



LABORATORY OF EVOLUTIONARY AND ECOLOGICAL GENOMICS

Iowa Turtle Army



PRESENTATIONS AND PUBLICATIONS



Undergraduate students are denoted by *** and bold font

1. **Geffre***, A. C.**, Neuwald, J., Litterman, R. & Valenzuela, N. Does thermal variance induce differential developmental rates in a temperature-dependent sex determined turtle? *Midwest Ecology and Evolution Conference in Ames, Iowa* (2010).
2. **Kagima***, B. W.** & Valenzuela, N. Maternal effect genes for sex determination in painted turtles, *Chrysemys picta*. Joint Meeting of the Society for the Study of Amphibians and Reptiles, the Herpetologists' League, and the American Society of Ichthyologists and Herpetologists, Tampa, Florida. (2005).
3. **Kagima***, B. W.**, Valenzuela, N. M., Engstrom, T. & Bock, B. Preliminary population genetic study of the yellow spotted Amazon river turtle (*Podocnemis unifilis*) using microsatellite DNA data. Annual Meeting of the Society of Integrative and Comparative Biology, New Orleans, Louisiana. (2004).
4. **LeClere***, A.** & Valenzuela, N. Differential expression of multiple sex-determining genes in TSD turtles. Iowa Academy of Sciences Annual Meeting, Des Moines, Iowa. . (2005).
5. **LeClere***, A.** & Valenzuela, N. Comparative gene expression of multiple sex-determining genes in TSD and GSD turtles. Joint Meeting of the Society for the Study of Amphibians and Reptiles, the Herpetologists' League, and the American Society of Ichthyologists and Herpetologists, Tampa, Florida. (2005).
6. **Madad***, A. Z. B.**, R.L., **Widrig***, A. L.** & Valenzuela, N. Application of geometric morphometric sex identification techniques to Diamondback Terrapin hatchlings. Joint Meeting of the Society for the Study of Amphibians and Reptiles, the Herpetologists' League, and the American Society of Ichthyologists and Herpetologists, Tampa, Florida. (2005).
7. **Morrone***, S.** & **Siegle***, A.** Effects of Environment on Growth. *Iowa Academy of Sciences Annual Meeting*. (2009).
8. **O'Shaughnessy***, K.** *et al.* The interplay between physiology and the environment: Elucidating the genetic mechanism behind temperature dependent sex determination in the painted turtle. Ohio Physiological Society Conference, Columbus, OH. **O'Shaughnessy:** *Invited oral presentation. (2009).
9. **O'Shaughnessy***, K.** *et al.* The genomics of temperature dependent sex determination in *Chrysemys picta*. Experimental Biology FASEB Annual Meeting, Anaheim, CA. **O'Shaughnessy:** Poster & Invited oral presentation - Winner of NSF travel grant for undergraduates - Winner of "ASBMB's Best Poster Theme" in the category of Systems Biology, Synthetic Biology, and Signal Transduction. (2010).

10. **O'Shaughnessy***, K.** *et al.* Genetic mechanism of temperature-dependent sex determination in the painted turtle. Capital University Research Symposium, Columbus, OH. **O'Shaughnessy:** Winner of Capital University's endowed "Bruning Award" for excellence in research. (2010).
11. **Wenceslao***, K.**, Literman, R., Neuwald, J. & Valenzuela, N. The effect of temperature on fitness in painted turtles. . *Iowa Academy of Sciences Annual Meeting, Cedar Rapids, Iowa.* (2011).
12. **Burret***, A.**, Literman, R. & Valenzuela, N. How does temperature-dependent sex determination evolve? Studying the molecular evolution of two sex determining genes in *Carettochelys insculpta*, a turtle with a reverted TSD. . (In preparation for publication.).
13. **Kagima***, B. W.**, Valenzuela, N. M., Engstrom, T. & Bock, B. Preliminary population genetic study of the yellow spotted Amazon river turtle (*Podocnemis unifilis*) using microsatellite DNA data. *Integr. Comp. Biol.* **43**, 1025-1025 (2003).
14. Valenzuela, N., Shikano, T., **LeClere***, A.** & **Kagima***, B. W.** Comparative expression of genes involved in sex differentiation in TSD and GSD turtles. Fourth International Symposium on the Biology of Vertebrate Sex Determination, Kona, Hawaii. (2006).
15. Valenzuela, N., **LeClere***, A.** & **Kagima***, B. W.** Comparative gene expression of zygotic and maternal-effect genes involved in sex differentiation in TSD and GSD turtles. 14th Annual Growth Factor and Signal Transduction Conference on "Integration of Structural and Functional Genomics", Ames, Iowa. (2005).
16. Valenzuela, N., **LeClere***, A.** & **Kagima***, B. W.** Valenzuela, N., LeClere A.R., B.W. Kagima. Comparative gene expression of zygotic and maternal-effect genes involved in sex differentiation in TSD and GSD turtles. Annual Joint Meeting of the Society for the Study of Evolution, and the Society of Systematic Biologists, Fairbanks, Alaska. (2005).