

Selected Publications

- Jackson, D.C. (2011). Academic genealogy and direct calorimetry: a personal account. *Adv. Physiol, Educ.* 35: (In Press).
- Jackson, D.C. (2011). *Life in a Shell: A Physiologist's View of a Turtle*. Harvard Univ. Press, Cambridge, MA. 192 pp.
- Milsom, W.K. and D.C. Jackson (2011). Gas exchange during hibernation. *Compr. Physiol* 1: 397-420. doi: 10.1002/cphy.c090018
- Jackson, D.C. and G.R. Ultsch (2010). Physiology of hibernation under the ice by turtles and frogs. *J. Exp. Zool.* 313A: 311-327.
- Warren, D.E. and D.C. Jackson (2008). Lactate metabolism in anoxic turtles: an integrative review. *J. Comp. Physiol. B* 178: 133-148.
- Warren, D.E. and Jackson, D.C. (2007). Effects of temperature on anoxic submergence: skeletal buffering, lactate distribution and glycogen depletion in the turtle, *Trachemys scripta*. *Am. J. Physiol.* 293: R458-R467.
- Davis, E.C. and D.C. Jackson (2007). Lactate uptake by skeletal bone in anoxic turtles, *Trachemys scripta*. *Comp. Biochem. Physiol. A* 146: 299-304.
- Jackson, D.C. (2007). Temperature and hypoxia in ectothermic tetrapods. *J. Therm. Biol.* 32: 125-133.
- Jackson, D.C., S.E. Taylor, V.S. Asare, D. Villarnovo, J.M. Gall, and S.A. Reese (2007). Comparative shell buffering properties correlate with anoxia tolerance in freshwater turtles. *Am. J. Physiol.* 292: R1008-R1015.
- Warren, D.E., S.A. Reese, and D.C. Jackson (2006). The factors that limit survival of red-eared slider turtles, *Trachemys scripta*, during long-term anoxic submergence at 3°C. *Physiol. Biochem. Zool.* 79: 736-744.
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- Bobb, V.T. and D.C. Jackson (2005). Effect of graded hypoxic and acidotic stress on contractile force of heart muscle from hypoxia-tolerant and hypoxia-intolerant turtles. *J. Exp. Zool.* 303A: 345-353.
- Warren, D.E. and D.C. Jackson (2005). The role of mineralized tissue in the buffering of lactic acid during anoxia and exercise in the leopard frog, *Rana pipiens*. *J. Exp. Biol.* 208: 1117-1124.

- Jackson, D.C., Rauer, E.M., Feldman, R.A., and Reese, S.A. (2004). Avenues of extrapulmonary oxygen uptake in western painted turtles (*Chrysemys picta bellii*) at 10°C. *Comp. Biochem. Physiol. A* 139: 221-227.
- Reese, S.A., E.R. Stewart, C.E. Crocker, D.C. Jackson, and G.R. Ultsch (2004). Geographic variation of the physiological response to overwintering in the painted turtle (*Chrysemys picta*). *Physiol. Biochem. Zool.* 77: 619-630.
- Ultsch, G.R., E.L. Brainerd, and D.C. Jackson (2004). Lung collapse among aquatic reptiles and amphibians during long-term diving. *Comp. Biochem. Physiol. A* 139: 111-115.
- Reese, S.A., G.R. Ultsch, and D.C. Jackson (2004). Lactate accumulation, glycogen depletion, and shell composition in hatchling turtles during simulated hibernation. *J. Exp. Biol.* 207: 2889-2895.
- Warren, D.E. and D.C. Jackson (2004). Swimming effects on metabolic recovery from anoxia in the painted turtle. *J. Exp. Biol.* 207: 2705-2713.
- Jackson, D.C. (2004). Overwintering in submerged turtles. In: *Life in the Cold: Evolution, Mechanisms, Adaptation, and Application. Twelfth International Hibernation Symposium*. Barnes, B.M. and Carey, H.V., eds., Biological Papers of the University of Alaska, number 27, Fairbanks, AK, pp. 317-327.
- Jackson, D.C. (2004). Surviving extreme lactic acidosis: the role of calcium lactate formation in the anoxic turtle. *Respir. Physiol. Neurobiol.* 144: 173-178.
- Jackson, D.C. (2004). Hypoxic hypometabolism and acid-base balance. *Respir. Physiol. Neurobiol.* 141: 273-283.
- Jackson, D.C., D.V. Andrade, and A.S. Abe. (2003). Lactate Sequestration by Osteoderms of the Broad-Nose Caiman, *Caiman latirostris*, following capture and forced submergence. *J. Exp. Biol.* 206: 3601-3606.
- Jackson, D.C. and S.F. Denniston (2003). Effect of experimental anemia on blood ion and acid-base status of turtles during submergence in aerated water at 3°C. *Comp. Biochem. Physiol. A* 135: 597-603.
- Reese, S.A., D.C. Jackson, and G.R. Ultsch (2003). Hibernation in freshwater turtles: softshell turtles (*Apalone spinifera*) are the most intolerant of anoxia among northern North American species. *J Comp Physiol B* 173: 263-268
- Jackson, D.C. (2002). Hibernating without oxygen: physiological adaptations of the painted turtle. *J. Physiol.* (London) 543.3: 731-737.
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- Jackson, D.C. (2000). Living without oxygen: lessons from the freshwater turtle. *Comp. Biochem. Physiol. A*. 125: 299-315.
- Jackson, D.C., A.L. Ramsey, J.M. Paulson, C.E. Crocker, and G.R. Ultsch (2000). Lactic acid buffering by bone and shell in anoxic softshell and painted turtles. *Physiol. Biochem. Zool.* 73:290-297.
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