

Appendix S1. List of potential prey excluded for African wild dog, cheetah, leopard and spotted hyaena, i.e. species which have not been reported to be preyed on by that carnivore.

Carnivore	Excluded prey
African wild dog	Black rhinoceros <i>Diceros bicornis</i> , African elephant <i>Loxodonta africana</i> , giraffe <i>Giraffa camelopardalis</i> , hippopotamus <i>Hippopotamus amphibius</i> and white rhinoceros <i>Ceratotherium simum</i>
Cheetah	Black rhinoceros; elephant; hippopotamus; white rhinoceros.
Leopard	Asian elephant <i>Elephas maximus</i> ; banteng <i>Bos javanicus</i> ; black rhinoceros; elephant; hippopotamus; one-horned rhinoceros <i>Rhinoceros unicornis</i> ; pygmy hippopotamus <i>Choeropsis liberiensis</i> ; white rhinoceros; wild water buffalo <i>Bubalus arnee</i> .
Spotted hyaena	Black rhinoceros; white rhinoceros.

Appendix S2. List of papers considered for analyses, for each carnivore species. Studies with the same number of asterisks have been pooled.

African wild dog

- Bissett C (2008) The feeding and spatial ecologies of the large carnivore guild on Kwandwe Private Game Reserve. PhD Thesis, Rhodes University, South Africa.
- Creel S, Creel NM (1995) Communal hunting and pack size in African wild dogs, *Lycaon pictus*. *Animal Behaviour* 50:1325-1339.
- Davies-Mostert HT, Mills MGL, Macdonald DW (2013) Hard boundaries influence African wild dogs diet and prey selection. *Journal of Applied Ecology* 50:1358-1366.
- Estes R, Goddard J (1967) Prey selection and hunting behaviour of the African Wild Dog. *Journal of Wildlife Management* 31:52-70.
- Fuller TK, Kat PW (1990) Movements, activity, and prey relationships of African wild dogs (*Lycaon pictus*) near Aitong, southwestern Kenya. *African Journal of Ecology* 28:330-350.*
- Fuller TK, Nicholls TH, Kat PW (1995) Prey and estimated food consumption of African wild dogs in Kenya. *South African Journal of Wildlife Research* 25:106-110.*
- Hirst SM (1969) Populations in a Transvaal Lowveld Nature Reserve. *Zoologica Africana* 4:199-230.
- Kruger SC, Lawes MJ, Maddock AH (1999) Diet Choice and capture success of wild dog (*Lycaon pictus*) in Hluhluwe-Umfolozi Park, South Africa. *Journal of Zoology* 248:543-551.**
- Kruuk H, Turner M (1967) Comparative notes on predation by lion, leopard, cheetah and wild dog in the Serengeti area East Africa. *Mammalia* 3:1-27.***
- Malcolm JR, Lawick HV (1975) Notes on wild dogs (*Lycaon pictus*) hunting Zebras. *Mammalia* 39:231-240.***
- Mills MGL, Gorman ML (1997) Factors Affecting the Density and Distribution of Wild Dogs in the Kruger National Park. *Conservation Biology* 11:1397-1406.****
- Mitchell BL, Shenton JB, Uys JCM (1965) Predation on large mammals in the Kafue National Park, Zambia. *Zoologica Africana* 1:297-318.
- Pienaar U de V (1969) Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:108-176. ****
- Pole A, Gordon IJ, Gorman ML, MacAskill M (2004) Prey selection by African wild dogs (*Lycaon pictus*) in southern Zimbabwe. *Journal of Zoology* 262:207-215.
- Radloff RGT, Du Toit JT (2004) Large predators and their prey in a southern African savanna: a predator's size determines its prey size range. *Journal of Animal Ecology* 73:410-423.
- Rhodes R, Rhodes G (2004) Prey selection and use of natural and man-made barriers by African wild dogs while hunting. *South African Journal of Wildlife Research* 34:135-142.
- Schaller GB (1972) The Serengeti lion. University of Chicago Press, Chicago, Illinois.***
- van Dyk G, Slotow R (2003) The effects of fences and lions on the ecology of African wild dogs reintroduced to Pilanesberg National Park, South Africa. *African Zoology* 38:79-94.
- Whateley AA, Brooks PM (1985) The carnivores of the Hluhluwe and Umfolozi game reserves: 1973–1982. *Lammergeyer* 35:1-27.**
- Wilson VJ (1975) Mammals of the Wankie National Park, Rhodesia. Trustees of the National Museums and Monuments of Rhodesia, Salisbury, Rhodesia.

van der Meer E, Lyon N, Mutohori T, Mandisodza-Chikerema R, Blinston P (2018) Dangerous game: preferential predation on baboons by African wild dogs in Mana Pools National Park, Zimbabwe. *Behaviour* 156:1-22.

Cheetah

- Berry HH (1981) Abnormal levels of disease and predation as limiting factors for wildebeest in the Etosha National Park. *Madoqua* 12:242-253.
- Bissett C (2008) The feeding and spatial ecologies of the large carnivore guild on Kwandwe Private Game Reserve. PhD Thesis, Rhodes University, South Africa.
- Boast L, Houser AM, Horgan J, Reeves H, Phale P, Klein R (2016) Prey preferences of free-ranging cheetahs on farmland: scat analysis versus farmers' perceptions. *African Journal of Ecology* 54:424-433.
- Broekhuis F, Thuo D, Hayward MW (2017) Feeding ecology of cheetahs in the Masai Mara, Kenya and the potential for intra- and interspecific competition. *Journal of Zoology* 304:65-72.
- Broomhall LS (2001) Cheetah *Acinonyx jubatus* ecology in the Kruger National Park: a comparison with other studies across the grassland-woodland gradient in African savannas. PhD Thesis, University of Pretoria, South Africa.**
- Eaton RL (1970) Hunting Behavior of the Cheetah. *Journal of Wildlife Management* 24:56-67.
- Farhadinia MS, Hosseini-Zavarei F, Nezami B, Harati H, Absalan H, Fabiano E, Marker L (2012) Feeding ecology of the Asiatic cheetah *Acinonyx jubatus venaticus* in low prey habitats in northeastern Iran: Implications for effective conservation. *Journal of Arid Environments* 87: 206-211.
- Hirst SM (1969) Populations in a Transvaal Lowveld Nature Reserve. *Zoologica Africana* 4:199-230.
- Hunter LTB (1998) The behavioural ecology of reintroduced lions and cheetahs in the Phinda Resource Reserve, KwaZulu-Natal, South Africa. PhD thesis, University of Pretoria, South Africa.
- Kruuk H, Turner M (1967) Comparative notes on predation by lion, leopard, cheetah and wild dog in the Serengeti area East Africa. *Mammalia* 3:1-27.*
- Mills MG (1984) Prey selection and feeding habits of the large carnivores in the Southern Kalahari. *Supplement to Koedoe* 1984:281-294.
- Mills MGL, Biggs HC (1993) Prey apportionment and related ecological relationships between large carnivores in Kruger National Park. *Symposia of the Zoological Society of London* 65:253-268.***
- Mills MGL, Broomhall LS, du Toit JT (2004) Cheetah *Acinonyx jubatus* feeding ecology in the Kruger National Park and a comparison across African savanna habitats: is the cheetah only successful hunter on open grassland plains? *Wildlife Biology* 10:177-186.***
- Mitchell BL, Shenton JB, Uys JCM (1965) Predation on large mammals in the Kafue National Park, Zambia. *Zoologica Africana* 1:297-318.
- Pettifer HL (1981) Aspects on the ecology of cheetahs on the Suikerbosrand Nature Reserve. In Chapman JA, Pursley D (eds.) Proceedings of Worldwide Furbearer Conference, Worldwide Furbear Conference Inc.:1121-1142.
- Pienaar U de V (1969) Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:108-176.**

- Radloff RGT, Du Toit JT (2004) Large predators and their prey in a southern African savanna: a predator's size determines its prey size range. *Journal of Animal Ecology* 73:410-423.
- Schaller GB (1968) The hunting behaviour of the cheetah in the Serengeti National Park, Tanzania. *East African Wildlife Journal* 6:95-100.*
- Schaller GB (1972) The Serengeti lion. University of Chicago Press, Chicago, Illinois.*
- Vorster PH (2011) The feeding and spatial ecology of Cheetahs (*Acinonyx jubatus*) and Lions (*Panthera Leo*) in the Little Karoo, South Africa. MSc Thesis, University of Rhodes.
- Whateley AA, Brooks PM (1985) The carnivores of the Hluhluwe and Umfolozi game reserves: 1973–1982. *Lammergeyer* 35:1-27.

Dhole

- Acharya BB (2007) The ecology of the dhole or Asiatic wild dog (*Cuon alpinus*) in Pench Tiger Reserve, Madhya Pradesh. PhD thesis, Saurashtra University, Rajkot, Gujarat.
- Andheria AP, Karanth KU, Kumar NS (2007) Diet and prey profiles of three sympatric large carnivores in Bandipur Tiger Reserve, India. *Journal of Zoology* 273:169-175.
- Bashir T, Bhattacharya T, Poudyal K, Roy M, Sathyakumar S (2014) Precarious status of the Endangered dhole *Cuon alpinus* in the high elevation Eastern Himalayan habitats of Khangchendzonga Biosphere Reserve, Sikkim, India. *Oryx* 48:125-132.
- Borah J, Deka K, Dookia S, Gupta RP (2009) Food habits of dholes (*Cuon alpinus*) in Satpura Tiger Reserve, Madhya Pradesh, India. *Mammalia* 73:85-88.*
- Cohen JA, Fox MW, Johnsingh AJT, Barnett BD (1978) Food Habits of the Dhole in South India. *Journal of Wildlife Management*. 42:933-936.***
- Dar SA, Khan JA (2016) Food habits of dhole *Cuon alpinus* in tropical forests of southern India. *Current Science* 111:1701-1705.
- Edgaonkar A (2008) Ecology of the leopard (*Panthera pardus*) in Bori Wildlife Sanctuary and Satpura National Park, India. PhD thesis, University of Florida.*
- Grassman LI Jr., Tewes ME, Silvy NJ, Kreetiyutanont K (2005) Spatial ecology and diet of the dhole *Cuon alpinus* (Canidae, Carnivora) in north central Thailand. *Mammalia* 69:11-20.
- Joseph S, Thomas AP, Satheesh R, Sugathan R (2007) Foraging ecology and relative abundance of large carnivores in Parambikulam Wildlife Sanctuary, Southern India. *Zoos' Print Journal* 23: 2667-2670.
- Kamler JF, Johnson A, Vongkhamheng C, Bousa A (2012) The diet, prey selection, and activity of dholes (*Cuon alpinus*) in northern Laos. *Journal of Mammalogy* 93:627-633.
- Karanth KU, Sunquist ME (1995) Prey Selection by Tiger, Leopard and Dhole in Tropical Forests. *Journal of Animal Ecology* 64:439-450.
- Lyngdoh S, Gopi GV, Selvan KM, Habib B (2014) Effect of interactions among ethnic communities, livestock and wild dogs (*Cuon alpinus*) in Arunachal Pradesh, India. *European Journal of Wildlife Research* 60:771-780.**
- Ramesh T, Kalle R, Sankar K, Qureshi Q (2012) Dietary Partitioning in Sympatric Large Carnivores in a Tropical Forest of Western Ghats, India. *Mammal Study* 37:313-321.***
- Rice CG (1986) Observations on predators and prey at Eravikulam National Park, Kerala. *Journal of the Bombay Natural History Society* 83:283-305.
- Selvan KM, Veeraswami GG, Lyngdoh S, Habib B, Hussain SA (2013) Prey selection and food habits of three sympatric large carnivores in a tropical lowland forest of the Eastern Himalayan Biodiversity Hotspot. *Mammalian Biology* 78:296-303.**

- Thinley Ph, Kamler JF, Wang SW, Lham K, Stenkewitz U, Macdonald DW (2011) Seasonal diet of dholes (*Cuon alpinus*) in northwestern Bhutan. *Mammalian Biology* 76:518-520.
- Venkataraman AB, Arumugam R, Sukumar R (1995) The foraging ecology of dhole (*Cuon alpinus*) in Mudumalai Sanctuary, southern India. *Journal of Zoology* 237:543-561.***
- Wang SW, Macdonald DW (2009) Feeding habits and niche partitioning in a predator guild composed of tigers, leopards and dholes in a temperate ecosystem in central Bhutan. *Journal of Zoology* 277:275-283.

