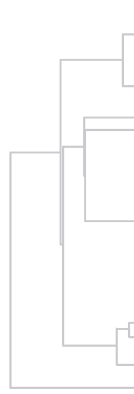
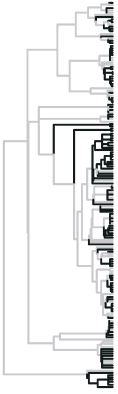


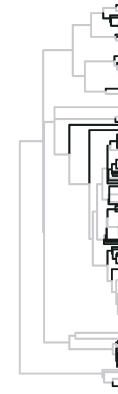
EA PCOM level phylogenetic trees; Tree 1.
For each EA PCOM, black branches in Tree 1 (on the left) represent species which are present in the EA PCOM-level tree (on the right)

EA PCOM 1



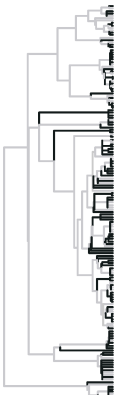
Megapteron cultridens
Homotherium davidiensis
Homotherium crenatidens
Aconoryx pardensis
Lynx issiodorensis
Chasmaportetes lunensis
Pliocrocuta perrieri
Vulpes praecursor
Vulpes alopecuroides
Nyctereutes megastoides
Eucyon odessanus
Agriotherium insigne
Ursus etruscus
Ursus minimus
Paracamelus alexandri
Sus arvernensis
Propitiodon provincialis
Plioragrus ardeus
Plioragrus heinrichi
Parastepiceros spolovi
Gazella borbonica
Gazella borbonica
Eosyncerus ibericus
Leptobos stenocephalus
Leptobos elatus
Alphya boodon
Parabos aethiopicus
Parabos minatus
Capreolus capreolus
Procapra modjensis
Eosyncerus poliocephalus
Paracervulus australis
Arviculoceros ardeus
Croizetoceros ramosus
Axis lyna
Rusa rhenana
Cervus perrieri
Stephanorhinus leptorhinus
Stephanorhinus etruscus
Stephanorhinus jeanvireti
Tapirus arvernensis
Hipparion mauretanicum
Hipparion longipes
Plesiohipparion rocinante
Equus livenzoviensis
Mammuth borsoni

EA PCOM 2



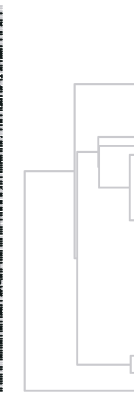
Homotherium crenatidens
Pliocrocuta perrieri
Canis etruscus
Ursus minimus
Paracamelus bessarabiensis
Sus strozzi
Gallagorale meneghini
Caprovius savini
Gazella borbonica
Gazellospira torticornis
Leptobos furvus
Leptobos elatus
Eucaloceros ctenoides
Croizetoceros ramosus
Axis nesti
Rusa rhenana
Cervus perrieri
Stephanorhinus etruscus
Stephanorhinus jeanvireti
Tapirus arvernensis
Plesiohipparion rocinante
Equus major
Equus stenonisi
Mammuth borsoni
Anancus arvernensis
Mammuth meridionalis
Elephas planifrons

EA PCOM 3



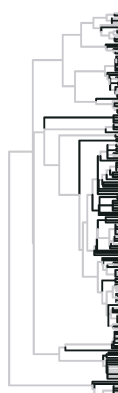
Megapteron cultridens
Homotherium crenatidens
Aconoryx pardensis
Ruma pardoides
Lynx issiodorensis
Panthera gombaszoegensis
Chasmaportetes lunensis
Pliocrocuta perrieri
Vulpes alopecuroides
Nyctereutes megastoides
Lycan falconeri
Canis etruscus
Ursus etruscus
Ursus minimus
Sus strozzi
Milanothierium martini
Megalois latifrons
Gallagorale meneghini
Hemiragrus orietalis
Plioragrus ardeus
Procapra brachycephala
Eosyncerus tessalensis
Gazella borbonica
Gazella borbonica
Gazellospira torticornis
Leptobos stenocephalus
Leptobos furvus
Leptobos elatus
Leptobos elatus
Cervicalces carnotorum
Cervicalces carnotorum
Arviculoceros ardeus
Eucaloceros ctenoides
Eucaloceros ctenoides
Croizetoceros ramosus
Axis nesti
Rusa rhenana
Cervus perrieri
Stephanorhinus etruscus
Stephanorhinus jeanvireti
Plesiohipparion rocinante
Equus major
Equus livenzoviensis
Equus stenonisi
Mammuth meridionalis
Anancus arvernensis

EA PCOM 4



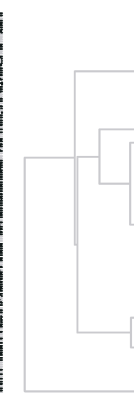
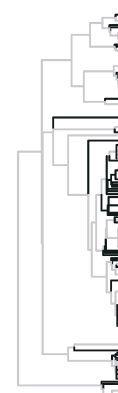
Megapteron whitei
Megapteron cultridens
Homotherium latidens
Homotherium crenatidens
Aconoryx pardensis
Lynx issiodorensis
Panthera gombaszoegensis
Chasmaportetes lunensis
Pliocrocuta perrieri
Pachycrocuta brevirostris
Vulpes alopecuroides
Lycan falconeri
Canis amensis
Canis etruscus
Ursus etruscus
Paracamelus alutensis
Sus strozzi
Hippopotamus antiquus
Milanothierium martini
Milanothierium inexpectatum
Megalois latifrons
Gallagorale meneghini
Plioragrus ardeus
Procapra brachycephala
Parastepiceros koufosi
Gazella borbonica
Gazellospira torticornis
Leptobos vallisani
Leptobos furvus
Leptobos elatus
Eubos tamarisensis
Pontoceros ambiguus
Cervicalces carnotorum
Cervicalces carnotorum
Eucaloceros ctenoides
Eucaloceros ctenoides
Præmegaceros davissoni
Croizetoceros ramosus
Axis nesti
Cervus perrieri
Stephanorhinus etruscus
Equus senecensis
Equus major
Equus stenonisi
Mammuth meridionalis

