



Cover: The raccoon's adaptability and heightened success in cities is often attributed to their cleverness. Yet, little is known about the cognition of raccoons, especially in wild populations. Stanton et al. (jeb243726) employed advanced techniques to study the behavior and cognitive abilities of raccoons in the field using automated operant-conditioning devices. They found that although most raccoons excelled at tests of learning, they varied in their behavior and performance, probably as a result of multiple factors including age and personality. Photo credit: Melissa Groo.

INSIDE JEB

Wings make queens of Indian jumping ants

Knight, K.

jeb245039

Some mice are better than others at recycling warmth to conserve energy

Knight, K.

jeb244975

Fast-fire moths are better jammers, but bats can outsmart them

Knight, K.

jeb244954

Sun guides Atlantic herring youngsters on maiden voyage

Knight, K.

jeb244920

Docile raccoons are likely trash can criminal masterminds

Knight, K.

jeb244806

SHORT COMMUNICATIONS

Behavioural temperature regulation is a low priority in a coral reef fish (*Plectropomus leopardus*): insights from a novel behavioural thermoregulation system

Clark, T. D., Scheuffele, H., Pratchett, M. S. and Skeeles, M. R.

jeb244212

Juvenile Atlantic herring (*Clupea harengus*) use a time-compensated sun compass for orientation

Spiecker, L., Laurien, M., Dammann, W., Franke, A., Clemmesen, C. and Gerlach, G.

jeb244607

RESEARCH ARTICLES

Evaluating the 'cost of generating force' hypothesis across frequency in human running and hopping

Allen, S. P., Beck, O. N. and Grabowski, A. M.

jeb244755

Behavior and neural activation patterns of non-redundant visual and acoustic signaling during courtship in an African cichlid fish

King, T., Ray, E. J., Tramontana, B. and Maruska, K.

jeb244548

Locomotor resilience through load-dependent modulation of muscle co-contraction

Günzel, Y., Schmitz, J. and Dürr, V.

jeb244361

Worker-like behavioral and physiological phenotype in queens with removed wings in a ponerine ant

Pyenson, B., Albin-Brooks, C., Burhyte, C. and Liebig, J.

jeb243684

Freshwater adaptation in prickly sculpin (Pisces: Cottidae): intraspecific comparisons reveal evidence for water pH and Na⁺ concentration driving diversity in gill H⁺-ATPase and ion regulation

Liu, S., Wilson, J. M., Taylor, E. B. and Richards, J. G.

jeb243500

High duty cycle moth sounds jam bat echolocation: bats counter with compensatory changes in buzz duration

Fernández, Y., Dowdy, N. J. and Conner, W. E.

jeb244187

Individual variation in heat substitution: is activity in the cold energetically cheaper for some individuals than others?

Maloney, C. and Careau, V.

jeb244186

Plasticity of salmonfly (*Pteronarcys californica*) respiratory phenotypes in response to changes in temperature and oxygen

Malison, R. L., Frakes, J. I., Andreas, A. L., Keller, P. R.,

Hamant, E., Shah, A. A. and Woods, H. A.

jeb244253

Biomechanical energetics of terrestrial locomotion in California sea lions (*Zalophus californianus*)

Kerr, S. J., Fish, F. E., Nicastro, A. J., Zeligs, J. A., Skrovan, S. and Leftwich, M. C.

jeb244163

Environmental, individual and social traits of free-ranging raccoons influence performance in cognitive testing

Stanton, L. A., Bridge, E. S., Huizinga, J. and

Benson-Amram, S.

jeb243726