**Convergent Carnivores or Divergent Dasyurids? Inferring Predation and Locomotor Strategies of Extant and Extinct Carnivorous Marsupials from Locomotor Shape.**

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**Table S1: The species included in this analysis, including common name, clade of inclusion, how many of each gait type, and the videos that were used.**

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| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Common** | **Clade** | **Cluster** | **Symm** | **Asymm** | **Videos** |
| *Acinonyx jubatus* | Cheetah | Felid | Social Hunters | 2 | 4 | Cheetah2, Cheetah3, Cheetah3, CheetahDog1, Cheetah1, Cheetah1 |
| *Canis familiaris* | Domestic dog | Canid | Social Hunters | 4 | 3 | Canisfamiliaris1, Greyhound2, Dogwalk1, Greyhound1, Dogwalk1, DomesticDog1 |
| *Canis familiaris dingo* | Dingo | Canid | Social Hunters | 1 | 0 | Dingo1 |
| *Canis familiaris lupus* | Wolf dog | Canid | Social Hunters | 1 | 0 | WolfDog1 |
| *Canis latrans* | Coyote | Canid | Opp. Pouncer | 2 | 0 | Coyote1, Coyote2 |
| *Canis lupus* | Grey wolf | Canid | Social Hunters | 2 | 2 | Wolf2, Wolf2, Wolf1, GreyWolf1 |
| *Canis mesomelas* | Black backed jackal | Canid | Opp. Pouncer | 1 | 1 | BBJ1, BlackBackedJackal1 |
| *Canis rufus* | Red wolf | Canid | Opp. Pouncer | 0 | 1 | Redwolf1 |
| *Canis simensis* | Ethiopian wolf | Canid | Opp. Pouncer | 1 | 0 | EthiopianWolf2 |
| *Caracal caracal* | Caracal | Felid | Opp. Grappler | 1 | 1 | Caracal1, Caracal2 |
| *Chrysocyon brachyurus* | Maned wolf | Canid | Opp. Pouncer | 1 | 1 | Manedwolf1, Manedwolf2 |
| *Civettictis civetta* | Civet | Viverroid | Opp. Pouncer | 1 | 0 | Civet1 |
| *Crocuta crocuta* | Spotted hyaena | Viverroid | Social Hunters | 1 | 1 | Hyena2 |
| *Dasyurus hallucatus* | Northern quoll | Dasyurid | Opp. Grappler | 1 | 0 | NQ1 |
| *Dasyurus maculatus* | Spotted tail quoll | Dasyurid | Opp. Grappler | 8 | 3 | EQSTQ1, Moss\_GOPR7353, STQ4, STQ1, STQ2, STQ4, STQ5, STQ6 |
| *Dasyurus viverrinus* | Eastern quoll | Dasyurid | Opp. Grappler | 3 | 0 | EQSTQ1, EQSTQ2, TDEQ1 |
| *Felis catus* | Domestic cat | Felid | Opp. Grappler | 9 | 1 | Feliscatus1, Domcat1, DomesticBlue1, DomesticBW1, DomesticBW2, DomesticBW3, DomesticLatte2, Fluffgreydom1 |
| *Felis lybica* | African wildcat | Felid | Opp. Grappler | 1 | 0 | AfrWildcat1 |
| *Felis margarita* | Sand cat | Felid | Opp. Grappler | 2 | 0 | Sandcat1 |
| *Gulo gulo* | Wolverine | Viverroid | Opp. Grappler | 1 | 1 | Gulo2, Gulo1 |
| *Puma yagouaroundi* | Jaguarundi | Felid | Opp. Grappler | 2 | 0 | Jaguarundi, Jaguarundi2 |
| *Hyaena hyaena* | Striped hyaena | Viverroid | Opp. Pouncer | 1 | 1 | Striped hyena2, Striped hyena1 |
