

Laura L. Klein

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Education

Ph.D. Biology	Saint Louis University (SLU)	Present
M.S. Botany	Miami University (MU)	2012
B.S. Biology	University of Wisconsin Oshkosh (OSH)	2010

Thesis: Morphology and Introgressive Hybridization in North American *Diphasiastrum*

Advisor: R. James Hickey, Ph.D.

Morphometrics, hybrid indices, spore fertility rates, and multivariate statistical analyses were used to assess North American *Diphasiastrum complanatum*, *D. digitatum*, *D. tristachyum* and their sympatric, fertile, intermediate forms to investigate their evolutionary relationships.

Teaching Experience and Interests

<i>Saint Louis University</i>	Biology of Plants & Fungi (BIOL 326) - Lab	Spring 2013
	Principles of Biology 1 (BIOL 104) - Lab	Fall 2012, 2013
<i>Miami University</i>	Evolution (BOT 121) - Discussion	Spring 2011
	Field Botany (BOT 155) - Lecture and Lab	Fall 2010, 2011 Spring 2011

Courses Prepared to Teach:

General Biology, General Botany, Plant Taxonomy, Plant Anatomy, Plant Morphology, Agrostology, Human Anatomy and Physiology.

Publications

Klein, Laura L. Morphology and Introgressive Hybridization in North American <i>Diphasiastrum</i> . Masters Thesis. Miami University, OH	2012
Deyuan, Hong, Ge Song, Thomas G. Lammers, <u>Laura L. Klein</u> . Campanulaceae: Flora of China, vol. 19: 505-563. Wu Z.Y., P.H. Raven, D.Y. Hong, (eds.). Science Press, Beijing, China; Missouri Botanical Garden, St. Louis, MO	2011
Lammers, Thomas G., <u>Laura L. Klein</u> . A synopsis of <i>Codonopsis</i> subg. <i>Pseudocodonopsis</i> (Campanulaceae: Campanuloideae), with description of a new species of uncertain provenance. <i>Botanical Studies</i> 51: 553-561.	2010

Presentations

Greg, Matthew, <u>Laura L Klein</u> , David Bogler, Ivan Jimenez, and Allison Miller. Morphometric Analysis of leaf variation in three North American grape	2013 <i>poster</i>
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- species (*Vitis acerifolia*, *V. riparia*, and *V. rupestris*). 60th annual systematics symposium of the Missouri Botanical Garden, St. Louis, MO. October 12.
- Klein, Laura L, Dániel Pap, Laszlo Kovács, Katie Hyma, Jason Londo, and Allison J Miller. Population Genetics of Native *Vitis riparia* and *Vitis rupestris* in Sympatry and Allopatry. 60th annual systematics symposium of the Missouri Botanical Garden, St. Louis, MO. October 12. 2013
poster
- Greg, Matthew, Laura L Klein, David Bogler, Ivan Jimenez, and Allison Miller. Morphometric Analysis of leaf variation in three North American grape species (*Vitis acerifolia*, *V. riparia*, and *V. rupestris*). Third annual Saint Louis Ecology, Evolution, and Conservation retreat, St. Louis, MO. September 28. 2013
poster
- Klein, Laura L, Dániel Pap, Laszlo Kovács, Katie Hyma, Jason Londo, and Allison J Miller. Population Genetics of Native *Vitis riparia* and *Vitis rupestris* in Sympatry and Allopatry. Third annual Saint Louis Ecology, Evolution, and Conservation retreat, St. Louis, MO. September 28. 2013
poster
- Klein, Laura L and R James Hickey. Morphology and Introgressive Hybridization in North American Ground Cedar, *Diphasiastrum* (Lycopodiaceae). Botany 2013, New Orleans, LA. July 30. 2013
presentation
- Greg, Matthew, Laura L Klein, David Bogler, Ivan Jimenez, and Allison Miller. Morphometric Analysis of leaf variation in three North American grape species (*Vitis acerifolia*, *V. riparia*, and *V. rupestris*). Botany 2013, New Orleans, LA. July 29. 2013
poster
- Greg, Matthew, Laura L Klein, David Bogler, Ivan Jimenez, and Allison Miller. Morphometric Analysis of leaf variation in three North American grape species (*Vitis acerifolia*, *V. riparia*, and *V. rupestris*). Research Experience for Undergraduates Missouri Botanical Garden symposium, St. Louis, MO. July 26. 2013
poster
- Klein, Laura L, Dániel Pap, Laszlo Kovács, Katie Hyma, Jason Londo, and Allison J Miller. Population Genetics of Native *Vitis riparia* and *Vitis rupestris* in Sympatry and Allopatry. Fifth conference of the Grape Research Coordination Network (GRCN), Davis, CA. July 11. 2013
poster
- Callen, Steven T, Laura L Klein, and Allison J Miller. Comparative Analysis of the Climatic Niches of Nine Native North American Grape (Vitaceae) Species. Missouri Grape and Wine Symposium, St. Louis, MO. May 30. 2013
presentation
- Klein, Laura L and R James Hickey. Morphology and Introgressive Hybridization in North American Ground Cedar, *Diphasiastrum*. Second annual Saint Louis Ecology, Evolution, and Conservation retreat, Elsay, IL. September 22. 2012
poster
- Klein, Laura L and R James Hickey. Morphology and Introgressive Hybridization in North American Ground Cedar, *Diphasiastrum*. Miami University graduate research forum, Oxford, OH. November 18. 2011
poster

