Professor **Michelle (Shelley) McGuire** traveled to Dhaka, Bangladesh this summer to deliver a keynote lecture entitled "Maximizing Nutrition During Pregnancy for Maternal Health" to a large group of local physicians dedicated to improving the health of Bangladeshi women and infants.

[Updated 08/12/2014]

Professor **Michelle (Shelley) McGuire** gave the invited presentation "Human Milk and Microbes: Exploring a New Avenue in Infant Research" at the Inland Northwest Genomics Research Symposium at the University of Idaho. **Janae Mosely** (MS in Zoology, 2014) an advisee of Dr. McGuire’s, was awarded the top prize for her poster presentation entitled "A comparison of bacterial communities in feces of breastfed infants determined by 454 pyrosequencing and Illumina MiSeq."

[Updated 08/12/2014]

Professor **Jesse Brunner** received a $10,000 grant from the American Association of Zoo Veterinarians to validate methods for detecting emerging Ranavirus pathogens of animals. Professor Brunner was also a coauthor of three recent papers: "Detection of the emerging amphibian pathogens *Batrachochytrium dendrobatidis* and *Ranavirus* in Russia" in *Diseases of Aquatic Organisms* (110: 235-240), "Prevalence of human-active and variant 1 strains of the tick-borne pathogen *Anaplasma phagocytophilum* in hosts and forests of eastern North America" in *The American Journal of Tropical Medicine and Hygiene* (doi:10.4269/ajtmh.13-0525), and "Co-infection of blacklegged ticks with *Babesia microti* and *Borrelia burgdorferi* is higher than expected and acquired from small mammal hosts” in *PLoS One* (9(6):e99348).

[Updated 08/12/2014]

Professor **Eric Roalson**, SBS graduate student **Josh Rosnow**, and Emeritus Regents Professor **Gerry Edwards** recently published the article "Positive selection of Kranz and non-Kranz C4 phosphoenolpyruvate carboxylase amino acids in Suaidoideae (Chenopodiaceae) in the *Journal of Experimental Botany* (65: 3595–3607). Professor Roalson was also a coauthor of the paper "Notes on the typification and nomenclature of *Salsola* and *Kali* (Chenopodiaceae) published in *Taxon* (63: 647–650).

[Updated 08/12/2014]

Dr. **John Clark**, who earned his PhD in Botany in SBS, has been appointed Executive Director of the Center for Plant Conservation (http://www.centerforplantconservation.org/), a non-profit organization that works with botanical gardens and arboreta to conserve imperiled plants of the United States and Canada.

[Updated 08/12/2014]

Professor **Joanna Kelley** recently published the article "**Compact genome of the Antarctic midge is likely an adaptation to an extreme environment**" in *Nature Communications*. You can read coverage of this research by **WSU**, the **BBC** and **Yahoo News** by clicking these links.

[Updated 08/12/2014]
SBS Botany PhD Daniel Mullendore and Professor Michael Knoblauch, PhD, published in Nature Communications the article **CHOLINE TRANSPORTER-LIKE1 is required for sieve plate development to mediate long-distance cell-to-cell communication.**

[Updated 08/12/2014]

**Dr. Adelina Petrova** in collaboration with Professor Michael Smith from Kansas State University published a paper in Journal of Insect Molecular Biology, titled “Immunodetection of a brown planthopper (Nilaparvata lugens Stål) salivary catalase-like protein into tissues of rice, Oryza sativa.” This paper provides rare evidence for secretion of phloem feeding insect salivary compound into the host plant. You can read the paper here, http://onlinelibrary.wiley.com/doi/10.1111/imb.12058/abstract

[Updated 04/08/2014]

SBS graduate students **Sarah Anderson, Marcus Hooker, Molly Perchlik** and **Alex Williams** were judges at the Sunnyside Elementary School Science Fair (Pullman) during WSU Spring Break. The kids appreciate “real” scientists taking an interest in their projects, and they like the comments judges provide. Parents often comment that they provide talking points for the dinner table.

[Updated 04/08/2014]


[Updated 02/21/2014]

**News from the Dybdahl Lab:**

- **Jackie Schultz**, SBS, '14, received a College of Arts and Science Minigrant ($1400) to collaborate with **Dr. Mark Dybdahl** on a project titled, "Ploidy versus parasitic infection in a New Zealand freshwater snail."

- **Erica Kistner**, M.S. (2011) and **Mark Dybdahl** recently had a manuscript accepted for publication by Biological Invasions. This is the second published paper from Erica's Masters thesis research.

