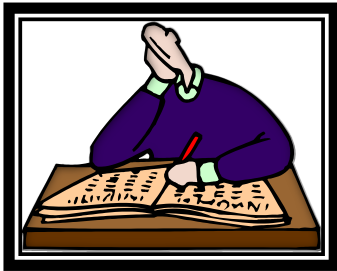


## Selected recent scholarly activity in Denison's Biology Department

**Dr. Warren Hauk** resented a poster entitled "An ISSR investigation of North American grapeferns (*Sceptridium*; Ophioglossaceae)" at the International Botanical Congress, Melbourne, Australia. He also had a paper entitled "A phylogenetic investigation of *Botrychium* s.s. (Ophioglossaceae): evidence from three plastid DNA sequence data sets" accepted for publication in *Systematic Botany*.

**Dr. Rebecca N. Homan** presented a poster entitled "Multiyear demographic study of three co-occurring pond-breeding amphibian species" at the Ecological Society of America annual meeting.



**Dr. Clare Jen** presented a paper entitled "Risk(y) Feminism: *Living Downstream* as Feminist Science Studies 'Politics of Life'" at the annual meeting of the Society for Social Studies of Science (4S). She also presented "Then, Duck and Cover; Now, Unsnap and Cover! A Transnational Feminist Science Studies Reading of The Emergency Bra" at the annual conference of the National Women's Studies Association (NWSA).

**Dr. Eric Liebl** recently attended the annual meeting of the Ohio Academy of Science where his senior research student **April R. Fields** ('11), presented "Characterizing the phenotype of 9.17 heterozygous, trio homozygous mutants in the *Drosophila* CNS".

**Dr. Andy McCall** presented, with **Luke Avery** ('12) as a coauthor, "Do changes in temperature correlate with changes in butterfly communities over a 30-year period in California?" at the Ecological Society of America Annual Meeting. He also presented his work with **Kelsy Espy** ('11) and **Colin Venner** ('09) titled "Does Leaf Damage Induce Anti-Herbivore Defenses in *Raphanus sativus* Petals or Pollen?" at this conference.

**Dr. Jessica Rettig and Dr. Geoff Smith**, along with **Eliza Miller** ('11), **Jennifer Clemmer** ('11), and **Anthony Burger** ('12) attended the annual meeting of the Ecological Society of America in August. Eliza and Jessica presented a research poster entitled, "Behavior in groups: measuring aggression between bluegill (*Lepomis macrochirus*) and invasive mosquitofish (*Gambusia affinis*)" and Jennifer and Jessica gave a joint oral presentation entitled, "An experimental analysis of foraging and aggressive behavior between mosquitofish and bluegill". Anthony, Geoff, and Jessica presented a research poster entitled, "Competition between invasive mosquitofish and native bluegill sunfish".

**Dr. Laura Romano** presented a poster titled "Isolation and characterization of genes associated with the formation of the larval skeleton in the pencil urchin, *Eucidaris tribuloides*" at the Developmental Biology of the Sea Urchin Conference held at the Marine Biological Laboratory in Woods Hole, MA. The poster is co-authored by **Emily Moore** ('12), **Donyea Moore** ('11), **Sadie Orlowski** ('09), and **Saira Tekelenburg** ('12) and a collaborator at Caltech.