EA PCOM 5



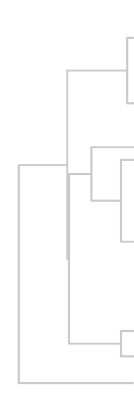
Megapteron whitei
Homotherium latidens
Homotherium crenatidens
Aconoryx pardensis
Lynx pardus
Lynx issiodorensis
Panthera gombaszoegensis
Pachycrocuta brevirostris
Vulpes pringioides
Lycan falconeri
Canis amensis
Canis etruscus
Canis mosbachensis
Ursus etruscus
Ursus arctos
Sus strozzi
Hippopotamus antiquus
Megalois latifrons
Soergelia minor
Hemiragrus albus
Leptobos vallisani
Leptobos elatus
Bison schoetensacki
Eubos tamarisensis
Capreolus capreolus
Cervicalces carnotorum
Cervicalces carnotorum
Eucaloceros giulii
Eucaloceros ctenoides
Eucaloceros ctenoides
Præmegaceros davissoni
Præmegaceros obscurus
Axis tamarisensis
Cervus elaphus
Megaceros savini
Rusa rhenana
Cervus elaphus
Stephanorhinus hundsheimensis
Stephanorhinus etruscus
Equus suessenbornensis
Equus senecensis
Equus major
Equus atidens
Mammuth trogontheri
Mammuth meridionalis

EA PCOM 6



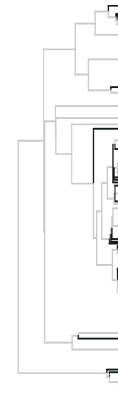
Homotherium latidens
Lynx issiodorensis
Panthera gombaszoegensis
Panthera pardus
Panthera leo
Pachycrocuta brevirostris
Crocuta crocuta
Vulpes angustidens
Lycan lyaconoides
Canis mosbachensis
Canis lupus
Ursus thibetanus
Ursus deningeri
Sus scrofa
Hippopotamus antiquus
Hippopotamus amphibius
Ovis pallasi
Soergelia elisabethae
Soergelia minor
Præmegaceros arvensis
Hemibos galienus
Leptobos vallisani
Bison schoetensacki
Bison priscus
Bison menieri
Capreolus suessenbornensis
Capreolus clactonensis
Cervicalces latifrons
Præmegaceros verticornis
Præmegaceros davissoni
Axis tamarisensis
Megaceros savini
Cervus elaphus
Stephanorhinus kirchbergensis
Stephanorhinus hundsheimensis
Stephanorhinus etruscus
Equus hemionus
Equus ferus
Equus suessenbornensis
Equus major
Equus atidens
Mammuth trogontheri
Mammuth meridionalis
Elephas antiquus

EA PCOM 7



Homotherium latidens
Lynx pardus
Lynx issiodorensis
Panthera gombaszoegensis
Panthera pardus
Panthera leo
Hyena prisca
Crocuta crocuta
Vulpes vulpes
Vulpes angustidens
Cuon prisca
Canis amensis
Canis lupus
Ursus thibetanus
Ursus arctos
Ursus deningeri
Ursus spelaeus
Sus scrofa
Hippopotamus antiquus
Hippopotamus amphibius
Præmegaceros priscus
Hemiragrus cedrensis
Hemiragrus bonali
Capra caucasica
Ovis ammon
Rupicapra rupicapra
Bison schoetensacki
Bison priscus
Bos primigenius
Rangifer tarandus
Capreolus capreolus
Cervicalces latifrons
Præmegaceros schillaci
Præmegaceros verticornis
Megaceros giganteus
Dama dama
Dama clactoniana
Cervus elaphus
Stephanorhinus kirchbergensis
Stephanorhinus hundsheimensis
Stephanorhinus hemiochus
Equus hydruntinus
Equus ferus
Equus suessenbornensis
Mammuth trogontheri
Mammuth primigenius
Elephas antiquus

EA PCOM 8



Lynx pardus
Lynx lynx
Panthera pardus
Panthera leo
Crocuta crocuta
Allopius lagopus
Vulpes vulpes
Vulpes corsac
Cuon alpinus
Canis amensis
Canis lupus
Ursus arctos
Ursus deningeri
Ursus spelaeus
Camelus knoblochi
Sus scrofa
Hippopotamus amphibius
Ovis pallasi
Ovis montanus
Hemiragrus cedrensis
Hemiragrus bonali
Capra pyrenaica
Ovis diei
Capra caucasica
Ovis ammon
Rupicapra rupicapra
Gazella subgutturosa
Saiga tatarica
Budaius menieri
Bison priscus
Bos primigenius
Rangifer tarandus
Capreolus capreolus
Cervicalces latifrons
Alces alces
Megaceros giganteus
Dama dama
Dama clactoniana
Cervus elaphus
Stephanorhinus kirchbergensis
Stephanorhinus hemiochus
Odocoileus antiquitatis
Elasmotherium sibiricum
Equus hydruntinus
Equus ferus
Equus suessenbornensis
Mammuth trogontheri
Mammuth primigenius
Elephas antiquus