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Research Interests

The importance of sexual selection in sympatric speciation and introgression of lineages of fish; implications for conservation of endemic species in the southwest.

Testing models of sexual selection. The role of epigamic selection in the evolution of multiple male ornaments.

Breeding systems in fish and the maintenance of alternative reproductive tactics.

Scaling of ornaments and weapons.

Metabolic ecology as it applies to behavior.

Representative Publications

Kodric-Brown, A. and R.J.D. West. 2014. Asymmetries in pre-mating isolating mechanisms in a sympatric species flock of pupfish (*Cyprinodon*) *Behav. Ecol.* 25:69–75.
<https://doi.org/10.1093/beheco/art087>

Sibly, R.M., J.H. Brown, A. Kodric-Brown (Eds.) 2012. *Metabolic Ecology: A Scaling Approach*. Wiley-Blackwell.

Kodric-Brown, A. and J.H. Brown. 2007. Native fishes, exotic mammals, and the conservation of desert springs. *Front. Ecol. Env.* 5:549-553.

Kodric-Brown, A., R.M. Sibly and J.H. Brown. 2006. The allometry of ornaments and weapons. *PNAS* 103:8733-8738.

Kodric-Brown, A., and J. Rosenfield. 2004. Populations of Pecos pupfish (*C. pecosensis*) differ in their susceptibility to hybridization with sheepshead minnow (*C. variegatus*). *Behav. Ecol. Sociobiol.* 56:116-123.

Kodric-Brown, A., and U. Strecker. 2001. Responses of *Cyprinodon maya* and *C. labiosus* females to visual and olfactory cues of conspecific and heterospecific males. *Biol. J. Linnean Soc.* 73:541-548.

Kodric-Brown, A., and P.F. Nicoletto. 2000. Age and experience affects female choice in the guppy (*Poecilia reticulata*). *Am. Nat.* 157:316-323.

Kodric-Brown, A., 1989. Dietary carotenoids and male mating success: An environmental component of female choice. *Behav. Ecol. Sociobiol.* 25:393-401.

Kodric-Brown, A. and J.H. Brown. 1984. Truth in advertising: The kinds of traits favored by sexual selection. *Am. Nat.* 124:305-322.