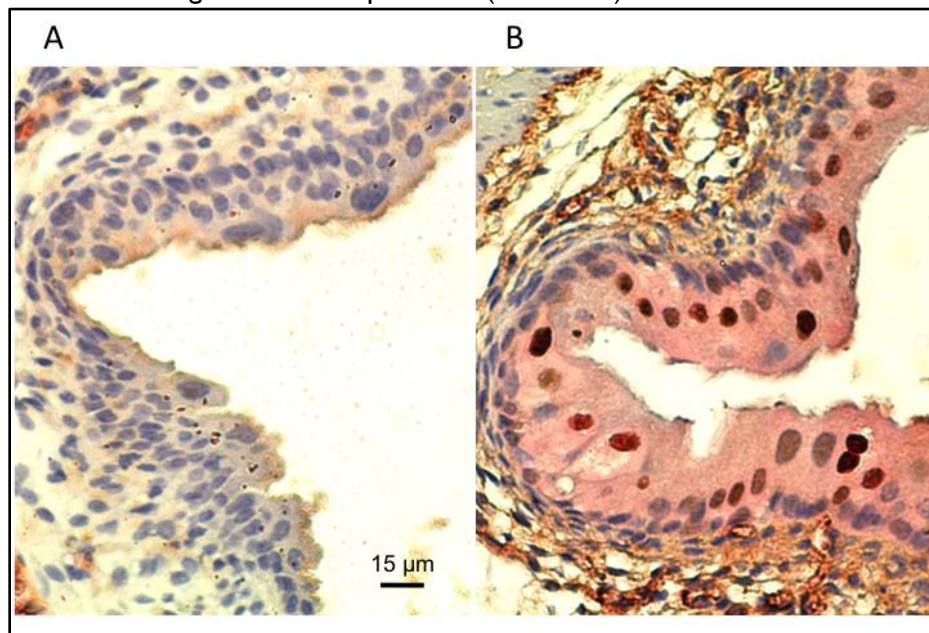
Photographs by **Dr. Tom Schultz** have been published recently in books including *Structural Colors in the Realm of Nature* by Shuichi Kinoshita, *Dragonflies and Damselflies of the West* by David Paulson, and *A Treatise on the Western Hemisphere Caraboidea (Coleoptera) Volume 2* by Terry Erwin and David Pearson; several will appear in the second edition of the textbook *Principles of Animal Communication* by Jack Bradbury and Sandra Vehrencamp.

**Dr. Geoff Smith** and Dr. S.V. Krishnamurthy, a Fulbright Scholar at Denison in 2009 and currently at Kevempu University in India, published "Combined effects of malathion and nitrate on early growth, abnormalities, and mortality of free feeding tadpoles of Wood Frog *Rana sylvatica*." in *Ecotoxicology*.

**Dr. Jeffrey Thompson** and **Anna Boudoures** ('12) attended the FASEB Summer Research Conference on Epigenetics, Chromatin, and Transcription this summer. They presented a poster at the conference, titled "Genetic evidence of a trans-histone post-translational modification pathway involved in UV-mediated DNA damage response in *Saccharomyces cerevisiae*."

**Dr. Christine Weingart**, recently added a service learning component to her Diversity of Microorganisms course in which students worked in teams to develop a microbiology-related activity that was then conducted in the Newark elementary after-school program. Her students then gave presentations regarding their activities to their peers. The strongest presentation, "**Bacteria That Help and Hurt Cows**," by **Bill Aukerman** ('10), **Katie Esselburn** ('10), **Joe Freundlich** ('10), and **Cristin Mustillo** ('10), was submitted to the American Society for Microbiology's website for Microbial Discovery Activities and was accepted for publication.

**Dr. Lina Yoo**, along with **Nicole Yohn** ('10), **Caitlyn Bingaman** ('12), and **Ashley DuMont** ('08) recently published "Phosphatidylinositol 3'-kinase, mTOR, and Glycogen synthase kinase-3 beta mediated regulation of p21 in human urothelial carcinoma cells" in *BMC Urology* (2011) 11:19. This article has a neat image of bladder epithelium (see below).



**Figure 7. *Pten* deletion causes an increase in cytoplasmic phosphorylated GSK-3  $\alpha/\beta$  ser9/21 in murine bladder epithelium.** Sections of bladder from (A) three day old wild-type *Ptenloxplloxpl* mice and (B) *Pten* deficient *Fabpl-Cre; Ptenloxplloxpl* mice were double immunostained for p21 (brown) and p-GSK-3 $\alpha/\beta$  ser9/21 (pink). Photos were originally taken at 200  $\times$  magnification. **From Yoo et al., 2011.**