

## Presentations by Faculty and Students.

(**Bold** = **Biological Sciences Faculty**, underlined = Biological Sciences Graduate Student, *italicized* = *Biological Sciences Undergraduate Student*)

**Beane WS**, Deochand ME, *Bacher J*. Calcium Signaling and Regenerative Shape. 3<sup>rd</sup> North American Planarian Meeting, Chicago, IL, September 2015.

Paskin TR, *Bacher J*, **Beane WS**. Planarian “Vision”: A Combination of Ocular and Dermal Phototransduction. 3<sup>rd</sup> North American Planarian Meeting, Chicago, IL, September 2015.

Deochand ME, *Duong KN*, and **Beane WS**. Novel Ablation Assay Reveals Eye Regeneration Program. Annual meeting of the Michigan Chapter of the Society for Neuroscience, Mt. Pleasant, MI, May, 2015.

Dickens, J.M. and **C.A. Byrd-Jacobs**. Plasticity of mitral cell dendritic morphology in the adult zebrafish olfactory bulb following chemical deafferentation. Society for Neuroscience, 2015.

Trimpe, D.M and **C.A. Byrd-Jacobs**. Differential effects on ventricular zone cell genesis following deafferentation or direct injury to the olfactory bulb in adult zebrafish. Society for Neuroscience, 2015.

Trimpe, D.M. and **C.A. Byrd-Jacobs**. Patterns of olfactory bulb cell genesis are altered with long-term, partial deafferentation in adult zebrafish. Michigan Chapter of Society for Neuroscience, 2015.

*Hentig, J. T.* and **C.A. Byrd-Jacobs**. Zinc sulfate affects ciliated olfactory sensory neurons more than microvillous olfactory sensory neurons in the adult zebrafish. Association for Chemoreception Sciences, 2015.

*Hentig, J. T.* and **C.A. Byrd-Jacobs**. Zinc sulfate affects ciliated olfactory sensory neurons more than microvillous olfactory sensory neurons in the adult zebrafish. West Michigan Regional Undergraduate Science Research Conference at the Van Andel Institute, 2015.

*Hentig, J. T.* and **C.A. Byrd-Jacobs**. Zinc sulfate affects ciliated olfactory sensory neurons more than microvillous olfactory sensory neurons in the adult zebrafish. Michigan Chapter of Society for Neuroscience, 2015.

**K.M. Docherty**. Toward belowground restoration: understanding the effects of land management on soil microbial communities in a tallgrass prairie. Ecological Society of America (ESA), Baltimore, MD, August 2015.

D.S. Pearce, B. Hoover, G.A. Nevitt, **K.M. Docherty**. The role of environmental and genetic factors in shaping the microbiome of a highly olfactory bird species. Ecological Society of America (ESA), Baltimore, MD, August 2015.

D.S. Pearce, B. Hoover, G.A. Nevitt, **K.M. Docherty**. The role of environmental and genetic

factors in shaping the microbiome of highly olfactory bird species. 7<sup>th</sup> Annual Argonne Soil Metagenomics Meeting, Lisle, IL, October 2015.

**K.M. Docherty**, K.M. Lemmer, R.L. Hale. Terrestrial Influences on Airborne Microbial Communities. 7<sup>th</sup> Annual Argonne Soil Metagenomics Meeting, Lisle, IL, October 2015.

Valenti, A.B., Boothby-Shoemaker, W.T., Katbamna, B., Ide, C.F. (2015) Increased presence of inflammatory proteins within the pontocerebellar tracts in Multiple System Atrophy. Society for Neuroscience Abstracts, Chicago, Illinois

Katbamna, Bharti, Beebe, Thomas, **Ide, C.F.** (2015) Ectopic Sox2 cells and neuroglial heterotopia in the hindbrain of the frog model of fetal alcohol syndrome. Society for Neuroscience Abstracts, Chicago, Illinois

**Charles Ide.** (2015) Understanding MSA at the Molecular Level: Setting the Basis for New Therapeutics. Keynote address, May 28, 2015, to Hope for MSA, and Dayton Barefoot Runners MSA fundraiser, Dayton, Ohio.

**Jellies, J.** and T.K.H. Groves. (2015). In which the eyes of the beholder are a worm's: Mapping of multiplexed visual cues across the array of cephalic eyes in a leech. Society for Neuroscience, Chicago (330.11).

Groves, T.K.H. and **J. Jellies.** (2015). Responses across ocular and presumptive non-ocular cephalic visual inputs in the leech. MI SFN 46:

Miller, D.A., M.Ellinger, **J. Jellies**, A. Ferguson, **C. L. Linn** , and M. E. Koelling (2015). Pre-computed optimal current stimuli evoke similar neuron membrane voltages as non-optimal stimuli. MI SFN 46:

Webster M, Gossman C, Linn CL. 2015. Proliferation of retinal ganglion cells in a mammalian model. *ARVO abstract.* # 2173435.

