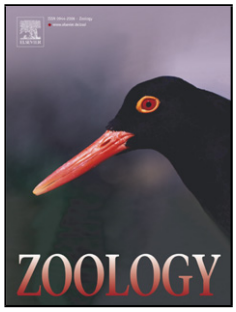

Title: Fitness effects of interspecific competition between two species of desert rodents

Authors: Noa Katz, Tamar Dayan, Noga Kronfeld-Schor

PII: S0944-2006(17)30156-3
DOI: https://doi.org/10.1016/j.zool.2018.03.002
Reference: ZOOL 25636

To appear in:

Received date: 24-6-2017
Revised date: 26-1-2018
Accepted date: 6-3-2018

Please cite this article as: { https://doi.org/

Fitness effects of interspecific competition between two species of desert rodents

Noa Katz[1]* Tamar Dayan[1,2] and Noga Kronfeld-Schor[1]

1 School of Zoology, Tel Aviv University, Tel Aviv 69978, Israel

2 The Steinhardt Museum of Natural History, Israel National Center for Biodiversity Studies, Tel Aviv University, Tel Aviv 69978, Israel

Corresponding author

Email: noakatz1@mail.tau.ac.il

Highlights

- We examined the interspecific competition between two desert rodents.
- Competition impaired the subordinate species' fitness through reproductive suppression.
- Signs of reduced fitness appeared more clearly in males and young relative to females of the subordinate species.
- Reproductive suppression occurred as a result of direct and/or indirect pathways.
- One plausible indirect pathway is increased use of torpor, induced by the presence of the competing species.