

S5 Appendix. Bayesian tree reconstructed using the *mtDNA-Tv* dataset (220 taxa and 14,892 bp) and JC69+I+G model

Evolutionary history of Carnivora (Mammalia, Laurasiatheria) inferred from mitochondrial genomes

Alexandre Hassanin^{1*}, Géraldine Veron¹, Anne Ropiquet², Bettine Jansen van Vuuren³, Alexis Lécu⁴, Steven M. Goodman⁵, Jibrán Haider^{1,6,7}, Trung Thanh Nguyen¹

¹ Institut de Systématique, Évolution, Biodiversité (ISYEB), Sorbonne Université, MNHN, CNRS, EPHE, UA, Paris.

² Department of Natural Sciences, Faculty of Science and Technology, Middlesex University, United Kingdom.

³ Centre for Ecological Genomics and Wildlife Conservation, Department of Zoology, University of Johannesburg, South Africa.

⁴ Parc zoologique de Paris, Muséum national d'Histoire naturelle, Paris.

⁵ Field Museum of Natural History, Chicago, IL, USA.

⁶ Department of Wildlife Management, Pir Mehr Ali Shah, Arid Agriculture University Rawalpindi, Pakistan.

⁷ Forest Parks & Wildlife Department Gilgit-Baltistan, Pakistan.

* Correspondence: alexandre.hassanin@mnhn.fr

#NEXUS

[ID: 2871343750]

begin taxa;

dimensions ntax=220;

taxlabels

Tapirus_terrestris_T358
Phataginus_tricuspis_NC026780
Acinonyx_jubatus_NC005212_3
Ailuropoda_melanoleuca_NC009492_5
Ailurus_fulgens_NC011124_1
Ailurus_fulgens_styani_NC009691_1
Aonyx_cinerea_NC035814_2
Arctictis_binturong_T605_2
Arctocephalus_australis_MG023139_1
Arctocephalus_forsteri_KT693377_17
Arctocephalus_forsteri_NC004023_28
Arctocephalus_gazella_BK010918_1
Arctocephalus_pusillus_NC008417_1
Arctocephalus_townsendi_NC008420_1
Arctodus_simus_NC011116_1
Arctonyx_collaris_NC020645_1
Arctotherium_sp_NC030174_1
Atilax_paludinosus_T606_1
Bassaricyon_neblina_SRX1097850_1
Bassariscus_sumichrasti_SRX1099089_1
Bdeogale_nigripes_GLC15_1
Callorhinus_ursinus_NC008415_1
Canis_adustus_KT448271_1
Canis_anthus_NC027956_2
Canis_aureus_KT448274_1
Canis_latrans_NC008093_7
Canis_lupus_chanco_NC010340_4
Canis_lupus_familiaris_NC002008_1231
Canis_mesomelas_KT448280_1
Caracal_caracal_NC028306_1
Catopuma_badia_NC028300_1
Catopuma_temminckii_NC027115_41
Chrotogale_owstoni_T607_1
Chrysocyon_brachyurus_NC024172_1
Civettictis_civetta_GLC19_1
Civettictis_civetta_NC033378_1
Conepatus_chinga_NC042596_1
Crocuta_crocuta_NC020670_3
Crossarchus_platycephalus_C7AR66_1
Cryptoprocta_ferox_CFC13_1
Cuon_alpinus_NC013445_3
Cynictis_penicillata_T375_1
Cynogale_bennetti_KY117544_1
Cystophora_cristata_NC008427_1
Diplogale_hosei_MH464790_1
Enhydra_lutris_NC009692_1
Erignathus_barbatus_NC008426_1
Eumetopias_jubatus_NC004030_10
Eupleres_goudotii_D128_1
Felis_catus_NC001700_2
Felis_chaus_NC028307_1
Felis_margarita_NC028308_1
Felis_nigripes_NC028309_1
Felis_silvestris_lybica_KP202275_4
Fossa_fossana_D350_1