  Kistner, E.J. and **M.F. Dybdahl**. *In press.* Analogous variation in the shell morphology between sympatric native and invasive aquatic snails. Biological Invasions.

- While on sabbatical leave in Switzerland, **Dr. Mark Dybdahl** presented a seminar to the Evolutionary Biology group at the University of Basel on January 7, 2014, entitled: "The molecular basis of host-parasite coevolution: a synthesis of theoretical models and immune mechanisms"

- **Dr. Mark Dybdahl**, associate professor in SBS, is on sabbatic leave to the Swiss Federal Technical Institute (ETH) in Zurich, Switzerland. Dr. Dybdahl is working on
research that synthesizes coevolutionary theory and molecular immune mechanisms involved in host-parasite interaction. He is also giving presentations on his research in the Joint General Meeting of the Evolutionary Biology group at ETH and at the EAWAG Aquatic Ecology group in Dubendorf, Switzerland.

[Updated 02/21/2014]

**Tina Krauss**, Academic Coordinator for Undergraduate Programs, received a scholarship from NACADA to attend their regional conference in Vancouver in March.

[Updated 02/21/2014]

The College of Arts and Sciences’ Ana Maria Rodriguez-Vivaldi (Associate Dean, Student Affairs and Global Education) and **Dr. Kathy Beerman** are traveling to Guatemala in March, with 25 CAS students (12 from SBS) on a medical mission. The main goal of this particular medical mission is surgical repair of cleft palate/cleft lip, oral surgery (tooth extraction), and maternal-infant care. WSU is one of several universities partnered with the nonprofit organization Hearts in Motion that provides students with the opportunity to work with a team of healthcare professionals abroad. Two SBS and two Foreign Language students were awarded scholarships to go on this trip.

[Updated 02/21/2014]


[Updated 02/14/2014]

**Sarah Anderson**, PhD Candidate, recently won the Ecological Society of America’s (ESA) Graduate Student Policy Award. The award pays for travel and provides training to take part in the Biological Ecological Sciences Coalition's Congressional Visits Day. Here is the press release with the details [http://www.esa.org/esa/?p=10531](http://www.esa.org/esa/?p=10531).

[Updated 01/29/2014]

**News from Dr. Elissa Schwartz:**

- **Dr. Elissa Schwartz** has been invited to present her recent work in a mini-symposium at Texas Tech in April 2014. The title of the presentation will be "Immune control of equine infectious anemia virus infection by CTLs and antibodies." SBS PhD student Karin Harrington is also an author of this work.

- The original research article, "Individual-based computational model used to explain pandemic 2009 H1N1 in rural campus community" by Lydia Miller, Therese Jones, Mindy Morgan, Sergey Lapin and **Elissa J. Schwartz** was published in the December 2013 issue of the Journal of Biological Systems. You can find the article at
The original research article, "Understanding virus–host dynamics following EIAV infection in SCID horses" by Stanca M. Ciupe and Elissa J. Schwartz will be published in the February issue of the Journal of Theoretical Biology. You can find the article at https://www.sciencedirect.com/science/article/pii/S0022519313005286.

[Updated 01/29/2014]

Josh Rosnow, PhD candidate, was recently published in Biomed Central’s journal BMC Plant Biology for his article, “Exploring mechanisms linked to differentiation and function of dimorphic chloroplasts in the single cell C4 species Bienertia sinuspersici.” You can find his article online here: http://www.biomedcentral.com/content/pdf/1471-2229-14-34.pdf.

[Updated 01/29/2014]

News from Carter Lab:

- **Dr. Patrick Carter** was recently awarded the National Academic Advising Association, Region 8, Faculty Academic Advisor Certificate of Merit. Region 8 includes colleges and universities in British Columbia, Alberta, Alaska, Oregon, Idaho, Montana and Washington. Additional details can be found on the following link: http://wsuacada.org/two-wsu-advisors-receive-regional-awards/.

- Three graduate students from the lab of Patrick Carter in the School of Biological Sciences have published results from their research. Anna Heink (MS, 2012), Kristen Irwin (PhD, expected 2014) and Kristy Bellinger (PhD, expected 2015) published their work in late 2013 and early 2014. The citations are:

[Updated 01/29/2014]

Dr. Brian Kemp was recently published in the Journal of Archaeological Science for his article, “Evaluation of Methods that Subdue the Effects of Polymerase Chain Reaction Inhibitors in the Study of Ancient and Degraded DNA.” His coauthors on the article are Cara Monroe, Kathleen G. Judd, Erin Reams and Colin Grier.

[Updated 01/29/2014]