Eurasian lynx

- Andrén H, Liberg O (2015) Large impact of Eurasian lynx predation on roe deer population dynamics. *PLoS ONE* 10(3): e0120570. doi:10.1371/journal.pone.0120570.
- Gervasi V, Nilsen EB, Odden J, Bouyer Y, Linnell JDC (2014) The spatio-temporal distribution of wild and domestic ungulates modulates lynx kill rates in a multi-use landscape. *Journal of Zoology* 292:175-183.
- Heurich M, Zeis K, Küchenhoff H, Müller J, Belotti E, Bufka L, Woelfing B (2016) Selective Predation of a Stalking Predator on Ungulate Prey. *PLoS ONE* 11(8): e0158449. doi:10.1371/journal.pone.0158449.
- Jędrzejewski W, Schmidt K, Miłkowski L, Jędrzejewska B, Okarma H (1993) Foraging by lynx and its role in ungulate mortality: the local (Białowieża Forest) and the Palaearctic viewpoints. *Acta Theriologica* 38:385-403.*
- Jobin A, Molinari P, Breitenmoser U (2000) Prey spectrum, prey preference and consumption rates of Eurasian lynx in the Swiss Jura Mountains. *Acta Theriologica* 45:243-252.
- Mattisson J, Odden J, Nilsen EB, Linnell JDC, Persson J, Andrén H (2011) Factors affecting Eurasian lynx kill rates on semi-domestic reindeer in northern Scandinavia: Can ecological research contribute to the development of a fair compensation system? *Biological Conservation* 144:3009-3017.
- Mengüllüoğlu D, Ambarlı H, Berger A, Hofer H (2018) Foraging ecology of Eurasian lynx populations in southwest Asia: Conservation implications for a diet specialist. *Ecology and Evolution* 8(18): 9451-9463.
- Molinari-Jobin A, Zimmermann F, Ryser A, Breitenmoser-Würsten C, Capt S, Breitenmoser U, Molinari P, Haller H, Eyholzer R (2007) Variation in diet, prey selectivity and home-range size of Eurasian lynx *Lynx lynx* in Switzerland. *Wildlife Biology* 13:393-405.
- Odden L, Linnell JDC, Andersen R (2006) Diet of Eurasian lynx, *Lynx lynx*, in the boreal forest of southeastern Norway: the relative importance of livestock and hares at low roe deer density. *European Journal of Wildlife Research* 52:237-244.
- Okarma H, Jędrzejewski W, Schmidt K, Kowalczyk R, Jędrzejewska B (1997) Predation of Eurasian lynx on roe deer and red deer in Białowieża Primeval Forest, Poland. *Acta Theriologica* 42:203-224.*
- Pedersen VA, Linnell JDC, Andersen R, Andrén H, Lindén M, Segerstöm P (1999) Winter lynx *Lynx lynx* predation on semi-domestic reindeer *Rangifer tarandus* in northern Sweden. *Wildlife Biology* 5:203-211.
- Schmidt K (2008) Behavioural and spatial adaptation of the Eurasian lynx to a decline in prey availability. *Acta Theriologica* 53:1-16.*
- Sidorovich VE (2006) Relationship between prey availability and population dynamics of the Eurasian lynx and its diet in northern Belarus. *Acta Theriologica* 51:265-274.

Sunde P, Kvam T, Bolstad JP, Bronndal M (2000) Foraging of Lynxes in a Managed Boreal-Alpine Environment. *Ecography* 23:291-298.

Jaguar

Aranda M, Sánchez-Cordero V (2006) Prey spectra of Jaguar (*Panthera onca*) and puma (*Puma concolor*) in Tropical Forests of Mexico. *Studies on Neotropical Fauna and Environment* 31: 65-67.

Ávila-Nájera DM, Palomares F, Chávez C, Tigar B, Mendoza G.D (2018) Jaguar (*Panthera onca*) and puma (*Puma concolor*) diets in Quintana Roo, Mexico. *Animal Biodiversity and Conservation* 41:257–266.

Azevedo FC (2008) Food Habits and Livestock Depredation of Sympatric Jaguars and Pumas in the Iguazu National Park Area, South Brazil. *Biotropica* 40: 494-500.**

Azevedo FC, Murray DL (2007) Spatial organization and food habits of jaguars (*Panthera onca*) in a floodplain forest. *Biological Conservation* 137:391-402.

Carrillo E, Fuller TK, Saenz JC (2009) Jaguar (*Panthera onca*) hunting activity: effects of prey distribution and availability. *Journal of Tropical Ecology* 25:563-567.

Cassaigne I, Medellín RA, Thompson RW, Culver M, Ochoa A, Vargas K, Childs JL, Sanderson J, List R, Torres-Gómez A (2016) Diet of pumas (*Puma concolor*) in Sonora, Mexico, as determined by GPS kill sites and molecular identified scat, with comments on jaguar (*Panthera onca*) diet. *The Southwestern Naturalist* 61:125-132.

Crawshaw PG Jr., Mähler JK, Indrusiak C, Cavalcanti SMC, Leite-Pitman MRP, Silvius KM (2004) Ecology and Conservation of the Jaguar (*Panthera onca*) in Iguazu National Park, Brazil. *People in nature: wildlife conservation in South and Central America*: 286-296.**

Emmons LH (1987) Comparative Feeding Ecology of Felids in a Neotropical Rainforest. *Behavioral Ecology and Sociobiology* 20: 271-283.

Foster RG, Harmsen BJ, Valdes B, Pomilla C, Doncaster CP (2010) Food habits of sympatric jaguars and pumas across a gradient of human disturbance. *Journal of Zoology* 280:309-318.

Garla RC, Setz EZF, Gobbi N (2001) Jaguar (*Panthera onca*) Food habits in Atlantic rain forest of Southeastern Brazil. *Biotropica* 33:691-696.

Gómez-Ortiz Y, Monroy-Vilchis O (2013) Feeding ecology of puma *Puma concolor* in Mexican montane forests with comments about jaguar *Panthera onca*. *Wildlife Biology* 19:179-187.***

Gómez-Ortiz Y, Monroy-Vilchis O, Mendoza-Martínez GD (2015) Feeding interactions in an assemblage of terrestrial carnivores in central Mexico. *Zoological Studies* 54:1-8.***

Hernández-SaintMartín AD, Rosas-Rosas OC, Palacio-Núñez J, Tarango-Arambula LA, Clemente-Sánchez F, Hoogesteijn AL (2015) Food habits of jaguar and puma in a protected area and adjacent fragmented landscape of Northeastern Mexico. *Natural Areas Journal* 35:308-317.

Mc Bride R, Giordano A, Ballard WB (2010) Note on the winter diet of Jaguars *Panthera onca* in the Paraguayan Transitional Chaco. *Bellbird* 4:1-12.

Miranda EB, Jácomo ATDA, Tôrres NM, Alves GB, Silveira L (2018) What are jaguars eating in a half-empty forest? Insights from diet in an overhunted Caatinga reserve. *Journal of Mammalogy* 99:724-731.

Novack AJ, Main MB, Sunquist ME, Labisky RF (2005) Foraging ecology of jaguar (*Panthera onca*) and puma (*Puma concolor*) in hunted and non-hunted sites within the Maya Biosphere Reserve, Guatemala. *Journal of Zoology* 267:167-178.

- Nuñez R, Miller B, Lindzey F (2000) Food habits of jaguars and pumas in Jalisco, Mexico. *Journal of Zoology* 252:373-379.
- Perilli MLL, Lima F, Rodrigues FHG, Cavalcanti SMC (2016) Can scat analysis describe the feeding habits of Big Cats? A case study with Jaguars (*Panthera onca*) in Southern Pantanal, Brazil. *PLoS ONE* 11(3): 1 – 12. e0151814. doi:10.1371/journal.pone.0151814.
- Rabinowitz AR, Nottingham BJ Jr. (1986) Ecology and behaviour of the Jaguar (*Panthera onca*) in Belize, Central America. *Journal of Zoology* 210:149-159.*
- Rosas-Rosas OC, Bender LC, Valdez R (2008) Jaguar and Puma Predation on Cattle Calves in Northeastern Sonora, Mexico. *Rangeland Ecology & Management* 61:554-560.
- Rueda P, Mendoza GD, Martínez D, Rosas-Rosas OC (2013): Determination of the jaguar (*Panthera onca*) and puma (*Puma concolor*) diet in a tropical forest in San Luis Potosi, Mexico. *Journal of Applied Animal Research* 2013:1-
<http://dx.doi.org/10.1080/09712119.2013.787362>
- Scognamillo D, Maxit IE, Sunquist M, Polisar J (2004) Coexistence of jaguar (*Panthera onca*) and puma (*Puma concolor*) in a mosaic landscape in the Venezuelan llanos. *Journal of Zoology* 259:269-279.
- Sollmann R, Betsch J, Malzoni Furtado M, Hofer H, Jácomo ATA, Palomares F, Roques S, Mundim Tôres N, Vynne C, Silveira L (2013) Note on the diet of the jaguar in central Brazil. *European Journal of Wildlife Research* 59:445-448.
- Taber AB, Novaro AJ, Neris N, Colman FH (1997) The food habits of sympatric Jaguar and Puma in the Paraguayan Chaco. *Biotropica* 29:204-213.
- Weckel M, Giuliano W, Silver S (2006) Cockscomb Revisited: Jaguar Diet in the Cockscomb Basin Wildlife Sanctuary, Belize. *Biotropica* 38:687-690.*

Leopard

- Akrim F, Mahmood T, Nadeem MS, Andleeb S, Qasim S (2018) Spatial distribution and dietary niche breadth of the leopard *Panthera pardus* (Carnivora: Felidae) in the northeastern Himalayan region of Pakistan. *Turkish Journal of Zoology* 42:585-595.
- Andheria AP, Karanth KU, Kumar NS (2007) Diet and prey profiles of three sympatric large carnivores in Bandipur Tiger Reserve, India. *Journal of Zoology* 273:169-175.
- Athreya V, Odden M, Linnell JDC, Krishnaswamy J, Karanth U (2016) A cat among the dogs: leopard *Panthera pardus* diet in a human-dominated landscape in western Maharashtra, India. *Oryx* 50:156-162.
- Bailey TN (1993) The African leopard: ecology and behavior of a solitary felid. Columbia University Press.
- Balme GA, Pitman RT, Robinson HS, Miller JRB, Funston PJ, Hunter LTB (2017) Leopard distribution and abundance is unaffected by interference competition with lions. *Behavioral Ecology* 28:1348-1358.
- Bertram BCR (1982) Leopard ecology as studied by radio tracking. *Symposia of the Zoological Society of London* 49:341-352.*
- Bhattarai BP, Kindlmann P (2012) Interactions between Bengal tiger (*Panthera tigris*) and leopard (*Panthera pardus*): implications for their conservation. *Biodiversity and Conservation* 21:2075-2094.
- Bodendorfer T, Dominik BH, Fischer F, Linsenmair KE (2006) Prey of the leopard (*Panthera pardus*) and the lion (*Panthera leo*) in the Comoé and Marahoué National Parks, Côte d'Ivoire, West Africa. *Mammalia* 37:231-246.

