**SUPPORTING INFORMATION**

**Journal name:** *Journal of Vertebrate Biology*

**Title:** Variations in the trophic niches of the golden jackal *Canis aureus* across the Eurasian continent associated with biogeographic and anthropogenic factors

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**Fig. S1.** Yearly distributions of (A) the reviewed studies (*n* = 45; solid and open bars represent the studies compiled and not-compiled for meta-analyses, respectively) and (B) the compiled datasets for meta-analyses from the 31 studies.



**Table S1.** List of the studies that were compiled for review and meta-analyses in this study.



**Table S1.** Continue.



Literature list **Table S1.**

Aiyadurai A. & Jhala Y. 2005.:Foraging and habitat use by golden jackals (*Canis aureus*) in the Bhal region, Gujarat, India. *J. Bombay Nat. Hist. Soc.* *103: 5–12.*

Alam M.S., Khan J.A., Njoroge C.H. et al. 2015: Food preferences of the golden jackal *Canis aureus* in the Gir National park and Sanctuary, Gujarat, India. *J. Threat. Taxa* *7: 6927–6933.*

Aleksandra P. & Duško C. 2015: Seasonal variation in diet of the golden jackal (*Canis aureus*) in Serbia. *Mammal Res. 60: 309–317.*

Borkowski J., Zalewski A. & Manor R. 2011: Diet composition of golden jackals in Israel. *Ann. Zool. Fenn. 48: 108–118.*

Bošković I., Florijančić T., Beck A. et al. 2013: Preliminary diet research on golden jackal (*Canis aureus* *aureus*) in eastern Croatia. *Krmiva* *51: 305–311. (in Croatian with English summary)*

Bošković I., Šperanda M., Florijančić T. et al. 2013: Dietary habits of the golden jackal (*Canis aureus* L.) in the eastern Croatia. *Agric. Conspec. Sci. 78: 245–248.*

Chourasia P., Mondal K., Sankar K. & Qureshi Q. 2012: Food habits of golden jackal (*Canis aureus*) and striped hyena (*Hyaena hyaena*) in Sariska Tiger Reserve, Western India. *World J. Zool.* *7: 106–112.*

Ćirović D., Penezić A., Milenković M. & Paunović M. 2014: Winter diet composition of the golden jackal (*Canis aureus* L., 1758) in Serbia. *Mamm. Biol. 79: 132–137.*

Farkas A., Fodor J.T. & Janoska F. 2015: Study of competition between golden jackal (*Canis aureus*) and red fox (*Vulpes vulpes*) in Romania. *Nyugat-magyarországi Egyetem Erdőmérnöki Kar V. Kari Tudományos Konferencia Absztraktkötet 2015: 167–173. (in Hungarian)*

Geptner V.G. & Naumov N.P. 1967: Mammals of the Soviet Union. *Vysshaya Shkola Publishers, Moscow, Russia. (in Russian)*

Giannatos G., Karypidou A., Legakis A. & Polymeni R. 2010: Golden jackal (*Canis aureus* L.) diet in southern Greece. *Mamm. Biol. 75: 227–232.*

Jaeger M.M., Haque E., Sultana P. & Bruggers R.L. 2007: Daytime cover, diet and space-use of golden jackals (*Canis aureus*) in agro-ecosystems of Bangladesh. *Mammalia* *71: 1–10.*

Khan A.A. & Beg M.A. 1986: Food of some mammalian predators in the cultivated areas of Punjab. *Pakistan J. Zool.* *18: 71–79.*

Lanszki J., Giannatos G., Dolev A. et al. 2010: Late autumn trophic flexibility of the golden jackal *Canis aureus*. *Acta Theriol. 55: 361‒370.*

Lanszki J., Giannatos G., Heltai M. & Legakis A. 2009: Diet composition of golden jackals during cub-rearing season in Mediterranean marshland in Greece. *Mamm. Biol. 74: 72‒75.*

