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Independence among physiological traits suggests flexibility in the face of ecological demands on phenotypes

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Physiological data

Data on physiological traits taken from individual birds (Red Knots, Calidris canutus) over an annual cycle. Birds were part of a year long experiment. This file contains experimental and temporal categories as well as physiological measures.

Dataset Key – Buehler et al 2012 J Evol Biol

Bird: Unique identifier for indivudal birds
Treatment: Experimental treatment group
Cage: Identifier for housing room/cage
DNAsex: Sex obtained via DNA analysis (1 = male, 2 = female)
ExpMonth: Categorical value for month during the experiment
BMRWATT: Basal metabolic rate (in watts)
MCEc: Microbicidal activity against E.coli (as proportion of colonies killed after a 10 min incubation)
MCCa: Microbicidal activity against (C. albicans (as proportion of colonies killed after a 60 min incubation)
MCSa: Microbicidal activity against S.aureus (as proportion of colonies killed after a 120 min incubation)
Het: Heterophils per ul blood
Lym: Lymphocytes per ul blood
Mon: Monocytes per ul blood
Agg: log2 agglutination titer
Lys: log2 lysis titer
MASSBMR: Body mass during BMR measurement
Cort: Corticosterone in ng/ml
Hct: Hematocrit (proportion of RBCs in total volume)