- Bothma JDuP, van Rooyen N, Le Riche EAN (1997) Multivariate analysis of the hunting tactics of Kalahari leopards. *Koedoe* 40:41-56.**
- Chase-Grey JN (2010) Leopard population dynamics, trophy hunting and conservation in the Soutpansberg Nountains, South Africa. MSc thesis, Durham University.#####
- Chattha SA, Hussain SM, Javid A, Abbas MN, Mahmood S, Rarq MG, Hussain M (2015) Seasonal diet composition of leopard (*Panthera pardus*) in Mqachiara National Park, Azard Jammu and Kashmir, Pakistan. *Pakistan Journal Zoology* 47: 201-207.
- De Luca DW, Mpunga NE (2018) Leopard abundance, distribution and food habits in the Mt. Rungwe–Kitulo landscape, Southern Tanzania. *African Journal of Ecology* 56:358-367.
- Edgaonkar A (2008) Ecology of the leopard (*Panthera pardus*) in Bori Wildlife Sanctuary and Satpura National Park, India. PhD thesis, University of Florida.
- Eisenberg JF, Lockhart M (1972) An ecological reconnaissance of Wilpattu National Park, Ceylon. *Smithsonian Contributions to Zoology* 101:1-118.
- Farhadinia MS, Moqanaki EM, Hosseini-Zavare F (2014) Predator–prey relationships in a middle Asian Montane steppe: Persian leopard versus urial wild sheep in Northeastern Iran. *European Journal of Wildlife Research* 60:341-349.****
- Farhadinia MS, Johnson PJ, Hunter LT, Macdonald DW (2018) Persian leopard predation patterns and kill rates in the Iran–Turkmenistan borderland. *Journal of Mammalogy* 99:713-723.
- Grassman LI Jr. (1999) Ecology and behavior of the Indochinese leopard in Kaeng Krachan National Park, Thailand. *Natural History Bulletin of the Siam Society* 47:77-93.
- Grimbeek AM (1992) The ecology of the leopard (*Panthera pardus*) in the Waterberg. PhD thesis, University of Pretoria.
- Harihar A, Pandav B, Goyal SP (2011) Responses of leopard *Panthera pardus* to the recovery of a tiger *Panthera tigris* population. *Journal of Applied Ecology* 48:806-814.
- Hart JA, Katembo M, Punga K (1996) Diet, prey selection and ecological relations of leopard and golden cat in the Ituri Forest, Zaire. *African Journal of Ecology* 34:364-379.
- Henschel P, Abernethy KA, White LJT (2005) Leopard food habits in the Lopé National Park, Gabon, Central Africa. *African Journal of Ecology* 43:21-28.
- Henschel P, Hunter LTB, Coad L, Abernethy KA, Mühlenberg M (2011) Leopard prey choice in the Congo Basin rainforest suggests exploitative competition with human bushmeat hunters. *Journal of Zoology* 285:11-20.
- Hirst SM (1969) Populations in a Transvaal Lowveld Nature Reserve. *Zoologica Africana* 4:199-230.
- Hoppe-Dominik B (1984) Etude du spectre des proies de la panthere, *Panthera pardus*, dans le Pare National de Taï en Côte d'Ivoire. *Mammalia* 48:477-487.#####
- Hussain A, Mahmood T, Akrim F, Andleeb S, Fatima H, Hamid A, Waseem M (2018) Depleting wild prey compels common leopard (*Panthera pardus*) to sustain on livestock. *Animal Biology* 1:1-18.
- Jooste E, Hayward MW, Pitman RT, Swanepoel LH (2013) Effect of prey mass and selection on predator carrying capacity estimates. *European Journal of Wildlife Research* 59:487-494.
- Joseph S (2007) Foraging ecology and relative abundance of large carnivores in Parambikulam Wildlife Sanctuary, southern India. *Zoos' Print Journal* 22:2667-2670.
- Karanth KU, Sunquist ME (1995) Prey selection by tiger, leopard and dhole in tropical forests. *Journal of Animal Ecology* 64:439-450.
- Khan U, Lovari S, Shah SA, Ferretti F (2018) Predator, prey and humans in a mountainous area: loss of biological diversity leads to trouble. *Biodiversity and Conservation* 27:2795-2813.

- Kittle AM, Watson AC, Chanaka Kumara PHS, Sandanayake SDKC, Sanjeevani HKN, Fernando TSP (2014) Notes on the diet and habitat selection of the Sri Lankan Leopard *Panthera pardus kotiya* (Mammalia: Felidae) in the central highlands of Sri Lanka. *Journal of Threatened Taxa* 6:6214-6221.
- Kruuk H, Turner M (1967) Comparative notes on predation by lion, leopard, cheetah and wild dog in the Serengeti area East Africa. *Mammalia* 3:1-27.*
- Kshetry A, Vaidyanathan S, Athreya V (2018) Diet Selection of Leopards (*Panthera pardus*) in a Human-Use Landscape in North-Eastern India. *Tropical Conservation Science* 11, 1940082918764635.
- Lovari S, Minder I, Ferretti F, Mucci N, Randi E, Pellizzi B (2013) Common and snow leopards share prey, but not habitats: competition avoidance by large predators? *Journal of Zoology* 291:127-135.
- Lovari S, Mori E (2017) Seasonal food habits of the endangered Indochinese leopard *Panthera pardus delacouri* in a protected area of North West Thailand. *Folia Zoologica* 66:242-248.
- Lovari S, Pokheral CP, Jnawali SR, Fusani L, Ferretti F (2015) Coexistence of the tiger and the common leopard in a prey-rich area: the role of prey partitioning. *Journal of Zoology* 295:122-131.
- Lukarevsky VS (1988) Feeding of leopard (*Panthera pardus*), striped hyena (*Hyaena hyaena*) and wolf (*Canis lupus*) in the south-west Koppeh Dagh. *Zoologicheskij Zhurnal* 57:310-311.
- Lyngdoh S, Gopi GV, Selvan KM, Habib B (2014) Effect of interactions among ethnic communities, livestock and wild dogs (*Cuon alpinus*) in Arunachal Pradesh, India. *European Journal of Wildlife Research* 60:771-780.###
- Majdumer A, Sankar K, Qureshi Q, Basu S (2013) Predation ecology of large sympatric carnivores as influenced by available wild ungulate prey in a tropical deciduous forest of Central India. *Journal of Tropical Ecology* 29:417-426.
- Martins Q, Horsnell WGC, Titus W, Rautenbach T, Harris S (2011) Diet determination of the Cape Mountain leopards using global positioning system location clusters and scat analysis. *Journal of Zoology* 283:81-87.
- Mbizah MM, Marino J, Groom RJ (2012) Diet of four sympatric carnivores in Savé Valley Conservancy, Zimbabwe: implications for conservation of the African wild dog (*Lycan pictus*). *South African Journal of Wildlife Research* 42:94-103.
- Mills MG (1984) Prey selection and feeding habits of the large carnivores in the Southern Kalahari. *Supplement to Koedoe* 1984:281-294.***
- Mills MGL (1990) Kalahari hyaenas: comparative behavioural ecology of two species. London: Unwin Hyman.***
- Mills MGL, Biggs HC (1993) Prey apportionment and related ecological relationships between large carnivores in Kruger National Park. *Symposia of the Zoological Society of London* 65:253-268.**
- Mitchell BL, Shenton JB, Uys JCM (1965) Predation on large mammals in the Kafue National Park, Zambia. *Zoologica Africana* 1:297-318.
- Mizutani F (1999) Impact of leopards on a working ranch in Laikipia, Kenya. *African Journal of Ecology* 37:211-225.
- Mondal K, Gupta S, Qureshi Q, Sankar K (2011) Prey selection and food habits of leopard (*Panthera pardus*) in Sariska Tiger Reserve, Rajasthan, India. *Mammalia* 75:201-205.*****

- Mondall K, Gupta S, Bhattacharjee S, Qureshi Q, Sankar K (2012) Prey selection, food habits and dietary overlap between leopard *Panthera pardus* (Mammalia: Carnivora) and re-introduced tiger *Panthera tigris* (Mammalia: Carnivora) in a semi-arid forest of Sariska Tiger Reserve, Western India. *Italian Journal of Zoology* 79:607-616. *****
- Norton PM, Lawson AB, Henley SR, Avery G (1986) Prey of leopards in four mountainous areas of the south-western Cape Province. *South African Journal of Wildlife Research* 16:47-52.
- Pienaar U de V (1969) Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:108-176.**
- du Preez B, Purdon J, Trethowan P, Macdonald DW, Loveridge AJ (2017) Dietary niche differentiation facilitates coexistence of two large carnivores. *Journal of Zoology* 302:149-156.
- Rabinowitz A (1989) The density and behavior of large cats in a dry tropical forest mosaic in Huai Kha Kaeng Wildlife Sanctuary, Thailand. *Natural History Bulletin of the Siam Society* 37: 235-251.
- Radloff FGT, Du Toit JT (2004) Large predators and their prey in a southern African savanna: a predator's size determines its prey size range. *Journal of Animal Ecology* 73:410-423.
- Ramakrishnan U, Coss RG, Pelkey NW (1999) Tiger decline caused by the reduction of large ungulate prey: evidence from a study of leopard diets in southern India. *Biological Conservation* 8:113-120.
- Ramesh T, Snehalatha V, Sankar K, Qureshi Q (2009) Food habits and prey selection of tiger and leopard in Mudumalai Tiger Reserve, Tamil Nadu, India. *Journal of Scientific Transactions in Environment and Technovation* 2: 170-181.#
- Ramesh T, Kalle R, Sankar K, Qureshi Q (2012) Dietary partitioning in sympatric large carnivores in a tropical forest of Western Ghats, India. *Mammal Study* 37:313-322.#
- Ray RR (2011) Ecology and population status and the impact of trophy hunting of the leopard *Panthera pardus* (LINNAEUS, 1758) in the Luambe National Park and surrounding Game Management Areas in Zambia. PhD thesis, University of Bonn.
- Ray JC, Sunquist ME (2001) Trophic relations in a community of African rainforest carnivores. *Oecologia* 127:395-408.
- Rice CG (1986) Observations on predators and prey at Eravikulam National Park, Kerala. *Journal of the Bombay Natural History Society* 83:283-305.
- Rima D (2014) Diet composition of common leopards in Bardia National Park and the adjacent buffer zones and habitat corridor in Nepal. MSc thesis, Hedmark University College.
- Rostro-García S, Kamler JF, Crouthers R, Sopheak K, Prum S, In V, Pin C, Caragiulo A, Macdonald, DW (2018) An adaptable but threatened big cat: density, diet and prey selection of the Indochinese leopard (*Panthera pardus delacouri*) in eastern Cambodia. *Royal Society open science* 5(2), 171187.
- Le Roux PG, Skinner JD (1989) A note on the ecology of the leopard (*Panthera pardus* Linnaeus) in the Londolozi Game Reserve, South Africa. *African Journal of Ecology* 27:167-171.
- Ruggiero RG (1991) Prey selection of the lion (*Panthera leo* L.) in the Manovo-Gounda-St. Floris National Park, Central African Republic. *Mammalia* 55:23-33.
- Sathyakumar S (1992) Food habits of leopard (*Panthera pardus*) on Mundanthurai plateau, Tamil Nadu, India. *Tiger Paper* 19:8-9.
- Schaller GB (1967) *The Deer and the Tiger*, University of Chicago Press, Chicago, Illinois.
- Schaller GB (1972) *The Serengeti lion*. University of Chicago Press, Chicago, Illinois.*
- Schaller GB (1985). *Giant pandas of Wolong*. University of Chicago press.

