phrynosome
Varanus
Alurus
Nasua
Procyon
Tamias
Bradypus
Draco
Lacerta
Xianglong
Anolis
Anguis
Manis
Cercopithecus
Chlorocebus
Lemur
Acus
Cris
Perodicticus
Oblemur
Lemur
Rano
Rhampholeon
Lagothrix
Polos
Sunnina
Callithrix
Cebuella
Saguinus
Leontopithecus
Samiri
Gymnobeleidus
Cynocephalus
Erthizon
Caluromys
Didelphis
Monodelphis
Mimosa
Chamaeleo
Tarsius
Megalancosaurus
Vallesaurus
Distance
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0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
0
16
32
48
64
80
96
112
128
144