# Title: Energetic compensation breaks down over time in a desert rodent community

# Authors: Renata M. Diaz1 and S. K. Morgan Ernest2

1. School of Natural Resources and Environment, University of Florida, Gainesville, FL. Corresponding author.

2. Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL

**Original submission:** This submission analyzes long-term data on rodent community abundance and energy use from the Portal Project. Sections of this timeseries have been analyzed in numerous other publications, but this is the first to analyze data from 2007-2020 on energetic compensation on experimental and control plots.

**No prior publication:** While sections of the Portal Project data have been analyzed in numerous other publications, the key data for this submission have not been published elsewhere. This submission is posted as a preprint on bioRxiv at [bioRxiv].

**Animal welfare:** Rodent censuses were conducted with IACUC approval.

**Open research:** All data and code to reproduce these analyses are archived on Zenodo at [Zenodo].

**Analytic methods:** All analyses were conducted in R version [R version].

# Abstract

# Key words: energetic compensation, zero-sum dynamic, environmental fluctuations, dispersal limitation, habitat tracking

# Introduction

# Methods

# Results

# Discussion

# Acknowledgements

RMD was supported in part by NSF grants No. [GRF grants]. SKME […]. The Portal Project has been supported by numerous NSF grants, most recently [LTREB].

# Literature cited

# Tables

# Figure legends

# Figures