

Tenure-Track Faculty

**Kimberly Rosvall**

Assistant Professor of Biology

krosvall@indiana.edu

Ofc: JH A318A, 812-856-2375

Lab: JH A318, 812-855-4555

Rosvall Lab website (<http://www.indiana.edu/~krosvlab/>)

Mechanisms of Behavior website

(<http://www.bio.indiana.edu/faculty/groups/mob/index.shtml>)

**Program:**

Evolution, Ecology & Behavior

**IU affiliations:**

Center for the Integrative Study of Animal Behavior

(<http://www.indiana.edu/~animal/>)

Program in Neuroscience (<http://www.indiana.edu/~neurosci/>)

**Education:**

Ph.D. in Biology, Duke University, 2009

**Curriculum vitae:**

[http://www.indiana.edu/~krosvlab/Rosvall\\_CV.pdf](http://www.indiana.edu/~krosvlab/Rosvall_CV.pdf)

**Research areas:**

Behavior, ecology, evolution

**Short research description:**

Evolution of behavior, neuroendocrine mechanisms of behavior, physiological mechanisms of phenotypic plasticity and adaptation, sexual selection, behavioral genomics, behavioral ecology

**Short research description :**

Research in the Rosvall lab seeks to identify the genomic and physiological bases of behavioral adaptation and plasticity and how these mechanisms change over evolutionary time. We approach these questions by combining conceptual and analytical tools from animal behavior, neuroendocrinology, evolutionary ecology, physiology, and

genomics--almost entirely by studying free-living birds.

**Select Publications:**

Bergeon Burns, CM; Rosvall, KA; Hahn, TP; Demas, GE; Ketterson, ED. In press. Examining sources of variation in HPG axis function among individuals and populations of the dark-eyed junco. *Hormones & Behavior*.

Peterson, MP; Rosvall, KA; Taylor, CA; Choi, JH; Ziegenfus, C; Tang, H; Colbourne, JK; Ketterson, ED. In press. Potential for sexual conflict assessed via testosterone-mediated transcriptional changes in liver and muscle of a songbird J. *Experimental Biology*.

Rosvall, KA. In press. Proximate perspectives on the evolution of female aggression: Good for the gander, good for the goose? *Philosophical Transactions of the Royal Society, B*.

Rosvall, KA; Bergeon Burns, CM; Hahn, TP; Ketterson, ED. In press. Sources of variation in HPG axis reactivity and individually consistent elevation of sex steroids in a female songbird. *General & Comparative Endocrinology*.

Rosvall, KA. 2013. Life history trade-offs and behavioral sensitivity to testosterone: an experimental test when female aggression and maternal care co-occur. *PLoS ONE* 8(1): e54120.

Peterson, MP; Rosvall, KA; Choi, J; Ziegenfus, C; Tang, H; Colbourne, JK; Ketterson, ED. 2013. Testosterone affects neural gene expression differently in male and female juncos: a role for hormones in mediating sexual dimorphism and conflict. *PLoS ONE*. 8(4): e61784.

More publications: <http://www.indiana.edu/~krosvlab/publications.htm>