

Publications Prior to 2005

- Duckworth, R. A.**, Mendonça , M. T., and Hill, G. E. 2004 Condition dependent sexual traits and social dominance in the house finch 15:779-784
- Mendonça, M.T., D. Daniels*, C. Faro*, and D. Crews 2003. Differential effects of courtship and mating on receptivity and brain metabolism in female red-sided garter snakes Behavioral Neuroscience 117
- Duckworth, R.A. **, M.T. Mendonça, and G.E. Hill 2002. Condition dependence of testosterone production may explain its opposite effects on disease in captive and free-living house finches. Proc. Royal. Soc. Lond. 268: 2467-2475
- Mendonça, M.T. and D. Crews. 2001 Control of attractivity and receptivity in female red-sided garter snakes.*Horm.. Behavior* 40:43-50
- Shelby, J.A.** and M.T. Mendonça. 2001. Comparison of reproductive parameters in male yellow-blotched map turtles from a historically polluted and reference site. Comparative Biochemistry and Physiology C. 129:233-242
- Shelby, J.A. **, M.T. Mendonça, B. Horne, and R.A. Seigel. 2000 Seasonal fluctuations in sex steroid hormones in the yellow-blotched map turtle (*Graptemys flavimaculata*). 2000 *Gen. Comp. Endocrinol.* 119: 43-51
- Ott, J.A. **, M.T. Mendonça, C. Guyer and W. Michner. 2000. Seasonal changes in sex and adrenal steroid hormones of gopher tortoises (*Gopherus polyphemus*).*Gen. Comp. Endocrinol.* 117:299-312
- Kannan, K., M. Ueda, J.A. Shelby**, M.T. Mendonça, M. Kawano, M. Matsuda, T. Wakimoto, and J. P. Giesy. 2000. Polychlorinated dibenzo-*p*-dioxins (PCDDs), dibenzofurans (PCDFs), biphenyls (PCBs) and organochlorine pesticides in yellow-blotched map turtles from the Pascagoula River basin in Mississippi, USA. *Arch. Environ. Contam. Toxicol.* 38:362-370.
- Hopkins, W.A. **, M.T. Mendonça, and J.D. Congdon. 1999. Responsiveness of the hypothalamus, pituitary, adrenal axis in an amphibian (*Bufo terrestris*) exposed to coal combustions wastes. *Comp. Biochem. Physiol.* 122:191-196
- Rose, K., L. Brewer, L. Barnhouse, G. Fox, , N. Gard, M.Mendonca, K.R. Munkittrick and L.J. Vitt. 1999. Ch 4 pp.225-281. Reproductive and developmental effects of contaminants in oviparous vertebrates DiGuilio and Tillitt (eds). SETAC Press
- Hopkins, W.A. **, M.T. Mendonça, C. Rowe, and J.D. Congdon. 1998. Bioaccumulation of heavy metals in southern toads. *Arch. Environ. Contam. Toxicology* 35:325-329
- Mendonça, M.T. and W. A. Hopkins**. 1997. Relationship of androgen and arousal to mating in the big brown bat, *Eptesicus fuscus*. *Physiol. Zool.* 70:356-362
- Hopkins, W.A**, M.T. Mendonça, and J.D. Congdon. 1997. Increased circulating