- Schwarz S, Fischer F (2006) Feeding ecology of Leopards (*Panthera pardus*) In the Western Soutpansberg, Republic of South Africa, as revealed by scat analyses. *Ecotropica* 12:35-42.#####
- Selvan KM, Veeraswami GG, Lyngdoh S, Habib B, Hussain SA (2013) Prey selection and food habits of three sympatric large carnivores in a tropical lowland forest of the Eastern Himalayan Biodiversity Hotspot. *Mammalian Biology* 78:296-303.###
- Sharbafi E, Farhadinia MS, Rezaie HR, Braczkowski RA (2016) Prey of the Persian Leopard (*Panthera pardus saxicolor*) in a mixed forest-steppe landscape in northeastern Iran (Mammalia: Felidae). *Zoology in the Middle East* 62:1-8.
- Shirbhate MV (2007) Quantification of predation and incidence of parasitic infestation in Melghat Tiger Reserve with special reference to leopards (*Panthera pardus*). *The Bioscan* 2:41-46.
- Sidhu S, Raman TRS, Mudappa D (2015) Prey abundance and leopard diet in a plantation and rainforest landscape, Anamalai Hills, Western Ghats. *Current Science* 109: 323-330.
- Stander PE, Haden PJ, Kagece, Ghau (1997) The ecology of asociality in Namibian leopards. *Journal of Zoology* 242:343-364.
- Stuart CT, Stuart TD (1993) Prey of leopards in the western Soutpansberg, South Africa. *Journal of African Zoology* 107:135-137.#####
- Sugimoto AT, Aramilevb VV, Nagatac J, McCulloughd DR (2016) Winter food habits of sympatric carnivores, Amur tigers and Far Eastern leopards, in the Russian Far East. *Mammalian Biology* 81:214-218.
- Taghdisi M, Mohammadi A, Nourani E, Shokri S, Rezaei A, Kaboli M (2013) Diet and habitat use of the endangered Persian leopard (*Panthera pardus saxicolor*) in northeastern Iran. *Turkish Journal of Zoology* 37:554-561.****
- Wang SW, Macdonald DW (2009) Feeding habits and niche partitioning in a predator guild composed of tigers, leopards and dholes in a temperate ecosystem in central Bhutan. *Journal of Zoology* 277:275-283.##
- Whateley AA, Brooks PM (1985) The carnivores of the Hluhluwe and Umfolozi game reserves: 1973–1982. *Lammergeyer* 35:1-27.
- Wegge P, Oddena M, Pokharelb CP, Storaasc T (2008) Predator–prey relationships and responses of ungulates and their predators to the establishment of protected areas: A case study of tigers, leopards and their prey in Bardia National Park, Nepal. *Biological Conservation* 142:189-202.##
- Williams KS, Williams ST, Fitzgerald LE, Sheppard EC, Hill RA (2018) Brown hyaena and leopard diets on private land in the Soutpansberg Mountains, South Africa. *African Journal of Ecology* 56:1021-1027.#####
- Yang H, Dou H, Baniya RK, Han S, Guan Y, Xie B, Zhao G, Wang T, Mou P, Feng L, Ge, J (2018) Seasonal food habits and prey selection of Amur tigers and Amur leopards in Northeast China. *Scientific Reports*, 8(1), 6930.
- Zuberbühler K, Jenny D (2002) Leopard predation and primate evolution. *Journal of Human Evolution* 43:873-886.#####

Lion

- Balme GA, Pitman RT, Robinson HS, Miller JRB, Funston PJ, Huntera LTB (2017) Leopard distribution and abundance is unaffected by interference competition with lions. *Behavioral Ecology* 28:1348-1358.

- Banerjee K, Jhala YV, Chauhan KS, Dave CV (2007) Living with Lions: The Economics of Coexistence in the Gir Forests, India. *PLoS ONE* 8(1): e49457. doi:10.1371/journal.pone.0049457.***
- Berry HH (1981) Abnormal levels of disease and predation as limiting factors for wildebeest in the Etosha National Park. *Madoqua* 12:242-253.
- Beukes M, Radloff FGT, Ferreira SM (2017) Estimating lion's prey species profile in an arid environment. *Journal of Zoology* 303:136-144.
- Bissett C (2008) The feeding and spatial ecologies of the large carnivore guild on Kwandwe Private Game Reserve. PhD thesis, Rhodes University.
- Bodendorfer T, Hoppe-Dominik B, Fischer F, Linsenmair KE (2006) Prey of the leopard (*Panthera pardus*) and the lion (*Panthera leo*) in the Comoé and Marahoué National Parks, Côte d'Ivoire, West Africa. *Mammalia* 37:231-246.
- Breuer T (2005) Diet choice of large carnivores in northern Cameroon. *African Journal of Ecology* 43:181-190.
- Broekhuis F, Thuo D, Hayward MW (2017) Feeding ecology of cheetahs in the Masai Mara, Kenya and the potential for intra- and interspecific competition. *Journal of Zoology* 304:65-72.
- Creel S, Creel NM (2002) *The African wild dog: behaviour, ecology and conservation*. Princeton: Princeton University Press.
- De Boer WF, Vis MJP, De Knecht HJ, Rowles C, Kohi EM, Van Langevelde F, Peel M, Pretorius Y, Skidmore AK, Slotow R, Van Wieren SE, Prins HHT (2010) Spatial distribution of lion kills determined by the water dependency of prey species. *Journal of Mammalogy* 91:1280-1286.
- Dunham KM (1992) Response of a lion (*Panthera leo*) population to changing prey availability. *Journal of Zoology* 221:330-333.
- Elliott JP, Mc Taggart CI (1978) Territoriality, density, and prey of the lion in Ngorongoro Crater, Tanzania. *Canadian Journal of Zoology* 56:1726-1734.
- Eloff FC (1984) Food ecology of the Kalahari Lion *Panthera leo vernayi*. Supplement to *Koedoe* 1984:249-258.****
- Foster JB, McLaughlin R (1968) Nairobi National Park game census, 1967. *East African Wildlife Journal* 6:152-154.###
- Harrington R, Owen-Smith N, Viljoen PC, Biggs HC, Mason DR, Funston P (1999) Establishing the causes of the roan antelope decline in the Kruger National Park, South Africa. *Biological Conservation* 90:69-78.**
- Hayward MW, O'Brien J, Hofmeyr M, Kerley GIH (2007) Testing predictions of the prey of Lion (*Panthera leo*) derived from modelled prey preferences. *The Journal of Wildlife Management* 71:1567-1575.#
- Hirst SM (1969) Populations in a Transvaal lowveld nature reserve. *Zoologica Africana* 4:199-230.
- Hunter LTB (1998) The behavioural ecology of reintroduced lions and cheetahs in the Phinda Resource Reserve, KwaZulu-Natal, South Africa. PhD thesis, University of Pretoria.
- Joslin P (1973) The Asiatic lion: a study of ecology and behaviour. PhD thesis, University of Edinburgh.***
- Kruuk H, Turner M (1967) Comparative notes on predation by Lion, Leopard, Cheetah and Wild Dog in the Serengeti area East Africa. *Mammalia* 3:1-27.*
- Lehmann MB, Funston PJ, Owen CR, Slotow R (2008) Feeding behaviour of lions (*Panthera leo*) on a small reserve. *South African Journal of Wildlife* 38:66-78.

- Loveridge AJ, Hunt JE, Murindagomo F, Macdonald DW (2006) Influence of drought on predation of elephant (*Loxodonta africana*) calves by lions (*Panthera leo*) in an African wooded savannah. *Journal of Zoology* 270:523-530.*****
- Maddock A, Anderson A, Carlisle F, Galli N, James A, Verster A, Whitfield W (1996) Changes in lion numbers in Hluhluwe-Umfolozi Park. *Lammergeyer* 44:6-18.####
- Makacha S, Schaller GB (1969) Observations on lions in the Lake Manyara National Park, Tanzania. *East African Wildlife Journal* 7:99-103.
- Mbizah MM, Marino J, Groom RJ (2012) Diet of four sympatric carnivores in Savé Valley Conservancy, Zimbabwe: implications for conservation of the African wild dog (*Lycaon pictus*). *South African Journal of Wildlife Research* 42:94-103.
- McBride CJ (1984) Age and size categories of lion prey in Chobe National Park, Botswana. *Botswana Notes Records* 16:139-143.##
- Meena V, Jhala JV, Chellam R, Pathak B (2011) Implications of diet composition of Asiatic lions for their conservation. *Journal of Zoology* 284:60-67.***
- Mills MG (1984) Prey selection and feeding habits of the large carnivores in the Southern Kalahari. Supplement to *Koedoe* 1984:281-294.****
- Mitchell BL, Shenton JB, Uys JCM (1965) Predation on large mammals In the Kafue National Park, Zambia. *Zoologica Africana I*: 297-318.
- Pienaar U de V (1969) Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:108-176.**
- Power RJ (2002) Prey selection of lions *Panthera leo* in a small, enclosed reserve. *Koedoe* 45:67-75.
- du Preez B, Purdon J, Trethowan P, Macdonald DW, Loveridge AJ (2017) Dietary niche differentiation facilitates coexistence of two large carnivores. *Journal of Zoology* 302:149-156.
- Radloff FGT, Du Toit JT (2004) Large predators and their prey in a southern African savanna: a predator's size determines its prey size range. *Journal of Animal Ecology* 73:410-423.
- Rapson JA, Bernard RTF (2007) Interpreting the diet of lions (*Panthera leo*); a comparison of various methods of analysis. *South African Journal of Wildlife Research* 37:179-187.#
- Rudnai J (1974) The pattern of lion predation in Nairobi Park. *East African Wildlife Journal* 12: 213-225.###
- Ruggiero RG (1991) Prey selection of the lion (*Panthera leo* L.) in the Manovo-Gounda-St. Floris National Park, Central African Republic. *Mammalia* 55:23-33.
- Schaller GB (1972) The Serengeti lion. University of Chicago Press, Chicago, Illinois.*
- Standers PE (1992) Foraging dynamics of lions in a semi-arid environment. *Canadian Journal of Zoology* 70:8-21.
- Steele NA (1970) A preliminary report on the lions in the Umfolozi and Hluhluwe Game Reserves. *Lammergeyer* 11:68-79.####
- Tumenta PN, Visser HD, van Rijssel J, Muller L, de longh HH, Funston PJ, de Haes HAU (2013) Lion predation on livestock and native wildlife in Waza National Park, northern Cameroon. *Mammalia* 77:247-251.
- Viljoen PC (1993) The effects of changes in prey availability on lion predation in a natural ecosystem in northern Botswana. *Symposia of the Zoological Society of London* 65:193-213.##
- Vorster PH (2011) The feeding and spatial ecology of Cheetahs (*Acinonyx Jubatus*) and Lions (*Panthera leo*) in the Little Karoo, South Africa. MSc thesis, Rhodes University.