Galerella_sanguinea_T378_1
Galictis_vittata_T412_1
Galidia_elegans_D146_1
Galidictis_fasciata_DM333_1
Genetta_abyssinica_MG489822_1
Genetta_genetta_T297_1
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Halichoerus_grypus_NC001602_2
Helarctos_malayanus_NC009968_2
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Herpestes_brachyurus_KY117547_1
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Herpestes_javanicus_T413_1
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Nandinia_binotata_NC024567_1
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Neophoca_cinerea_NC008419_1
Neovison_vison_NC020641_3
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Potos_flavus_T414_1
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Prionailurus_planiceps_NC028312_6
Prionailurus_rubiginosus_NC028304_2
Prionailurus_viverrinus_NC028305_1
Prionodon_linsang_ERR2391707_1
Prionodon_pardicolor_NC024569_2

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Procyon_lotor_AB462049_4
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begin trees;

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6 Ailurus_fulgens_styani_NC009691_1,
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16 *Arctonyx_collaris*_NC020645_1,
17 *Arctotherium_sp*_NC030174_1,
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20 *Bassariscus_sumichrasti*_SRX1099089_1,
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34 *Chrysocyon_brachyurus*_NC024172_1,
35 *Civettictis_civetta*_GLC19_1,
36 *Civettictis_civetta*_NC033378_1,
37 *Conepatus_chinga*_NC042596_1,
38 *Crocuta_crocuta*_NC020670_3,
39 *Crossarchus_platycephalus*_C7AR66_1,
40 *Cryptoprocta_ferox*_CFC13_1,
41 *Cuon_alpinus*_NC013445_3,
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44 *Cystophora_cristata*_NC008427_1,
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46 *Enhydra_lutris*_NC009692_1,
47 *Erignathus_barbatus*_NC008426_1,
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51 *Felis_chaus*_NC028307_1,
52 *Felis_margarita*_NC028308_1,
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55 *Fossa_fossana*_D350_1,
56 *Galerella_sanguinea*_T378_1,
57 *Galictis_vittata*_T412_1,
58 *Galidia_elegans*_D146_1,
59 *Galidictis_fasciata*_DM333_1,
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63 *Gulo_gulo*_NC009685_3,
64 *Halichoerus_grypus*_NC001602_2,
65 *Helarctos_malayanus*_NC009968_2,
66 *Helogale_parvula*_SRR7637809_1,
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76 Ichneumia albicauda_T603_1,
77 Ictonyx striatus_T299_1,
78 Leopardus colocolo_NC028314_1,
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87 Leptonychotes weddellii_NC008424_1,
88 Lobodon carcinophaga_NC008423_1,
89 Lontra canadensis_SRR10409165_1,
90 Lutra lutra_LC050126_1,
91 Lutra lutra_NC011358_9,
92 Lutra sumatrana_NC035810_1,
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97 Lynx lynx_NC027083_4,
98 Lynx pardinus_NC028319_161,
99 Lynx rufus_NC014456_3,
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102 Martes foina_NC020643_1,
103 Martes martes_T302_3,
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115 Mephitis mephitis_NC020648_1,
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126 Mustela frenata_NC020640_1,
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128 Mustela kathiah_NC023210_1,
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144 Otocyon_megalotis_SAF1_2,
145 Paguma_larvata_PDDS11_2,
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184 Pusa_sibirica_NC008432_2,
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191 Tremarctos_ornatus_NC009969_2,

- 192 Urocyon cinereoargenteus_NC026723_21,
- 193 Urocyon littoralis_catalinae_KP129018_15,
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- 210 Viverra zibetha_T609_1,
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- 212 Viverricula indica_KX891751_1,
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99291e-

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02}}[&prob=1.00000000e+00,prob_stddev=0.00000000e+00,prob_range={1.00000000e+00,1.00000000e+00
},prob(percent)="100",prob+-sd="100+-0"]:3.142149e-02[&length_mean=3.15315280e-
02,length_median=3.14214900e-02,length_95%HPD={2.25854200e-02,4.04206400e-02}}];
end;
```