| *Leopardus geoffroyi* | Geoffroys cat | Felid | Opp. Grappler | 1 | 0 | Geoffroy's cat |
| *Leopardus pardalis* | Ocelot | Felid | Opp. Grappler | 1 | 0 | Ocelot1\_Sidewalk |
| *Leopardus tigrinus* | Oncilla | Felid | Opp. Grappler | 2 | 0 | Oncilla1, Oncillaflipped |
| *Leptailurus serval* | Serval | Felid | Opp. Grappler | 2 | 1 | Serval2, Serval1 |
| *Lycalopex culpaeus* | Culpex fox | Canid | Opp. Pouncer | 1 | 0 | Culpex2 |
| *Lycalopex gymnocercus* | Pampas fox | Canid | Opp. Pouncer | 1 | 0 | Pampasfox1 |
| *Lycaon pictus* | Painted dog | Canid | Social Hunter | 2 | 1 | Painteddogs2, Painteddogs1 |
| *Lynx lynx* | Lynx | Felid | Opp. Grappler | 1 | 0 | Lynx1\_sidewalk |
| *Lynx rufus* | Bobcat | Felid | Opp. Grappler | 2 | 1 | Bobcat1, Bobcat2, Bobcat3 |
| *Myrmecobius fasciatus* | Numbat | Dasyurid | Anteater | 2 | 0 | Numbat1 |
| *Nyctereutes procyonoides* | Racoon dog | Canid | Opp. Grappler | 1 | 0 | RacoonDog1 |
| *Panthera leo* | Lion | Felid | Social Hunter | 2 | 1 | Lion3, Lion1\_Sidewalk, Lion2 |
| *Panthera onca* | Jaguar | Felid | Large Grappler | 2 | 1 | Jaguar2, Jaguar1, Jaguar1\_Sidewalk |
| *Panthera pardus* | Leopard | Felid | Large Grappler | 2 | 1 | Leopard2, Leopard3, Leopard1\_sidewalk |
| *Panthera pardus orientalis* | Amur Leopard | Felid | Large Grappler | 1 | 0 | Amurleopard1 |
| *Panthera tigris* | Tiger | Felid | Large Grappler | 2 | 1 | Tiger2, Tiger1, Tiger1\_sidewalk |
| *Parahyaena brunnea* | Brown hyaena | Viverroid | Opp. Pouncer | 1 | 0 | Brownhyena1 |
| *Proteles cristata* | Aardwolf | Viverroid | Anteater | 1 | 1 | Aardwolf1, Aardwolf2 |
| *Puma concolor* | Mountain Lion | Felid | Large Grappler | 1 | 2 | MountainLion2, Mountainlion3, MountainLion1 |
| *Sarcophilus harrisii* | Tasmanian devil | Dasyurid | Opp. Grappler | 1 | 9 | Pistachio\_25-26\_GoPr7343, Beatrix\_25-26\_GoPr7344, Drachma\_25-26\_GoPr7345, Baht\_25-26\_GoPr7348, Haru\_27\_GoPr7352, Cedi\_GOPR7354, Rand\_GOPR7358, TDEQ1, Zuko\_TD\_BR104\_21-05-25+Cali, TD1 |
| *Thylacinus cynocephalus* | Thylacine | Thylacine | UNKNOWN | 2 | 0 | TasTiger2, TasTiger3 |
| *Urocyon cinereoargenteus* | Grey fox | Canid | Opp. Pouncer | 1 | 0 | GreyFox3 |
| *Vulpes chama* | Cape fox | Canid | Opp. Pouncer | 1 | 0 | CapeFox1 |
| *Vulpes ferrilata* | Tibetan fox | Canid | Opp. Pouncer | 1 | 0 | TibetanFox1 |
| *Vulpes lagopus* | Arctic fox | Canid | Opp. Pouncer | 1 | 0 | BushDog1 |
| *Vulpes macrotis* | Kit fox | Canid | Opp. Pouncer | 1 | 0 | KitFox1 |
| *Vulpes vulpes* | Red fox | Canid | Opp. Pouncer | 2 | 1 | FoxCat1, FoxCat1, Redfox1 |
| **Total** |  |  |  | **84** | **40** | **124** |