Awards

Botany 2013 Travel Award, Pteridological Section, SLU	2013
Reis Biological Research Station Research Grant, SLU	2013
Grape Research Coordination Network Stipend, SLU	2012
Willard Sherman Turell Herbarium Travel Grant, MU	2011

Research and Field Experience

Field collections of allopatric and sympatric populations of <i>Vitis riparia</i> and <i>V. rupestris</i> in northern New York, western Wisconsin, southern Missouri, western Kansas, and northern Arkansas, SLU	2013
DNA extractions from <i>Vitis</i> species, SLU	2012
Field collections in southwest Missouri, SLU	2012
Field collections in northern Wisconsin, MU	2011
Floristic inventory, field collections in Puerto Rico	2011
With Dr. R. James Hickey and Dr. Michael Vincent, MU	
SEM, vegetative and reproductive study of <i>Arabidopsis lyrata</i> , research assistant; with Dr. Robert Wise, OSH	2010
Taxonomic revision and morphological descriptions – Flora of Paraguay, Campanulaceae; with Dr. Thomas Lammers, OSH	2010
Wood macerations, slide preparation, gel electrophoresis; with Dr. Robert Wise, OSH	2010
Scanning and Transmission Electron Microscopy specimen preparation and operation; with Dr. Todd Kostman, OSH	2009
Taxonomic revision, morphological descriptions, key writing – Flora of China, Campanulaceae; with Dr. Thomas Lammers, OSH	2009

Service

Association for Women in Science (AWIS), St. Louis Chapter Treasurer	2012-present
Talawanda School District Science Week volunteer	2011
MU Botany Department G.S.A. Social Chair	2010-2011
Sigma Alpha Pi – National Society of Leadership & Success	2006-present

Professional Affiliations

Association for Women in Science: National and St. Louis Chapter member	2012-present
American Fern Society	2011-present
International Association for Plant Taxonomy	2010-present
Botanical Society of America	2010-present
American Society of Plant Taxonomists	2009-present

Additional Work Experience

<i>Herbarium Technician</i> , Student Titan Employment Program, OSH	2009-2010
<i>Server</i> , Tortilla Flats, Oshkosh, WI	2009-2010
<i>Costume shop worker</i> , UW-Oshkosh Theater Department, OSH	2008-2010
<i>Murder mystery actor</i> , RSVP Events, Appleton, WI	2008-2010
<i>Supervisor, Instructor, Lifeguard</i> , Neenah High School Pool	2003-2010