



Cover: Force production differs in fluid and solid environments, so demands placed on animals' bodies vary with the medium. Unlike many other swimming birds, mallard ducks can take off nearly vertically from both water and land. Taylor-Burt and Biewener (jeb223743) report that mallards change their hindlimb kinematics and muscle function between environments, with environment-specific changes in the direction of knee motion, lateral gastrocnemius muscle strain and shortening velocity, and wing and tail contributions. The variable kinematics and muscle function in mallards demonstrate the challenge of moving in different environments. Photo credit: Roy and Marie Battell.

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jeb233130

Hefty shells help hermit crabs cling on in surf
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jeb225680

SHORT COMMUNICATION

Nest predation and adult mortality relationships with post-natal metabolic rates and growth among songbird species
Ton, R. and Martin, T. E.
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How zebrafish turn: analysis of pressure force dynamics and mechanical work
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Thermal acclimation offsets the negative effects of nitrate on aerobic scope and performance
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Photoperiodic induction without light-mediated circadian entrainment in a High Arctic resident bird
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Parasite infection directly impacts escape response and stress levels in fish
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Electrocommunication in pulse Gymnotiformes: the role of electric organ discharge (EOD) time course in species identification
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Parental transgenerational epigenetic inheritance related to dietary crude oil exposure in *Danio rerio*
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The control of nocifensive movements in the caterpillar *Manduca sexta*
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Aquatic and terrestrial takeoffs require different hindlimb kinematics and muscle function in mallard ducks
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Extra-gastric expression of the proton pump H^+/K^+ -ATPase in the gills and kidney of the teleost *Oreochromis niloticus*
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