Wilson DS (1975) The adequacy of body size as a niche difference. *American Naturalist* 109:769-784.*****

Puma

- Ackerman BB, Lindzey FG, Hemker TP (1984) Cougar food habits in Southern Utah. *Journal of Wildlife Management* 48:147-155.
- Allen ML, Elbroch LM, Casady DS, Wittmer HU (2014) Seasonal variation in the feeding ecology of pumas (*Puma concolor*) in northern California. *Canadian Journal of Zoology* 92:397-403.
- Anderson CR Jr., Lindzey FG (2003) Estimating cougar predation rates from GPS location clusters. *Journal of Wildlife Management* 67:307-316.
- Aranda M, Sánchez-Cordero V (2006) Prey spectra of Jaguar (*Panthera onca*) and puma (*Puma concolor*) in Tropical Forests of Mexico. *Studies on Neotropical Fauna and Environment* 31: 65-67.
- Atwood TC, Gese EM, Kunkel KE (2007) Comparative Patterns of Predation by Cougars and Recolonizing Wolves in Montana's Madison Range. *Journal of Wildlife Management* 71:1098-1106.
- Ávila-Nájera DM, Palomares F, Chávez C, Tigar B, Mendoza G.D (2018) Jaguar (*Panthera onca*) and puma (*Puma concolor*) diets in Quintana Roo, Mexico. *Animal Biodiversity and Conservation* 41:257-266.
- Azevedo FC (2008) Food Habits and Livestock Depredation of Sympatric Jaguars and Pumas in the Iguaçu National Park Area, South Brazil. *Biotropica* 40: 494-500.
- Bacon MM (2010) The Ecology of a Re-established Cougar (*Puma concolor*) Population in southeastern Alberta and southwestern Saskatchewan. MSc thesis, University of Alberta.
- Bartnick TD, Van Deelen TR, Quigley HB, Craighead D (2013) Variation in cougar (*Puma concolor*) predation habits during wolf (*Canis lupus*) recovery in the southern Greater Yellowstone Ecosystem. *Canadian Journal of Zoology* 91:82-93.
- Blake LW, Gese EM (2016) Resource selection by Cougars: influence of behavioral state and season. *Journal of Wildlife Management* 80:1205-1217.
- Branch LC, Pessino M, Villarreal D (1999) Response of pumas to a population decline of the plains Vizcacha. *Journal of Mammalogy* 77:1132-1140.
- Cashman JL, Peirce M, Krausman PR (1992) Diets of Mountain Lions in Southwestern Arizona. *The Southwestern Naturalist*. 37:324-326.
- Clark DA, Davidson GA, Johnson BK, Anthony RG (2014) Cougar Kill Rates and Prey Selection in a Multiple-Prey System in Northeast Oregon. *The Journal of Wildlife Management* 78:1161-1176.
- Cooley HS, Robinson HS, Wielgus RB, Lambert CS (2008) Cougar Prey Selection in a White-Tailed Deer and Mule Deer Community. *Journal of Wildlife Management* 72:99-106.
- Cunningham SC, Gustavson CR, Ballard WB (1992) Diet Selection of Mountain Lions in Southeastern Arizona. *Journal of Range Management* 52:202-207.
- de la Torre JA, de la Riva G (2009) Food habits of pumas (*Puma concolor*) in a semiarid region of central Mexico. *Mastozoología Neotropical* 16(1).
- Donadio E, Novaro AJ, Buskirk SW, Wurstten A, Vitali MS, Monteverde MJ (2010) Evaluating a potentially strong trophic interaction: pumas and wild camelids in protected areas of Argentina. *Journal of Zoology* 280:33-40.
- Elbroch LM, Wittmer HU (2013) The effects of puma prey selection and specialization on less abundant prey in Patagonia. *Journal of Mammalogy* 94:259-268.

- Foster RJ, Harmsen BJ, Valdes B, Pomilla C, Doncaster CP (2010) Food habits of sympatric jaguars and pumas across a gradient of human disturbance. *Journal of Zoology* 280:309-318.
- Gelin ML, Branch LC, Thornton DH, Novaro AJ, Gould MJ, Caragiulo A (2017) Response of pumas (*Puma concolor*) to migration of their primary prey in Patagonia. *PLoS ONE* 12(12): 1 – 16. <https://doi.org/10.1371/journal.pone.0188877>
- Gómez-Ortiz Y, Monroy-Vilchis O (2013) Feeding ecology of puma *Puma concolor* in Mexican montane forests with comments about jaguar *Panthera onca*. *Wildlife Biology* 19:179-187.*
- Gómez-Ortiz Y, Monroy-Vilchis O, Mendoza-Martínez GD (2015) Feeding interactions in an assemblage of terrestrial carnivores in central Mexico. *Zoological Studies* 54:1-8.*
- Harveson LA, Tewes ME, Silvy NJ, Rutledge J (2000) Prey use by mountain lions in Southern Texas. *The Southwestern Naturalist* 45:472-476.
- Hass CC (2009) Competition and coexistence in sympatric bobcats and pumas. *Journal of Zoology* 278:174-180.
- Hornocker MG (1970) An analysis of mountain lion predation upon mule deer and elk in the Idaho Primitive Area. *Wildlife Monographs* 21:3-39.
- Hussemann JS, Murray DL, Power G, Mack C, Wenger CR, Quigley H (2003) Assessing differential prey selection patterns between two sympatric large carnivores. *Oikos* 101:591-601.
- Kertson BN, Spencer RD, Grue CE (2011) Cougar prey use in a wildland-urban environment in Western Washington. *Northwestern Naturalist* 92:175-185.
- Knopff KH, Knopff AA, Kortello A, Boyce MS (2010) Cougar kill rate and prey composition in a multiprey system. *Journal of Wildlife Management* 74:1435-1447.
- Kunkel KE, Ruth TK, Pletscher DH, Hornocker MG (1999) Winter prey selection by wolves and cougars in and near Glacier National Park Montana. *Journal of Wildlife Management* 63:901-910.
- Leopold BD, Krausman PR (1986) Diets of 3 predators in Big Bend National Park, Texas. *Journal of Wildlife Management* 50:290-295.
- Lowrey B, Elbroch LM, Broberg L (2016) Is individual prey selection driven by chance or choice? A case study in cougars (*Puma concolor*). *Mammal Research* 61:353-359.
- Maehr DS, Belden RC, Darrell Land E, Wilkins L (1990) Food habits of panthers in southwest Florida. *Journal of Wildlife Management* 54:420-423.
- Maser C, Rohweder RS (1983) Winter food habits of cougars from northeastern Oregon. *Great Basin Naturalist* 43:425-428.
- Monroy-Vilchis O, Gómez Y, Janczur M, Urios V (2010) Food niche of *Puma concolor* in Central Mexico. *Wildlife Biology* 15:97-105.*
- Moreno RS, Kays RW, Samudio R Jr (2006) Competitive release in diets of ocelot (*Leopardus pardalis*) and puma (*Puma concolor*) after jaguar (*Panthera onca*) decline. *Journal of Mammalogy* 87:808-816.
- Novack AJ, Main MB, Sunquist ME, Labisky RF (2005) Foraging ecology of jaguar (*Panthera onca*) and puma (*Puma concolor*) in hunted and non-hunted sites within the Maya Biosphere Reserve, Guatemala. *Journal of Zoology* 267:167-178.
- Novaro AJ, Funes MC, Walker RS (2000) Ecological extinction of native prey of a carnivore assemblage in Argentine Patagonia. *Biological Conservation* 92:25-33.
- Núñez R, Miller B, Lindzey F (2000) Food habits of jaguars and pumas in Jalisco, Mexico. *Journal of Zoology* 252:373-379.
- Pacheco LF, Lucero A, Villca M (2004) Dieta of puma (*Puma concolor*) in Sajama National Park, Bolivia and its conflict with livestock. *Ecología en Bolivia* 39:75-83.

- Pia MV (2013) Trophic interactions between puma and endemic culpeo fox after livestock removal in the high mountains of central Argentina. *Mammalia* 77:273-283.
- Rosas-Rosas OC, Bender LC, Valdez R (2008) Jaguar and Puma Predation on Cattle Calves in Northeastern Sonora, Mexico. *Rangeland Ecology & Management* 61:554-560.
- Rosas-Rosas OC, Valdez R, Bender LC, Daniel D (2003) Food habits of pumas in northwestern Sonora, Mexico. *Wildlife Society Bulletin* 31:528-535.
- Ross PI, Jalkotzy MG, Festa-Bianchet M (1997) Cougar predation on bighorn sheep in southwestern Alberta during winter. *Canadian Journal of Zoology* 74:771-775.
- Rueda P, Mendoza GD, Martínez D, Rosas-Rosas OC (2013): Determination of the jaguar (*Panthera onca*) and puma (*Puma concolor*) diet in a tropical forest in San Luis Potosi, Mexico. *Journal of Applied Animal Research* 41:484-489.
- Scognamillo D, Maxit IE, Sunquist M, Polisar J (2004) Coexistence of jaguar (*Panthera onca*) and puma (*Puma concolor*) in a mosaic landscape in the Venezuelan llanos. *Journal of Zoology* 259:269-279.
- Smith JA, Wang Y, Wilmers CC (2016) Spatial characteristics of residential development shift large carnivore prey habits. *Journal of Wildlife Management* 80:1040-1048.
- Taber AB, Novaro AJ, Neris N, Colman FH (1997) The food habits of sympatric Jaguar and Puma in the Paraguayan Chaco. *Biotropica* 29:204-213.
- Villepique JT, Pierce BM, Bleich VC, Bowyer RT (2011) Diet of cougars (*Puma Concolor*) following a decline in a population of mule deer (*Odocoileus Hemionus*): lack of evidence for switching prey. *The Southwestern Naturalist* 56:187-192.
- White KR, Koehler GM, Maletzke BT, Wielgus RB (2011) Differential prey use by male and female cougars in Washington. *Journal of Wildlife Management* 75:1115-1120.
- Wilckens DT, Smith JB, Tucker SA, Thompson DJ, Jenks JA (2016) Mountain lion (*Puma concolor*) feeding behavior in the Little Missouri Badlands of North Dakota. *Journal of Mammalogy* 97:373-385.
- Yáñez JL, Cárdenas JC, Gezelle P, Jaksić FM (1966) Food habits of the Southernmost Mountain lions (*Felis concolor*) in South America: natural versus livestocked ranges. *Journal of Mammalogy* 67: 604-606.
- Zanón-Martínez JI, Santillán MA, Sarasola JH, Travaini A (2016) A native top predator relies on exotic prey inside a protected area: The puma and the introduced ungulates in Central Argentina. *Journal of Arid Environments* 134:17-20.
- Zanón-Martínez JI, Travaini A, Procopio SZD, Santillán MA (2012) The ecological role of native and introduced species in the diet of the puma *Puma concolor* in southern Patagonia. *Oryx* 46:106-111.

