

## 2013 Fall Research Symposium Schedule

### Poster presentations

1:30-2:00 Poster session: Nobel Hall Atrium/Lobby
<b>Lance Erickson</b> <i>Mercury dynamics in sub-arctic lake sediments across a methane ebullition gradient</i>
<b>Kendyl Greimann</b> <i>Alzheimer's Disease and amyloid beta postsynaptic signaling through anchored calcineurin</i>
<b>Monica Johnson</b> <i>Mapping the binding surface of cryptochrome (CRY) to period (PER)</i>
<b>Kory Kolis</b> <i>Pollinator efficiency of Echinacea angustifolia: which bees get an A?</i>
<b>Carl Schiltz</b> <i>Analyzing the effect of endocytosis on membrane turnover in C. elegans</i>
<b>Brianna Titus</b> <i>The role of autoantibodies in inherited neurological storage disorders</i>

### Oral presentations

Time	NHS Auditorium	NHS 121
2:05	<b>Showcase presentation 1</b> <b>Travis Sigafos</b> <i>The relationship between salicylate-induced tinnitus and circadian rhythmicity by means of the acoustic startle paradigm</i>	<b>Showcase presentation 2</b> <b>Greg Wiessner</b> <i>Developmental expression of calbindin-D<sub>28k</sub> in the chorioallantoic membrane of viviparous Zootoca vivipara under manipulated ex-utero calcium provision</i>
2:30	<b>Will Doebler and Josh Wolanyk</b> <i>The Gustavus time of flight mass spectrometer</i>	<b>Michael Sterling</b> <i>Enantiodivergent synthesis of a nipecotic acid derivative and determination of its catalytic activity in antisymmetric Mannich reactions</i>
2:45	<b>Eric Hanson</b> <i>Wireless power transfer</i>	<b>Jamie Brooks</b> <i>Synthesis and characterization of gold nanospheres</i>
3:00	Break	

	NHS 201	NHS 121
3:10	<b>Paige Miller</b> <i>The Perfect Storm: Factors that lead to increased transmission and drug resistance emergence of heartworm in the United States</i>	<b>Anna Huff</b> <i>Photodegradation of methylmercury in the St. Louis River</i>
3:25	<b>Reina Nielsen</b> <i>Variation in ecophysiological traits</i>	<b>Amy Christiansen and Alexa Peterson</b> <i>Photodegradation of three imidazolinone herbicides: imazapic, imazamox, and imazaquin</i>
3:40	<b>Beth Wiese</b> <i>Inhibition of <math>\gamma</math>-glutamylcysteine ligase</i>	<b>John Danforth</b> <i>Comparison of FMS to standard C18 and carbon phase RPLC columns using selectivities for aromatic isomers</i>
3:55	Break	

	<b>NHS 201</b>	<b>NHS 121</b>
4:05	<p><b>Marian Lund</b>  <i>HyGRP stress response genes, qLTG3-1 and Glyma17g14850, improve seedling germinability under low temperature and salt stress conditions in Arabidopsis thaliana</i></p>	<p><b>Bryan Voigt</b>  <i>Determination of methylmercury-dissolved organic matter(DOM) binding constants</i></p>
4:20	<p><b>Michelle Hulke</b>  <i>n-3 PUFA regulation of sortilin 1 in diabetic hyperlipidemia</i></p>	<p><b>Rachel Mohr, Zach Van Orsdel, and Emily Ford</b>  <i>How is physical depositional setting related to silica chemistry in the Platte River, USA?</i></p>
4:35	<p><b>Brooke Meyer</b>  <i>Physiological, facial, and self-report anger responses following mindfulness meditation vs. self-regulation techniques</i></p>	<p><b>Sydney Firmin</b>  <i>An unusual Mesoproterozoic carbonate unit: relic of a saline lake?</i></p>