Miller DA, Ellinger M, **Jellies J**, Ferguson A, **Linn CL**, Koelling ME. 2015. Generating Neuron Membrane Action Potentials Using Optimal Input Current Stimuli in the Medicinal Leech. *Soc. Neurosci Abstract* Chicago, Ill.

**S.B. Malcolm** “Host plants and migration success: A holistic approach” Invited seminar at Monsanto Corporation, St. Louis, Missouri, 19 May 2015

**S. Malcolm** and B. Slager. Migration, host plant use and chemical defence in the southern monarch butterfly, *Danaus erippus*. Invited symposium speaker at V Encuentro de Lepidoptera Neotropicales in Tucumán, Argentina, 16-20 November 2015

**Rossbach, S., C. Beaver, A. Williams,** E. Atekwana, L. Slater, D. Ntarlagiannis, A. Lund. Field Evidence for Magnetite Formation by a Methanogenic Microbial Community AGU Fall Meeting, San Francisco, CA, December 14-18, 2015.

Slater, L., A. Lund, E. Atekwana, **S. Rossbach**, D. Ntarlagiannis, B. Bekins. Indications of Coupled Carbon and Iron Cycling at a Hydrocarbon-Contaminated Site from Time-Lapse Magnetic Susceptibility (MS) Profiles. AGU Fall Meeting, San Francisco, CA, December 14-18, 2015.

Beaver, C., D. Ntarlagiannis, C. Kimak, L. Slater, E. Atekwana, **S. Rossbach**. Use of the Complex Conductivity Method to Monitor Hydrocarbon Degradation in Brackish Environments. AGU Fall Meeting, San Francisco, CA, December 14-18, 2015.

Beaver, C. L., A. Lund, E. Atekwana, L. Slater, and **S. Rossbach**. Microbial communities at hydrocarbon-contaminated sites and their relationships to magnetic susceptibility. Midwest GeoBio 2015 Geobiology Symposium, Bloomington, IN, October 10, 2015.

**S. Rossbach**, Beaver, C., A. Williams, L. Slater and E. Atekwana. Biogeophysics as a tool for “smart sampling” during the microbial degradation of hydrocarbons. 13<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO 13) The Microbial Continuity Across Changing Ecosystems, Milano, Italy, 14-18 June 2015.

Beaver, C., A. Williams, **S. Rossbach**, E. Atekwana, E. Atekwana, L. Slater, and D. Ntarlagiannis. Integrating microbial and geophysical methods for determining biodegradation pathways. 2015 Bioremediation Symposium, Miami, Florida, May 18-21, 2015.

Ntarlagiannis, D., L. D. Slater, C. Kimak, P. Argyrakakis, E. A. Atekwana and **S. Rossbach**. Geoelectrical characterization and monitoring of hydrocarbon degradation. 2015 Bioremediation Symposium, Miami, Florida, May 18-21, 2015.

Atekwana, E., L. Slater, D. Ntarlagiannis, C. Beaver, A. Williams, and **S. Rossbach**. Magnetic susceptibility as a tool for assessing bioremediation of hydrocarbon contaminated sites. 2015 Bioremediation Symposium, Miami, Florida, May 18-21, 2015.

Williams, A., C. Beaver, E. Atekwana, L. Slater and **S. Rossbach**. Microbial Community Analysis in Petroleum-Contaminated Sediments Displaying High Magnetic Susceptibility. Michigan Branch of the American Society for Microbiology Spring Meeting, Ypsilanti, MI, April 10-11, 2015.

S.R. Joseph (REU undergrad), J.M. Vianney and **J.M. Spitsbergen**. The Effect of Rk35 Anti-Myostatin on Muscle Growth and Neurotrophic Factor Expression in Heart Tissue and Cardiac Muscle Cells in Culture. Annual Biomedical Research Conference for Minority Students (ABRCMS), 2015.

**M.J. Vonhof**. A review of North American bat population genetic research and implications for treatment. White Nose Syndrome Treatment Workshop, Grand Rapids, MI, 2015.

**M.J. Vonhof**, T. Carter, R. Eversole, and M.K. Keel. Does chitosan combat growth of *Pseudogymnoascus destructans* and prevent White Nose Syndrome? An experimental test. White Nose Syndrome Treatment Workshop, Grand Rapids, MI, 2015.

**M.J. Vonhof**. Wind energy technologies: Opportunities and challenges. WMU Lee Honors College Lycaeus Lecture Series on Sustainable Energy Future, 2015.

J.D. Smith, **S.A. Gill**, K.M. Baker, and **M.J. Vonhof**. The effect of urbanization on prevalence and diversity of avian blood parasites. Michigan Bird Conservation Initiative, Tustin, MI, 2015.

D.C. Carter, **K. Docherty**, **S. Gill**, K. Baker, **M.J. Vonhof**. Avian antibiotic resistant bacteria: An investigation across bird species and land use in southwest Michigan. Michigan Bird Conservation Initiative, Tustin, MI, 2015.