Snow leopard

- Anwar MB, Jackson R, Nadeem MS, Janečka JE, Hussain S, Beg MA, Muhammad G, Qayyum M (2011) Food habits of the snow leopard *Panthera uncia* (Schreber, 1775) in Baltistan, Northern Pakistan. *European Journal of Wildlife Research* 57:1077-1083.
- Bagchi S, Mishra C (2006) Living with large carnivores: predation on livestock by the snow leopard (*Uncia uncia*). *Journal of Zoology* 268:217-224.
- Bocci A, Lovari S, Khan MZ, Mori E (2017) Sympatric snow leopards and Tibetan wolves: coexistence of large carnivores with human-driven potential competition. *European Journal of Wildlife Research* 63:1-9. <https://doi.org/10.1007/s10344-017-1151-0>

- Chetri M, Odden M, Wegge P (2017) Snow Leopard and Himalayan wolf: food habits and prey selection in the Central Himalayas, Nepal. 82017) *PLoS ONE* 12(2): 1 – 16. e0170549. doi:10.1371/journal.pone.0170549.
- Chundawat TS, Rawat GS (1994) Food habits of snow leopard in Ladakh, India. In: Fox JL, Jizeng D (eds.) *Proceedings of the Seventh International Snow Leopard Symposium*. International Snow Leopard Trust, Seattle, USA:127-132.
- Devkota BP, Silwal T, Kolejka J (2013) Prey density and diet of snow leopard (*Uncia uncia*) In Shey Phoksundo National Park, Nepal. *Applied Ecology and Environmental Sciences* 1:55-60.*
- Jackson RM (1996) Home range, movements and habitat use of snow leopard (*Uncia uncia*) in Nepal. PhD thesis, University of London.
- Khatoon R (2010) Diet selection of snow leopard (*Uncia uncia*) in Chitral Area. MSc thesis, Agriculture University Rawalpindi, Pakistan.
- Lovari S, Minder I, Ferretti F, Mucci N, Randi E, Pellizzi B (2013) Common and snow leopards share prey, but not habitats: competition avoidance by large predators? *Journal of Zoology* 291:127-135.
- Oli MK, Taylor IR, Rogers DM (1993) Diet of the snow leopard (*Panthera uncia*) in the Annapurna Conservation Area, Nepal. *Journal of Zoology* 231:365-370.
- Schaller GB (1977) Mountain monarchs: wild sheep and goats of the Himalaya. University of Chicago Press, Chicago, USA.*
- Schaller GB, Hong L, Hua L, Junrang R, Mingjiang Q, Haibin W (1987) Status of large mammals in the Taxkorgan Reserve, Xinjiang, China. *Biological Conservation* 42:53-71.
- Schaller GB, Hong L, Talipu, Junrang R, Mingjiang Q (1988) The snow leopard in Xinjiang, China. *Oryx* 22:197-204.
- Schaller GB, Junrang R, Mingjiang Q (1988) Status of the snow leopard *Panthera uncia* in Quinghai and Gansu Provinces, China. *Biological Conservation* 45:179-194.
- Shehzad W, McCarthy TM, Pompanon F, Purevjav L, Coissac E, Riaz T, Taberlet P (2012) Prey Preference of Snow Leopard (*Panthera uncia*) in South Gobi, Mongolia. *PLoS ONE* 7(2): 1 – 8.
- Wegge P, Shrestha R, Flagstad Ø (2012) Snow leopard *Panthera uncia* predation on livestock and wild prey in a mountain valley in northern Nepal: implications for conservation management. *Wildlife Biology* 18:131-141.

Spotted hyaena

- Bearder SK (1977) Feeding habits of spotted hyaenas in a woodland habitat. *East African Wildlife Journal* 15:263-280.
- Breuer T (2005) Diet choice of large carnivores in northern Cameroon. *African Journal of Ecology* 43:181–190.
- Cooper SM (1990) The hunting behaviour of spotted hyaenas (*Crocuta crocuta*) in a region containing both sedentary and migratory populations of herbivores. *African Journal of Ecology* 28:131-141.
- Cooper SM, Holekamp KE, Smale L (1999) A seasonal feast: long-term analysis of feeding behaviour in the spotted hyaena (*Crocuta crocuta*). *African Journal of Ecology* 37:149–160.
- Di Silvestre I, Novelli O, Bogliani G (2000) Feeding habits of the spotted hyaena in the Niokolo Koba National Park, Senegal. *African Journal of Ecology* 38:102–107.

- Henschel JR, Skinner JD (1990) The diet of the spotted hyaenas *Crocuta crocuta* in Kruger National Park. *African Journal of Ecology* 28:69-82.
- Hirst SM (1969) Populations in a Transvaal lowveld nature reserve. *Zoologica Africana* 4:199-230.
- Höner OP, Wachter B, East ML, Hofer H (2002) The response of spotted hyaenas to long-term changes in prey populations: functional response and interspecific kleptoparasitism. *Journal of Animal Ecology* 71:236-246.*
- Kruuk H (1972) *The spotted hyena: a study of predation and social behavior*. University of Chicago Press, Chicago.*
- Mbizah MM, Marino J, Groom RJ (2012) Diet of four sympatric carnivores in Savé Valley Conservancy, Zimbabwe: implications for conservation of the African wild dog (*Lycan pictus*). *South African Journal of Wildlife Research* 42:94-103.
- Mills MG (1984) Prey selection and feeding habits of the large carnivores in the Southern Kalahari. *Supplement to Koedoe* 1984:281-294.
- Périquet S, Valeix M, Claypole J, Drouet-Hoguet N, Salnicki J, Mudimba S, Revilla E, Fritz H (2015) Spotted hyaenas switch their foraging strategy as a response to changes in intraguild interactions with lions. *Journal of Zoology* 297:246-254.
- Rdush V (2017) A snapshot into the spotted hyaena's feeding ecology (*Crocuta crocuta*) in the Miombo woodland of Zambia. *African Journal of Ecology* 55:372-375.
- Sillero-Zubiri C, Gottelli D (1992) Feeding ecology of spotted hyaena (Mammalia: *Crocuta crocuta*) in a mountain forest habitat. *Journal of African Zoology* 106:169-176.
- Skinner JD, Funston PJ, Van Aarde RJ, Van Dyk G, Haupt MA (1992) Diet of spotted hyaenas in some mesic and arid southern African game reserves adjoining farmland. *South African Journal of Wildlife Research* 22:119-121.
- Tilson R, von Blottnitz F, Henschel J (1980) Prey selection by spotted hyaena (*Crocuta crocuta*) in the Namib Desert. *Madoqua* 12:41-49.
- Trinkel M (2010) Prey selection and prey preferences of spotted hyenas *Crocuta crocuta* in the Etosha National Park, Namibia. *Ecological Research* 25:413-417.
- Yirga G, Bauer H, Gebrihiwot K, Deckers J (2011) Peri-urban spotted hyena (*Crocuta crocuta*) in Northern Ethiopia: diet, economic impact, and abundance. *European Journal of Wildlife Research* 57:759-765.
- Yirga G, Ersino W, De longh HH, Leirs H, Gebrehiwot K, Deckers J, Bauer H (2013) Spotted hyena (*Crocuta crocuta*) coexisting at high density with people in Wukro district, northern Ethiopia. *Mammalian Biology* 78:193-197.

Tiger

- Andheria AP, Karanth KU, Kumar NS (2007) Diet and prey profiles of three sympatric large carnivores in Bandipur Tiger Reserve, India. *Journal of Zoology* 273:169-175.
- Avinandan D, Sankar K, Qureshi Q (2008) Prey selection by tigers (*Panthera tigris tigris*) in Sariska Tiger Reserve, Rajasthan, India. *Journal of the Bombay Natural History Society* 105:247-254.*
- Bagchi S, Goyal SP, Sankar K (2003) Prey abundance and prey selection by tigers (*Panthera tigris*) in a semi-arid, dry deciduous forest in western India. *Journal of Zoology* 260:285-290.
- Bhandari S, ChaliseMK, Pokharel CP (2017) Diet of Bengal tigers (*Panthera tigris tigris*) in Chitwan National Park, Nepal. *European Journal of Ecology* 3:80-84. ****

- Bhattacharai BP, Kindlmann P (2012) Interactions between Bengal tiger (*Panthera tigris*) and leopard (*Panthera pardus*): implications for their conservation. *Biodiversity and Conservation* 21:2075-2094.****
- Chundawat RS, Gogate N, Johnsingh AJT (1999) Tigers in Panna: preliminary results from an Indian tropical dry forest. In: Seidensticker J, Jackson P, Christie S (Eds) *Riding the tiger: tiger conservation in human-dominated landscapes*. Cambridge University Press: 123–129.
- Edgaonkar A (2008) Ecology of the leopard (*Panthera pardus*) in Bori Wildlife Sanctuary and Satpura National Park, India. PhD thesis, University of Florida.
- Gu J, Yu L, Hua Y, Ning Y, Heng B, Qi J, Long Z, Yao M, Huang C, Li Z, Lang J, Kiang G, Ma J (2018) A comparison of food habits and prey preferences of Amur tiger (*Panthera tigris altaica*) at the southwest Primorskii Krai in Russia and Hunchun in China. *Integrative Zoology* 13:595-603.
- Harihar A, Pandav B, Goyal SP (2011) Responses of leopard *Panthera pardus* to the recovery of a tiger *Panthera tigris* population. *Journal of Applied Ecology* 48:806-814.
- Joseph S, Thomas AP, Satheesh R, Sugathan R (2007) Foraging ecology and relative abundance of large carnivores In Parambikulam Wildlife Sanctuary, Southern India. *Zoos' Print Journal* 22:2667-2670.
- Kapfer PM, Streby HM, Gurung B, Simcharoen A, McDougal CC, Smith JLD (2011) Fine-scale spatio-temporal variation in tiger *Panthera tigris* diet: effect of study duration and extent on estimates of tiger diet in Chitwan National Park, Nepal. *Wildlife Biology* 17:277-285.****
- Karanth KU, Sunquist ME (1995) Prey Selection by Tiger, Leopard and Dhole in Tropical Forests. *Journal of Animal Ecology* 64:439-450.
- Khan MMH (2004) Ecology and conservation of the Bengal tiger in the Sundarbans mangrove forest of Bangladesh. PhD thesis, University of Cambridge.*****
- Lovari S, Pokheral CP, Jnawali SR, Fusani L, Ferretti F (2015) Coexistence of the tiger and the common leopard in a prey-rich area: the role of prey partitioning. *Journal of Zoology* 295:122-131.
- Lyngdoh S, Gopi GV, Selvan KM, Habib B (2014) Effect of interactions among ethnic communities, livestock and wild dogs (*Cuon alpinus*) in Arunachal Pradesh, India. *European Journal of Wildlife Research* 60:771-780.***
- Majdumer A, Sankar K, Qureshi Q, Basu S (2013) Predation ecology of large sympatric carnivores as influenced by available wild ungulate prey in a tropical deciduous forest of Central India. *Journal of Tropical Ecology* 29:417-426.
- McDougal C (1977) *The face of the tiger*. Rivington Books, London.****
- Mondal K, Gupta S, Bhattacharjee S, Qureshi Q, Sankar K (2012) Prey selection, food habits and dietary overlap between leopard *Panthera pardus* (Mammalia:Carnivora) and re-introduced tiger *Panthera tigris* (Mammalia: Carnivora) in a semi-arid forest of Sariska Tiger Reserve, Western India. *Italian Journal of Zoology* 79:607-616.*
- Mukherjee S, Sarkar NS (2013) The range of prey size of the Royal Bengal Tiger of Sundarbans. *Journal of Ecosystems* Volume 2013, Article ID 351756:1 – 7.
<http://dx.doi.org/10.1155/2013/351756> *****
- Rabinowitz A (1989) The density and behavior of large cats in a dry tropical forest mosaic in Huai Kha Kaeng Wildlife Sanctuary, Thailand. *Natural History Bulletin of the Siam Society* 37: 235-251.
- Ramesh T, Snehalatha V, Sankar K, Qureshi Q (2009) Food habits and prey selection of tiger and leopard in Mudumalai Tiger Reserve, Tamil Nadu, India. *Journal of Scientific Transactions in Environment and Technovation* 2: 170-181.**

