

Dr. Elizabeth Adkins-Regan

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The lab of Dr. Adkins-Regan studies the hormonal and neural mechanisms of behaviour from a comparative and evolutionary perspective. She is the author of “Hormones and Animal Social Behavior” (2005), and her recent work has focused on reproductive behavior in birds, including courtship, mate choice, pair bonding, mating behaviour, and aggression.



Dr. Adkins-Regan’s integrative approach to research would inspire biology graduate students to incorporate elements of neuroscience and endocrinology into their work. She could lead a workshop on behavioural endocrinology research methods.

Recent publications

Banerjee, S. B., Dias, B. G., Crews, D. and Adkins-Regan, E. (2013). Newly paired zebra finches have higher dopamine levels and immediate early gene Fos expression in dopaminergic neurons. *European Journal of Neuroscience*, 38, 3731-3739.

Adkins-Regan, E. and Reeve, H. K. (2014). Sexual dimorphism in body size and the origin of sex-determination systems. *American Naturalist* 183, 519-536.

Baran, N. M. and Adkins-Regan, E. (2014). Breeding experience, alternative reproductive strategies and reproductive success in a captive colony of zebra finches (*Taeniopygia guttata*). *Public Library of Science One* 9(2), e89808.

Brennan, P. L. R. and Adkins-Regan, E. (2014). Endocrine regulation and sexual differentiation of avian copulatory sexually selected characters. *Neuroscience and Biobehavioral Reviews* 46, 557-566.