



Cover: Responding to bacterial infections entails a variety of costs, which vary with intensity of infection. Butler et al. (jeb243116) investigated how tree swallows (*Tachycineta bicolor*) respond physiologically to simulated bacterial infections spanning two orders of magnitude. While only the highest level of simulated infection caused nestlings to lose body mass, nestlings exhibited a dose-dependent increase in oxidative damage across all levels of simulated bacterial infection. Thus, even more 'mild' immune challenges entail quantifiable physiological costs. Photo credit: Mike Butler.

INSIDE JEB

Female red postman butterflies see UV shades that males can't
Knight, K.
jeb243381

Damaged honey bee guts recover impressively after heat waves
Knight, K.
jeb243429

Shock absorbers hold the key to a smooth stroll
Knight, K.
jeb243366

CONVERSATION

In the field: an interview with Glenn Tattersall
jeb243415

COMMENTARY

Guidelines for reporting methods to estimate metabolic rates by aquatic intermittent-flow respirometry
Killen, S. S., Christensen, E. A. F., Cortese, D., Závorka, L., Norin, T., Cotgrove, L., Crespel, A., Munson, A., Nati, J. J. H., Papatheodoulou, M. and McKenzie, D. J.
jeb242522

REVIEW

The evolutionary and physiological significance of the Hif pathway in teleost fishes
Mandic, M., Joyce, W. and Perry, S. F.
jeb231936

RESEARCH ARTICLES

Loss of Stearoyl-CoA desaturase 1 leads to cardiac dysfunction and lipotoxicity
Tuthill II, B. F., Quaglia, C. J., O'Hara, E. and Musselman, L. P.
jeb240432

Allometry in desert ant locomotion (*Cataglyphis albicans* and *Cataglyphis bicolor*) – does body size matter?
Tross, J., Wolf, H. and Pfeffer, S. E.
jeb242842

Repeated stimulation of the HPA axis alters white blood cell count without increasing oxidative stress or inflammatory cytokines in fasting elephant seal pups
Ensminger, D. C., Crocker, D. E., Lam, E. K., Allen, K. N. and Vázquez-Medina, J. P.
jeb243198

True UV color vision in a female butterfly with two UV opsins
Finkbeiner, S. D. and Briscoe, A. D.
jeb242802

Disentangling environmental drivers of circadian metabolism in desert-adapted mice
Colella, J. P., Blumstein, D. M. and MacManes, M. D.
jeb242529

Under pressure: the relationship between cranial shape and burrowing force in caecilians (Gymnophiona)
Lowie, A., De Keghel, B., Wilkinson, M., Measey, J., O'Reilly, J. C., Kley, N. J., Gaucher, P., Brecko, J., Kleinteich, T., Van Hoorebeke, L., Herrel, A. and Adriaens, D.
jeb242964

Thermal stress induces tissue damage and a broad shift in regenerative signaling pathways in the honey bee digestive tract
Bach, D. M., Holzman, M. A., Wague, F., Miranda, JJ L., Lopatkin, A. J., Mansfield, J. H. and Snow, J. W.
jeb242262

A simple computational method to estimate stance velocity in running
Burns, G. T. and Zernicke, R. F.
jeb242787

Mitochondrial K_{ATP} channels stabilize intracellular Ca^{2+} during hypoxia in retinal horizontal cells of goldfish (*Carassius auratus*)
Country, M. W. and Jonz, M. G.
jeb242634

Soft tissue deformations explain most of the mechanical work variations of human walking
van der Zee, T. J. and Kuo, A. D.
jeb239889

Activation of cardiac $Nmnat/NAD^+/SIR2$ pathways mediates endurance exercise resistance to lipotoxic cardiomyopathy in aging *Drosophila*
Wen, D., Zheng, L., Lu, K. and Hou, W.
jeb242425

Oxidative damage increases with degree of simulated bacterial infection, but not ectoparasitism, in tree swallow nestlings
Butler, M. W., Stierhoff, E. N., Carpenetti, J. M., Bertone, M. A., Adesso, A. M. and Knutie, S. A.
jeb243116

Interspecific variation in bristle number on forewings of tiny insects does not influence clap-and-fling aerodynamics
Kasoju, V. T., Moen, D. S., Ford, M. P., Ngo, T. T. and Santhanakrishnan, A.
jeb239798

CORRECTION

Correction: Neural and behavioural responses of the pollen-specialist bee *Andrena vaga* to *Salix* odours
Burger, H., Marquardt, M., Babucke, K., Heuel, K. C., Ayasse, M., Dötter, S. and Galizia, C. G.
jeb243476