- Ramesh T, Kalle R, Sankar K, Qureshi Q (2012) Dietary partitioning in sympatric large carnivores in a tropical forest of Western Ghats, India. *Mammal Study* 37:313-322.**
- Reddy HS, Srinivasulu C, Rao KT (2004) Prey selection by the Indian tiger (*Panthera tigris tigris*) in Nagarjunasagar Srisailem Tiger Reserve, India. *Mammalian Biology* 69:384-391.
- Rice CG (1986) Observations on predators and prey at Eravikulam National Park, Kerala. *Journal of the Bombay Natural History Society* 83:283-305.
- Sankar K, Johnsingh AJT (2002) Food habits of Tiger (*Panthera tigris*) and Leopard (*Panthera pardus*) in Sariska Tiger Reserve, Rajasthan, India, as shown by scat analysis. *Mammalia* 66:285-289.*
- Sarkar MS, Segu H, Bhaskar JV, Mohapatra RJS, Shalini K, Shivaji, Anuradhareddy A (2017) Ecological preferences of large carnivores in remote, high-altitude protected areas: insights from Buxa Tiger Reserve, India. *Oryx* 52:1-12.
- Schaller GB (1967) *The Deer and the Tiger*, University of Chicago Press, Chicago, Illinois.
- Selvan KM, Veeraswami GG, Lyngdoh S, Habib B, Hussain SA (2013) Prey selection and food habits of three sympatric large carnivores in a tropical lowland forest of the Eastern Himalayan Biodiversity Hotspot. *Mammalian Biology* 78:296-303.***
- Shirbhate MV (2008) Quantification of predation and incidence of parasitic infestation In Melghat Tiger Reserve with special reference to tigers (*Panthera tigris*). *The Ecoscan* 2:229-235.
- Sugimoto T, Aramilev V V, Nagata J, McCullough DR (2016) Winter food habits of sympatric carnivores, Amur tigers and Far Eastern leopards, in the Russian Far East. *Mammalian Biology* 81:214-218.
- Wang SW, Macdonald DW (2009) Feeding habits and niche partitioning in a predator guild composed of tigers, leopards and dholes in a temperate ecosystem in central Bhutan. *Journal of Zoology* 277:275-283.
- Wegge P, Odden M, Pokharel CP, Storaas T (2008) Predator–prey relationships and responses of ungulates and their predators to the establishment of protected areas: A case study of tigers, leopards and their prey in Bardia National Park, Nepal. *Biological Conservation* 142:189-202.
- Yang H, Dou H, Baniya RK, Han S, Guan Y, Xie B, Zhao G, Wang T, Mou P, Feng L, Ge, J (2018) Seasonal food habits and prey selection of Amur tigers and Amur leopards in Northeast China. *Scientific Reports*, 8(1), 6930.

Wolf

- Ansorge H, Kluth G, Hahne S (2006) Feeding ecology of wolves *Canis lupus* returning to Germany. *Acta Theriologica* 51:99-106.
- Anwar MB, Nadeem MS, Shah SI, Kiayani AR, Mushtaq M (2012) A note on the diet of Indian wolf (*Canis lupus*) in Baltistan, Pakistan. *Pakistan Journal of Zoology* 44:588-591.
- Arjo WM, Pletscher DH, Ream RR (2002) Dietary overlap between wolves and coyotes in northwestern Montana. *Journal of Mammalogy* 83:754-766.
- Atwood TC, Gese EM, Kunkel KE (2007) Comparative Patterns of Predation by Cougars and Recolonizing Wolves in Montana's Madison Range. *Journal of Wildlife Management* 71:1098-1106.
- Ballard WB, Whitman JS, Gardner CL (1987) Ecology of an exploited wolf population in south-central Alaska. *Wildlife Monographs* 98:3-54.
- Barja I (2009) Prey and prey-age preference by the Iberian wolf *Canis lupus signatus* in a multiple-prey ecosystem. *Wildlife Biology* 15:147-154.

- Bocci A, Lovari S, Khan MZ, Mori E (2017) Sympatric snow leopards and Tibetan wolves: coexistence of large carnivores with human-driven potential competition. *European Journal of Wildlife Research* 63:1-9. <https://doi.org/10.1007/s10344-017-1151-0>
- Bryan HM, Darimont CT, Reimchen TE, Paquet PC (2006) Early ontogenetic diet in gray wolves, *Canis lupus*, of coastal British Columbia. *Canadian Field-Naturalist* 120:61-66.
- Capitani C, Bertelli I, Varuzza P, Scandura M, Apollonio M (2004) A comparative analysis of wolf (*Canis lupus*) diet in three different Italian ecosystems. *Mamm. Biol.* 69 (1) : 1 – 10.
- Capitani C, Chynoweth M, Kusak J, Coban E, Şekercioglu CH (2016) Wolf diet in an agricultural landscape of north-eastern Turkey. *Mammalia* 80:329-334.
- Carrera R, Ballard W, Gipson P, Kelly BT, Krausman PR, Wallace MC, Villalobos C, Wester DB (2008) Comparison of Mexican wolf and coyote diets in Arizona and New Mexico. *Journal of Wildlife Management* 72:376-381.*
- Chetri M, Odden M, Wegge P (2017) Snow Leopard and Himalayan wolf: food habits and prey selection in the Central Himalayas, Nepal. 82017) *PLoS ONE* 12(2): 1 – 16. e0170549. doi:10.1371/journal.pone.0170549.
- Ciucci P, Artoni L, Crispino F, Tosoni E, Boitani L (2018) Inter-pack, seasonal and annual variation in prey consumed by wolves in Pollino National Park, southern Italy. *European Journal of Wildlife Research* 64(1), 5.
- Ciucci P, Boitani L, Pelliccioni E R, Rocco M, Guy I (1996). A comparison of scat-analysis methods to assess the diet of the wolf *Canis lupus*. *Wildlife Biology* 2:37-48.
- Cowan I McT (1947) The timber wolf in the rocky mountain national parks of Canada. *Canadian Journal of Research* 25:139-174.
- Darimont CT, Paquet PC, Reimchen TE (2008) Spawning salmon disrupt trophic coupling between wolves and ungulate prey in coastal British Columbia. *BMC Ecology* 8:1-12.
- Darimont CT, Price MHH, Winchester NN, Gordon-Walker J, Paquet PC (2004) Predators in natural fragments: foraging ecology of wolves in British Columbia's central and north coast archipelago. *Journal of Biogeography* 31:1867-1877.
- Davis ML, Stephens PH, Willis SG, Bassi E, Marcon A, Donaggio E, Capitani C, Apollonio M (2012) Prey selection by an Apex Predator: The importance of Sampling Uncertainty. *PLoS ONE* 7(10):1-10.
- Fox JL, Streveler GP (1986) Wolf Predation on Mountain Goats in Southeastern Alaska. *Journal of Mammalogy* 67:192-195.
- Fritts SH, Mech LD (1981) Dynamics, movements, and feeding ecology of a newly protected wolf population in Northwestern Minnesota. *Wildlife Monographs* 80:3-79.
- Fuller TK (1989) Population Dynamics of Wolves in North-Central Minnesota. *Wildlife Monographs* 105:3-41.
- Fuller TK, Keith LB (1980) Wolf population dynamics and prey relationships in northeastern Alberta. *Journal of Wildlife Management* 44:583-602.
- Hosseini-Zavarei F, Farhadinia MS, Beheshti-Zavareh M, Abdoli (2013) Predation by grey wolf on wild ungulates and livestock in central Iran. *Journal of Zoology* 250:127-134.
- Huggard D (1993) Prey selectivity of wolves in Banff National Park. I. Prey species. *Canadian Journal of Zoology* 71:130-139.
- Husseman JS, Murray DL, Power G, Mack C, Wenger CR, Quigley H (2003) Assessing differential prey selection patterns between two sympatric large carnivores. *Oikos* 101:591-601.

- Imbert C, Caniglia R, Fabbri E, Milanese P, Randi R, Serafini M, Torretta E, Meriggi A (2016) Why do wolves eat livestock? Factors influencing wolf diet in northern Italy. *Biological Conservation* 195:156-168.
- James ARC (1999) Effects of industrial development on the predator-prey relationship between wolves and caribou in Northeastern Alberta. PhD thesis, University of Edmonton.
- Jedrzejewski W, Jedrzejewska B, Okarma H, Schmidt K, Zub K, Musiani M (2000) Prey selection and predation by wolves in Białowieża Primeval Forest, Poland. *Journal of Mammalogy* 81:197-212.
- Jedrzejewski W, Niedziałkowska M, Hayward MW, Goszczynski J, Jedrzejewska B, Borowik T, Barton KA, Nowak S, Harmuszkiewicz J, Juszczyk A, Kałamarz T, Kloch A, Koniuch J, Kotiuk K, Mysłajek RW, Nedzyska, Olczyk A, Teleon M, Wojtulewicz M (2012) Prey choice and diet of wolves related to ungulate communities and wolf subpopulations in Poland. *Journal of Mammalogy* 93:1480-1492.
- Jethva BD, Jhala YV (2004) Foraging ecology, economics and conservation of Indian wolves in the Bhal region of Gujarat, Western India. *Biological Conservation* 116:351-357.
- Jhala YV (1993) Predation on blackbuck by wolves in Velavadar National Park, Gujarat, India. *Conservation Biology* 7:874-881.
- Kohira M, Rexstad EA (1997) Diets of wolves, *Canis lupus*, in logged and unlogged forests of southeastern Alaska. *Canadian Field-Naturalist* 111:429-435.
- Kübarsepp M, Valdmann H (2003) Winter diet and movements of wolf (*Canis lupus*) in Alam-Pedja Nature Reserve, Estonia. *Acta Zoologica Lituanica* 13:28-33.
- Kunkel KE, Ruth TK, Pletscher DH, Hornocker MG (1999) Winter prey selection by wolves and cougars in and near Glacier National Park Montana. *Journal of Wildlife Management* 63:901-910.
- Lafferty DJR, Belant JL, White KS, Womble JN, Morzillo AT, Giguère N (2014) Linking wolf diet to changes in marine and terrestrial prey abundance. *Arctic* 67:143-148.
- Lagos L, Bárcena F (2018) Spatial variability in wolf diet and prey selection in Galicia (NW Spain). *Mammal Research* 63:125-139.
- Lanszki J, Márkus M, Újváry D, Szabó A, Szemethy L (2012) Diet of wolves *Canis lupus* returning to Hungary. *Acta Theriologica* 57:189-193.
- Liu B, Jiang Z (2003) Diet composition of wolves *Canis lupus* in the northeastern Qinghai-Tibet Plateau, China. *Acta Theriologica* 48:255-263.
- Llaneza L, López-Bao JV (2015) Indirect effects of changes in environmental and agricultural policies on the diet of wolves. *European Journal of Wildlife Research* 61:895-902.
- Lukarevsky VS (1988) Feeding of leopard (*Panthera pardus*), striped hyena (*Hyaena hyaena*) and wolf (*Canis lupus*) in the south-west Koppeh Dag. *Zoologicheskij Zhurnal* 57:310-311.
- Marquard-Petersen U (1998) Food habits of arctic wolves in Greenland. *Journal of Mammalogy* 79:236-244.
- Mattioli L, Apollonio M, Mazzarone V, Centofanti E (1995) Wolf food habits and wild ungulate availability in the Foreste Cesentinesi National Park, Italy. *Acta Theriologica* 40:387-402.
- Maurya KK, Habib B, Kumar S (2011) Food habits of Indian wolf (*Canis lupus pallipes*) in Deccan Plateau of Maharashtra, India. *World Journal of Zoology* 6:318-322.
- Meriggi A, Dagradi V, Dondina O, Perversi M, Milanese P, Lombardini M, Raviglione S, Repposi A (2015) Short-term responses of wolf feeding habits to changes of wild and domestic ungulate abundance in Northern Italy. *Ethology Ecology & Evolution* 27:389-411.