- levels of testosterone and corticosterone in southern toads, *Bufo terrestris*, exposed to coal ash waste. *Gen. Comp. Endocrinology* 108:237-246.)
- Mendonça, M.T., A. J. Tousignant and D. Crews. 1996. Pinealectomy, melatonin and courtship behavior in male red-sided garter snakes. *J. Exp. Zool.* 274:63-74.
- Mendonça, M.T. and D. Crews. 1996. Effects of ovariectomy and estrogen replacement on attractivity and receptivity in the red-sided garter snake (*Thamnophis sirtalis parietalis*). *J. Comp Physiol A.* 178: 373-381.
- Mendonça, M.T., S.D. Chernetsky*, K.E. Nester** and G.L. Gardner**. 1996. Effects of sex steroids on sexual behavior in the big brown bat, *Eptesicus fuscus*. *Horm Behav* 30:153-161.
- Mendonça, M.T., A.J. Tousignant and D. Crews. 1996. Courting and non-courtship male garter snakes (*Thamnophis sirtalis parietalis*): plasma melatonin levels and the effects of pinealectomy. *Horm. Behav.* 30:176-185.
- Houck, L., M.T. Mendonça, T. Lynch, and D. Scott. 1996. Plasma androgens and corticosterone in relation to courting behavior in the male marbled salamander, *Ambystoma opacum*. *Gen. Comp. Endocrinol.* 104:253-262
- Mendonça, M.T. 1995. Book review of *Raising and Breeding Amphibians*. *Copeia*. 1995:748-749.
- Mendonça, M.T., A. J. Tousignant and D. Crews. 1995. Seasonal changes and annual variability in daily plasma melatonin in the red-sided garter snake (*Thamnophis sirtalis parietalis*). *Gen. Comp. Endocrinol.* 100:226-237.
- Crews, D., R. Robker and M. T. Mendonça. 1993. Seasonal changes in sexually dimorphic brain nuclei in the red-sided garter snake. *J. Neuroscience*. 13: 5356-5364.
- Mendonça, M.T. and D. Crews. 1990. Mating-induced ovarian recrudescence in the red-sided garter snake. *J. Comp. Physiol. A* 166:629-632.
- Mendonça, M.T. and D. Crews. 1989. Effect of fall mating on ovarian development in the red-sided garter snake. *Am. J. Physiol.* 257:R1548-R1550.
- Mendonça, M.T. 1987. Photo thermal effects on the ovarian cycle of the musk turtle, *Sternotherus odoratus*. *Herpetologica* 43:82-90.
- Mendonça, M.T. 1987. Timing of reproductive behaviour in male musk turtles, *Sternotherus odoratus*: effects of photoperiod, temperature and testosterone. *Anim. Behav.* 35:1002-1014
- Cooper, W.E., M.T. Mendonça and L.J. Vitt. 1987. Induction of orange head coloration and activation of courtship and aggression by testosterone in the male broad-headed skink (*Eumeces laticeps*). *J. Herpetol.* 21:96-101.
- Mendonça, M.T. and P. Licht. 1986. Photothermal effects on the testicular cycle in the musk turtle, *Sternotherus odoratus*. *J. Expt. Zool.* 239:117-130
- Mendonça, M.T. and P. Licht. 1986. Seasonal cycles in gonadal activity and plasma gonadotropin in the musk turtle, *Sternotherus odoratus*. *Gen. Comp. Endocrinol.* 62: 459-469.
- Cooper, W.E., M.T. Mendonça and L.J. Vitt. 1986. Induction of sexual receptivity

- in the female broad-headed skink, *Eumeces laticeps* by estradiol-17B. *Horm. Behav.* 20: 235-242.
- Mendonça, M.T. and P.C.H. Pritchard. 1986. Movements of post-nesting Kemp's ridley sea turtles, *Lepidochelys kempi*. *Herpetologica* 42:373-381.
- Mendonça, M.T., P. Licht, M.J. Ryan and R. Barnes. 1985. Seasonal and individual changes in hormone levels and behavior in male bullfrogs, *Rana catesbeiana*, in the field. *Gen. Comp. Endocrinol.* 58:270-279.
- Licht, P. R. Millar, J.A. King, B. R. McCreery, M.T. Mendonça, A. Bona Gallo, B. Lofts. 1984. Effects of chicken and mammalian gonadotropin releasing hormone (GnRH) on *in vivo* pituitary gonadotropin release in amphibians and reptiles. *Gen. Comp. Endocrinol.* 54:89-96.
- Mendonça, M.T. 1983. Movements and feeding ecology of immature green turtles *Chelonia mydas* in a Florida lagoon. *Copeia* 1983: 1013-1023.
- Mendonça, M.T. and L.M. Ehrhart. 1982. Activity, population size and structure of immature *Chelonia mydas* and *Caretta caretta* in a Florida lagoon. *Copeia* 1982:161-167.
- Mendonça, M.T. 1981. Comparative growth rates of wild immature *Chelonia mydas* and *Caretta caretta* in a Florida lagoon. *J. Herpetology* 15: 447-51.
- Koffler, B., R.A. Seigel, M.T. Mendonça. 1978. The seasonal occurrence of leeches on the wood turtle, *Clemmys insculpta* (Reptilia, Testudines, Emydidae). *J. Herpetology* 12:569-70.