

These Weeks in Biology

December 8th, 2007 - January 7th, 2008

Accolades

- **Graduate student Alicia Ebert** and **undergraduate student Nahid Kalani**, both of the Garrity lab, each won Best Poster Prizes at the graduate or undergraduate level, respectively, at the Front Range Neuroscience Symposium held on December 5, 2007. Congratulations!
- **Professor A.S.N. Reddy** has been named a *Professor Laureate* for the College of Natural Sciences for 2007-2010, the highest award given to faculty in the College.
- **Professor Daniel Bush** was elected to a three year term as Chair-Elect, Chair, and Retiring-Chair for the Section on Agriculture, Food, and Renewable Resources for the American Association for the Advancement of Science.

Welcome

- Welcome to **Wiebke Tapken**, Master student from Braunschweig, Germany. Wiebke comes from the lab of Ralph Mendel and will spend three months in the **Pilon/Pilon-Smits lab** to study a cytosolic NifS-like plant protein.

Research Funding and Grants

- Ph.D. students **Chrissy Alba-Lynn** and **Liz Harp** were approved for funding from the Sigma Xi Committee on Grants-in-Aid of Research, to support each of their dissertation research projects.

On the Road

- **Assistant Professor Dhruba Naug** made an invited presentation at the annual meeting of the Entomological Society of America in San Diego.
- Prof. **Don Mykles**, postdoc **Joe Covi**, graduate students **Erica Chao** and **Audrey McDonald**, and undergraduates **Brandon Bader** and **Casey Ehlinger** presented papers at the Society for Integrative & Comparative Biology meeting in San Antonio Jan. 2-6.
- **Prof. Gregory Florant** will be conducting research in the Galapagos Islands from Jan.7th to the 20th.
- **Professor Daniel Bush** was the Keynote Speaker at the regional Plant Biology Meeting at the Universite Libre de Bruxelles, Brussels, Belgium on December 17, 2007.

New Publications from Biology

- Poon, W.-S., P.-C. Shaw, **M.P. Simmons** and P.P.-H. But. 2007. "Congruence of molecular, morphological, and biochemical profiles in Rutaceae: a cladistic analysis of the subfamilies Rutoideae and Toddalioideae." *Systematic Botany* 32: 837-846.
- VerCauteren, K.C, P.W. Burke, G.E. Phillips, J.W. Fischer, N.W. Seward, **B.A. Wunder** and M.J. Lavelle. 2007. "Elk use of wallows and potential chronic wasting disease transmission." *Journal of Wildlife Diseases* 43(4):784-788 (this work is from a collaboration between **Professor Bruce Wunder** and researchers at the USDA National Wildlife Research Center here in Fort Collins).
- Jeffress, J.K., S.L. Page, **S.M. Royer**, E.D. Belden, J. Blumenstiel, **L.K. Anderson**, and R.S. Hawley. 2007. The formation of the central element of synaptonemal complex may occur by multiple mechanisms: The roles of the N- and C-terminal domains of the Drosophila C(3)G protein in mediating synapsis and recombination. *Genetics* 177:2445-2456.

- **Doug Van Hoewyk, Marinus Pilon, Elizabeth A.H. Pilon-Smits.** 2008. "The functions of NifS-like proteins in plant sulfur and selenium metabolism." *Plant Science* 174: 117–123
- **Doug Van Hoewyk, Hideki Takahashi, Eri Inoue, Ann Hess, Masanori Tamaoki, Elizabeth A. H. Pilon-Smits.** 2008. "Transcriptome analyses give insights into selenium-stress responses and selenium tolerance mechanisms in Arabidopsis." *Physiologia Plantarum* published online. doi: 10.1111/j.1399-3054.2007.01002.x
- **Colin F. Quinn, John L. Freeman, Miriam L. Galeas, Erin M. Klamper, Elizabeth A. H. Pilon-Smits.** 2008. "The role of selenium in protecting plants against prairie dog herbivory: implications for the evolution of selenium hyperaccumulation." *Oecologia* published online. DOI: 10.1007/s00442-007-0907-8
- **Miriam L. Galeas, Erin M. Klamper, Lindsay E. Bennett, John L. Freeman, Boris C. Kondratieff, Colin F. Quinn, Elizabeth A. H. Pilon-Smits** "Selenium hyperaccumulation reduces plant arthropod loads in the field." *New Phytologist* published online. doi: 10.1111/j.1469-8137.2007.02285.x
- **Tamaoki M, Freeman JL, Pilon-Smits EAH.** 2008. "Cooperative ethylene and jasmonic acid signaling regulates selenite resistance in Arabidopsis thaliana." *Plant Physiology* published online: <http://www.plantphysiol.org/cgi/content/short/pp.107.110742?keytype=ref&ijkey=W2VJHwU49619FmD>.
- **Ebert AM, McAnelly CA, Srinivasan A, Linker JL, Horne WA, Garrity DM.** 2008. "Ca²⁺ channel-independent requirement for MAGUK family CACNB4 genes in initiation of zebrafish epiboly." *Proc. Natl. Acad. Sci. U.S.A.* 105(1):198-203 Epub 2008 Jan 2

TWIB is published (semi) weekly by the Department of Biology, Colorado State University, edited by M. Antolin