- Merkle JA, Krausman PR, Stark DW, Oakleaf JK, Ballard WB (2009) Summer diet of the Mexican gray wolf (*Canis lupus baileyi*). *The Southwestern Naturalist* 54:480-485.*
- Messier F, Crete M (1985) Moose-wolf dynamics and the natural regulation of moose populations. *Oecologia* 65:503-512.
- Migli D, Youlatos D, Iliopoulos Y (2005) Winter food habits of wolves in central Greece. *Journal of Biological Research* 4:217-220.
- Milakovic B, Parker KL (2011) Using stable isotopes to define diets of wolves in northern British Columbia, Canada. *Journal of Mammalogy* 92:295-304.
- Milanesi P, Meriggi A, Merli E (2012) Selection of wild ungulates by wolves *Canis lupus* (L. 1758) in an area of the Northern Apennines (North Italy). *Ethology Ecology & Evolution* 24:81-96.
- Morehouse AT, Boyce MS (2011) From venison to beef: seasonal changes in wolf diet composition in a livestock grazing landscape. *Frontiers in Ecology and the Environment* 9(8):440-445.
- Müller, S. (2006). Diet composition of wolves (*Canis lupus*) on the Scandinavian peninsula determined by scat analysis. MSc thesis, Technical University of München, Germany.
- Murie, A. (1944). *The wolves of Mount McKinley*. University of Washington Press.
- Nowak S, Mysłajek RW, Jędrzejewska B (2005) Patterns of wolf *Canis lupus* predation on wild and domestic ungulates in the Western Carpathian Mountains (S Poland). *Acta Theriologica* 50:263-276.
- Nowak S, Mysłajek RW, Kłosinska A, Gabrys G (2011) Diet and prey selection of wolves (*Canis lupus*) recolonising Western and Central Poland. *Mammalian Biology* 76:709-715.
- Peterson RO (1997) Wolf ecology and prey relationships on Isle Royale. *National Park Service Scientific Monograph Series* 11:1-210.**
- Peterson RO, Woolington JD, Bailey TN (1984) Wolves of the Kenai Peninsula, Alaska. *Wildlife Monographs* 88:3-52.
- Popp JN, Hamr J, Larkin JL, Mallory FF (2018) Black bear (*Ursus americanus*) and wolf (*Canis* spp.) summer diet composition and ungulate prey selectivity in Ontario, Canada. *Mammal Research* 63:433-441.
- Reed JE, Ballard WB, Gipson PS, Kelly BT, Krausman PR, Wallace MC, Wester DB (2006) Diets of free-ranging Mexican gray wolves in Arizona and New Mexico. *Wildlife Society Bulletin* 34:1127-1133.*
- Rigg R, Gorman M (2004) Spring-autumn diet of wolves (*Canis lupus*) in Slovakia and a review of wolf prey selection. *Oecologia Montana* 13:30-41.
- Sallows TA (2007) Diet preference and parasites of grey wolves in Riding Mountain National Park of Canada. MSc thesis, University of Manitoba Winnipeg.
- Salvador A, Abad PL (1987) Food habits of a wolf population (*Canis lupus*) in Leon province, Spain. *Mammalia* 51:45-52.
- Schaller GB (1977) Mountain monarchs: wild sheep and goats of the Himalaya. University of Chicago Press, Chicago, USA.
- Schaller GB, Hong L, Talipu, Junrang R, Mingjiang Q (1988) The snow leopard in Xinjiang, China. *Oryx* 22:197-204.
- Scott BMV, Shackleton DM (1980) Food habits of two Vancouver Island wolf packs: a preliminary study. *Canadian Journal of Zoology* 58:1203-1207.
- Shabbir S, Anwar M, Hussain I, Nawaz MA (2013) Food habits and diet overlap of two sympatric carnivore species in Chitral, Pakistan. *The Journal of Animal & Plant Sciences* 23:100-107.

- Sidorovich VE, Tikhomirova LL, Jedrzejewska B (2003) Wolf *Canis lupus* numbers, diet and damage to livestock in relation to hunting and ungulate abundance in northeastern Belarus during 1990-2000. *Wildlife Biology* 9:103-111.
- Smith DW, Drummer TD, Murphy KM, Guernsey DS, Evans SB (2004) Winter prey selection and estimation of wolf kill rates in Yellowstone National Park, 1995–2000. *Journal of Wildlife Management* 68:153-166.
- Spaulding RL, Krausman PR, Ballard WB (1998) Summer diet of Gray Wolves, *Canis lupus*, in northwestern Alaska. *The Canadian Field-Naturalist* 112:262-266.
- Ståhlberg S, Bassi E, Viviani V, Apollonio M (2017) Quantifying prey selection of Northern and Southern European wolves (*Canis lupus*). *Mammalian Biology* 83:34-43.
- Steenweg RW (2011) Interactions of wolves, mountain caribou and an increased moose-hunting quota – primary-prey management as an approach to caribou recovery. MSc thesis, University of Northern British Columbia.
- Thompson DQ (1952) Travel, range, and food habits of timber wolves in Wisconsin. *Journal of Mammalogy* 33:429-442.
- Thurber JM, Peterson RO (1993) Effects of population density and pack size on the foraging ecology of gray wolves. *Journal of Mammalogy* 74:879-889.**
- Torres RT, Silva N, Brotas G, Fonseca C (2015) To eat or not to eat? The diet of the endangered Iberian wolf (*Canis lupus signatus*) in a human-dominated landscape in central Portugal. *PLoS ONE* 10(6):1-12.
- Tourani M, Moqanaki EM, Boitani L, Ciucci P (2014) Anthropogenic effects on the feeding habits of wolves in an altered arid landscape of central Iran. *Mammalia* 78:117-121.
- Tremblay JP, Jolicoeur H, Lemieux R (2001) Summer food habits of gray wolves in the boreal forest of the Lac Jacques-Chartier highlands, Québec. *Alces* 37:1-12.
- Valdmann H, Anderson-Lilley Z, Koppa O, Ozolins J, Bagrade G (2005) Winter diets of wolf *Canis lupus* and lynx *Lynx lynx* in Estonia and Latvia. *Acta Theriologica* 50:521-527.
- Van Ballenberghe V, Erickson AW, Byman D (1975) Ecology of the timber wolf in northeastern Minnesota. *Wildlife Monographs* 43:3-43.
- Voigt DR, Kolenosky GB, Pimlott DH (1976) Changes in Summer Foods of Wolves in Central Ontario. *Journal of Wildlife Management* 40:663-668.
- Vos J (2000) Food habits and livestock depredation of two Iberian wolf packs (*Canis lupus signatus*) in the north of Portugal. *Journal of Zoology* 251:457-462.
- Wang J, Laguardia A, Damerell PJ, Riordan P, Shi K (2014) Dietary overlap of snow leopard and other carnivores in the Pamirs of Northwestern China. *Chinese Science Bulletin* 59:3162-3168.
- Weber J-M, Hofer B (2010) Diet of wolves *Canis lupus* recolonizing Switzerland: a preliminary approach. *Revue Suisse De Zoologie* 117: 235-241.
- Wiebe N, Samelius G, Alisauskas RT, Bantle JL, Bergman C, De Carle R, Hendrickson CJ, Lusignan A, Phipps KJ, Pitt J (2009) Foraging behaviours and diets of wolves in the Queen Maud Gulf Bird Sanctuary, Nunavut, Canada. *Arctic* 62:399-404.

Appendix S3. Relationships between indices of diet breadth and prey richness for large terrestrial carnivores: model coefficients and 0.95 confidence intervals of fitted models. L: Levins index; LP: Large Prey index.

Species	Index	Predictor	Model coefficient	SE	CIs
Dhole	L	Intercept	0.651	0.201	±0.438
		Log (prey richness)	-0.214	0.215	±0.468
	LP	Intercept	0.984	0.189	±0.370
		Log (prey richness)	-0.413	0.202	±0.396
Eurasian lynx	L	Intercept	0.037	0.106	±0.227
		Log (prey richness)	0.465	0.167	±0.358
		Sample type (scats)	-0.071	0.062	±0.134
	LP	Intercept	0.173	0.132	±0.258
		Log (prey richness)	0.465	0.208	±0.407
		Sample type (scats)	-0.138	0.078	±0.153
African wild dog	L	Intercept	0.645	0.375	±0.802
		Log (prey richness)	-0.223	0.287	±0.614
	LP	Intercept	0.371	0.226	±0.445
		Log (prey richness)	0.180	0.173	±0.339
Wolf	L	Intercept	-0.011	0.678	±0.114
		Log (prey richness)	0.367	0.063	±0.125
		Sample type (scats)	0.182	0.053	±0.105
	LP	Intercept	0.191	0.053	±0.105
		Log (prey richness)	0.447	0.050	±0.098
		Sample type (scats)	0.077	0.042	±0.082
Snow leopard	L	Intercept	0.365	0.063	±0.132
		Log (prey richness)	0.007	0.107	±0.222
	LP	Intercept	0.585	0.055	±0.107
		Log (prey richness)	-0.194	0.092	±0.180
Cheetah	L	Intercept	-0.229	0.424	±0.908
		Log (prey richness)	0.443	0.321	±0.688
		Sample type (scats)	0.596	0.202	±0.433
	LP	Intercept	0.090	0.327	±0.641
		Log (prey richness)	0.370	0.248	±0.486
		Sample type (scats)	0.287	0.156	±0.305
Leopard	L	Intercept	0.262	0.111	±0.221
		Log (prey richness)	0.149	0.081	±0.162
		Sample type (scats)	0.092	0.054	±0.107
	LP	Intercept	0.456	0.101	±0.198
		Log (prey richness)	0.117	0.074	±0.146
		Sample type (scats)	0.039	0.049	±0.096
Puma	L	Intercept	0.139	0.074	±0.148
		Log (prey richness)	0.279	0.106	±0.213

		Sample type (scats)	0.041	0.038	±0.076
	LP	Intercept	0.306	0.072	±0.142
		Log (prey richness)	0.319	0.104	±0.204
		Sample type (scats)	-0.016	0.037	±0.073
Spotted hyaena	L	Intercept	-0.153	0.144	±0.300
		Log (prey richness)	0.505	0.106	±0.221
		Sample type (scats)	0.123	0.091	±0.190
	LP	Intercept	0.202	0.085	±0.166
		Log (prey richness)	0.381	0.062	±0.122
		Sample type (scats)	-0.005	0.054	±0.105
Jaguar	L	Intercept	0.024	0.098	±0.203
		Log (prey richness)	0.520	0.150	±0.312
	LP	Intercept	0.255	0.088	±0.172
		Log (prey richness)	0.386	0.134	±0.263
Lion	L	Intercept	0.072	0.128	±0.261
		Log (prey richness)	0.467	0.095	±0.195
		Sample type (scats)	0.049	0.071	±0.143
	LP	Intercept	0.474	0.108	±0.212
		Log (prey richness)	0.240	0.081	±0.158
		Sample type (scats)	0.033	0.06	±0.117
Tiger	L	Intercept	0.407	0.142	±0.294
		Log (prey richness)	0.150	0.149	±0.310
	LP	Intercept	0.438	0.090	±0.177
		Log (prey richness)	0.276	0.095	±0.187