Bull ants fine-tune ocelli to their lifestyle; Fruit fly mum’s gift protects larvae through development; Locust oxygen delivery matched to souped-up muscle; Divided swim bladder maintains brooding cichlid mum’s balance

Magnetic declination stops migratory birds getting lost at sea; Modernity has stripped us of our dynamic bacteria; Swindling cuckoos: hawk-like call tricks hosts; White-nose syndrome dehydrates bats

Early-career researchers: an interview with Paloma Gonzalez Bellido

The evolution of honey bee dance communication: a mechanistic perspective

Considerations on the role of olfactory input in avian navigation

Seasonal changes in background levels of deuterium and oxygen-18 prove water drinking by harp seals, which affects the use of the doubly labelled water method

Effects of nutritional deprivation on development and behavior in the subsocial bee Ceratina calcarata (Hymenoptera: Xylocopinae)

Swim bladder morphology changes with female reproductive state in the mouth-brooding African cichlid Astatotilapia burtoni

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Critical thermal limits affected differently by developmental and adult thermal fluctuations

Changes in the levels and phosphorylation status of Akt, AMPK, CREB and FoxO1 in hypothalamus of rainbow trout under conditions of enhanced glucosensing activity

Differences in titin segmental elongation between passive and active stretch in skeletal muscle

Strong association between corticosterone levels and temperature-dependent metabolic rate in individual zebra finches

The metabolic costs of sexual signalling in the chirping katydid Plangia graminea (Serville) (Orthoptera: Tettigoniidae) are context dependent: cumulative costs add up fast

Seasonal changes in background levels of deuterium and oxygen-18 prove water drinking by harp seals, which affects the use of the doubly labelled water method

Kinematics of chisel-tooth digging by African mole-rats

The effect of food properties on grasping and manipulation in the aquatic frog Xenopus laevis

Maternal loading of a small heat shock protein increases embryo thermal tolerance in Drosophila melanogaster

cAMP signaling mediates behavioral flexibility and consolidation of social status in Drosophila aggression

Sirtuins regulate proteomic responses near thermal tolerance limits in the blue mussels Mytilus galloprovincialis and Mytilus trossulus

Integration of swimming kinematics and ram suspension feeding in a model American paddlefish, Polyodon spathula