



Gregory A. Lewbart



Professor of Aquatic Animal
Medicine

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Title: Zoological Medicine

Research emphasis:

My research is focused on addressing and solving clinical challenges of aquatic animals and terrestrial invertebrates and reptiles. Clinical case, retrospective, and prospective studies in the areas of pharmacokinetics, analgesia, anesthesia, surgery, anatomy, and physiology are employed to address a wide array of medical problems related to these taxa. I have a special interest in turtles and am engaged in many projects with terrestrial, freshwater, and marine species.

Application :

- Wildlife health assessment
- Exotic animal pharmacology
- Aquatic animal anesthesia and surgery

Collaboration potential:

- Laboratory animal medicine
- Wildlife medicine and health

Selected publications: (limit 4)

Lewbart GA, Hirschfeld M, Muñoz J, Denkinger J, Vinueza L, Brothers JR, García J, Lohmann. KJ. 2015. Blood gasses, biochemistry, and hematology of marine iguanas (*Amblyrhynchus cristatus*). *Conservation Physiology* 3(1): cov034; doi: 10.1093/conphys/cov034

Lewbart GA, Hirschfeld M, Denkinger J, Vasco K, Guevara N, García J, Muñoz J, Lohmann.KJ. 2014. Blood gasses, biochemistry, and hematology of Galápagos green turtles (*Chelonia mydas*). *PLoS ONE*. 9(5): e96487. doi:10.1371/journal.pone.0096487

Braverman H, Leibovitz L, Lewbart GA. Green algal infection of American horseshoe crab (*Limulus polyphemus*) exoskeletal structures. *Journal of Invertebrate Pathology* 2012; 111:90-93.

Lewbart GA, Christian LS, Harms CA, Van Wettere AJ. 2010 A comparison of heavy metal concentrations and health assessment in the Asian clam (*Corbicula fluminea*) from Florida and North Carolina. *Journal of Aquatic Animal Health* 22(2):73-77.