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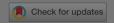
Article

Spatial and temporal separation between the golden jackal and three sympatric carnivores in a human-modified landscape in central Bulgaria

Hiroshi Tsunoda ✓, Kairi Ito, Stanislava Peeva, Evgeniy Raichev & Yayoi Kaneko Pages 172-179 | Received 27 Mar 2018, Accepted 23 Jul 2018, Published online: 05 Sep 2018

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southern interactions ere it courrence and e red fox Martes indscape of spatially, suggest ller

carnivore species were associated with a variation in resource use patterns (e.g., food or microhabitats). Our findings indicate that spatial/temporal separation allows smaller species to avoid direct confrontations and agonistic competitions with jackals, resulting in successful co-occurrence.

KEYWORDS:

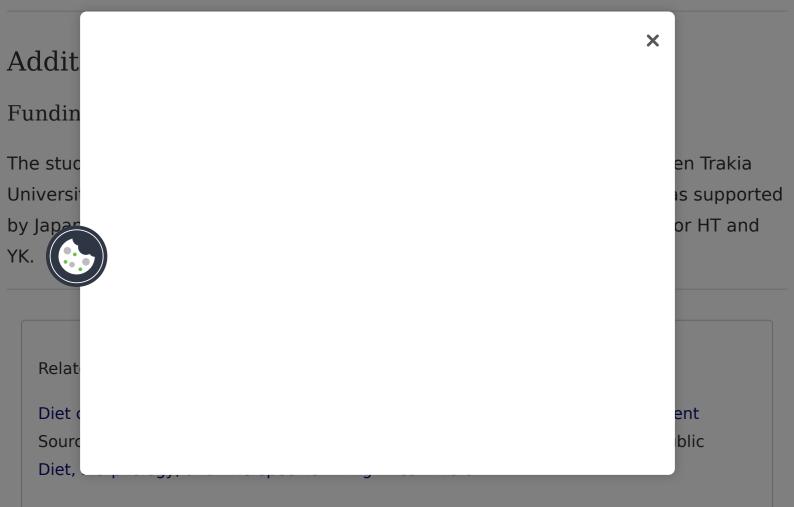
Canis aureus	competition	ecological niche	intra-guild interaction	spatial niche	temporal niche

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Disclosure statement

No potential conflict of interest was reported by the authors.



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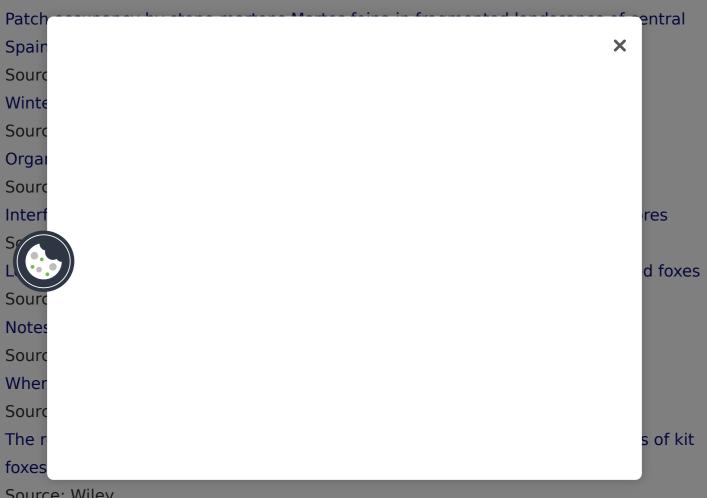
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