Lanszki J. & Heltai M. 2002: Feeding habits of golden jackal and red fox in south-western Hungary during winter and spring. *Mamm. Biol.* *67: 129‒136.*

Lanszki J., Heltai M. & Szabó L. 2006: Feeding habits and trophic niche overlap between sympatric golden jackal (*Canis aureus*) and red fox (*Vulpes vulpes*) in the Pannoninan ecoregion (Hungary). *Can. J. Zool. 84: 1647–1656.*

Lanszki J., Kurys A., Heltai M. et al. 2015: Diet composition of the golden jackal in an area of intensive big game management. *Ann. Zool. Fenn. 52: 243‒255.*

Lanszki J., Kurys A., Szabó L. et al. 2016: Diet composition of the golden jackal and the sympatric red fox in an agricultural area (Hungary). *Folia Zool. 65: 310‒322.*

Mahmood T., Niazi F. & Nadeem M.S. 2013: Diet composition of Asiatic jackal (*Canis aureus*) in Margallah Hills National Park, Islamabad, Pakistan. *J. Anim. Plant Sci.* *23: 444–456.*

Majumder A., Sankar K., Qureshi Q. & Basu S. 2011: Food habits and temporal activity patterns of the golden jackal (*Canis aureus*) and the jungle cat in Pench Tider Reserve, Madhya Pradesh, India. *J. Threat. Taxa* *3: 2221–2225.*

Markov G. & Lanszki J. 2012: Diet composition of the golde jackal, *Canis aureus* in an agricultural environment. *Folia Zool. 61: 44–48.*

Mukherjee S., Goyal S.P., Johnsingh A.J.T. & Letie Pitman M.R.P. 2004: The importance of rodents in the diet of jungle cat (*Felis chaus*), caracal (*Caracal caracal*) and golden jackal (*Canis aureus*) in Sariska Tiger Reserve, Rajasthan, India. *J.* *Zool. Lond.* *262: 405–411.*

Nadeem M.S., Naz R., Shah S.I. et al. 2012: Season- and locality-related changes in the diet of Asiatic jackal (*Canis aureus*) in Potohar, Pakistan. *Turk. J. Zool. 36: 798–805.*

Prerna S., Edgaonkar A. & Dubey Y. 2015: Diet composition of golden jackal *Canis aureus* (Mammalia: Carnivora: Canidae) in Van Vihar National Park, India. *J. Threat. Taxa* *7: 7422–7427.*

Radović A. & Kovačić D. 2010: Diet composition of the golden jackal (*Canis aureus* L.) on the Peljesac Peninsula, Dalmatia, Croatia. *Period. Biol.* *112: 219–224.*

Raichev E.G., Tsunoda H., Newman C. et al. 2013: The reliance of the golden jackal (*Canis aureus*) on anthropogenic foods in winter in central Bulgaria. *Mamm. Study 38: 9–27.*

Rozhenko N. 2006: Foods of some carnivores in anthropogenic landscapes of the Black Sea. *Proceedings of Theriological School* *8: 191–200. (in Ukrainian)*

Sankar K. 1988: Some observations on food habits of jackal (*Canis aureus*) in Keoladeo National Park, Bharatpur, as shown by scat analysis. *J. Bombay Nat. Hist. Soc.* *85: 185–186.*

Shabbir S., Anwar M., Hussain I. & Nawaz M.A. 2013: Food habits and diet overlap of two sympatric carnivore species in Chitral, Pakistan. *J. Anim. Plant Sci. 23: 100‒107.*

Singh A., Mukherjee A., Dookia S. & Kumara H.N. 2016: High resource availability and lack of competition have increased population of a meso-carnivore – a case study of golden jackal in Keoladeo National Park, India. *Mammal Res. 61: 209–219.*

**Table S2.** Pearson’s correlation coefficients (lower left corner) and variance inflation factors (VIFs; upper right corner) among the explanatory variables used in the generalised linear mixed model (GLMM) analyses.



**Table S3.** Results of the principal component analysis (PCA) of the latitudes and longitudes of the study areas used in the articles reviewed in this study.

