

Timothy J. Pegg

Midwestern State University
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EDUCATION

Doctor of Philosophy, Botany; August 13, 2021
Miami University, Oxford, OH

Master of Science, Plant Biology; Concentration: Botany; May 13, 2016
University of Oklahoma, Norman, OK

Bachelor of Science, Biology; Concentration: Biotechnology; May 16, 2009
Frostburg State University, Frostburg, MD

Bachelor of Science, Chemistry; Concentration: Biochemistry; May 16, 2009
Frostburg State University, Frostburg, MD

RELEVANT EMPLOYMENT

<u>Assistant Professor</u> , Dept. of Biology, Midwestern State University, Wichita Falls, Texas <i>General Life I (BIOL 1114)</i> <i>Plant Systematics (BIOL 3534)</i>	<i>Botany: Plant Life (BIOL 3214)</i> <i>Plant Anatomy (BIOL 4463)</i>	2022 – Present
<u>Visiting Assistant Professor</u> , Dept. of Biology & Environmental Science, Marietta College, Marietta, OH <i>Modern Biology (BIOL 101)</i> <i>Intro Bio Lab I (BIOL 105)</i>	<i>Flowering Plants (BIOL 311)</i>	2021 – 2022
<u>Doctoral Dissertation Fellowship</u> , Dept. of Biology, Miami University, Oxford, OH		2020 – 2021
<u>Teaching Assistant</u> , Dept. of Biology, Miami University, Oxford, OH <i>General Biology (BIO 115)</i> <i>Introduction to Botany (BIO 191)</i>	<i>Plant & Fungal Diversity (BIO 314)</i> <i>Plant Physiology (BIO 425W/525)</i>	2016 – 2020
<u>Teaching Assistant</u> , Dept. of Microbiology and Plant Biology, University of Oklahoma, Norman, OK <i>General Botany (BIOL 1114)</i>		2014 – 2016
<u>Research Assistant</u> , Dept. of Microbiology and Plant Biology, University of Oklahoma, Norman, OK		2013 – 2015
<u>Adjunct Faculty Member</u> , Dept. of Biological Sciences, Allegany College of Maryland, Cumberland, MD <i>General Biology (BIO 101)</i>	<i>Human Physiology & Anatomy (BIO 207/208)</i>	2012 – 2013
<u>Science Lab Tutor</u> , Student Success Center, Allegany College of Maryland, Cumberland, MD		2012 – 2013
<u>Graduate Teaching Assistant</u> , Dept. of Biological Sciences, Virginia Tech, Blacksburg, VA <i>General Biology (BIOL 1006)</i>		2009 – 2010
<u>Lab Assistant</u> , Dept. of Chemistry, Frostburg State University, Frostburg, MD		2006 – 2007
<u>Undergraduate Chemistry & Biology Tutor</u> , Frostburg State University, Frostburg, MD		2005

AWARDS

- Heimsch Award in Botany: June 2021
- 1st Place Poster Award, Biological Sciences – Microscopy & Microanalysis Conference (Portland, Oregon): August 2019
- Jerry W. McClure Award in Botany for Outstanding Graduate Student: May 2019
- \$1000 Student Scholar Award - Microscopy & Microanalysis Conference: August 2019
- 1st Place, MSA Micrograph Competition (Baltimore, Maryland): August 2018
- 1st Place Poster Award, Biological Sciences – Microscopy & Microanalysis Conference (Baltimore, Maryland): August 2018
- 1st Place Poster & McNair Award – OU Student Research and Creativity Day: March 2016
- President's Scholarship: 2003 – 2007

PUBLICATIONS

- 2021** **Pegg, T. J.**, Gladish, D. K., Baker, R. L. 2021. “Algae to angiosperms: Autofluorescence for rapid visualization of plant anatomy among diverse taxa” *Applications in Plant Sciences*. DOI: <https://doi.org/10.1002/aps3.11437>
- Pegg, T.J.**, Gladish, D.K., Baker, R. L. 2021. “Modification of Cell Wall Hemicelluloses during Fabaceae Root Aerenchyma Formation” *The Plant Cell. In Prep.*
- 2020** **Pegg, T. J.**, Edelman, R. R., Gladish, D. K. 2020. “Immunoprofiling of Cell Wall Carbohydrate Modifications during Flooding-Induced Aerenchyma Formation in Fabaceae Roots” *Frontiers in Plant Science* DOI: <https://doi.org/10.3389/fpls.2019.01805>
- 2018** **Pegg, T. J.**, Edelman, R. R., Gladish, D. K. 2018. “Progression of Cell Wall Matrix Alterations during Aerenchyma Formation in *Pisum sativum* Root Cortical Cells” *Proceedings of Microscopy & Microanalysis* DOI: <https://doi.org/10.1017/S1431927618007377>

CONFERENCES AND SEMINARS

- 2021** **Pegg, T. J.**, Gladish, D. K., Baker, R. L. *Autofluorescence for rapid visualization of plant anatomy among diverse taxa*. Botanical Society of America 2021 Conference – Virtual (Online Oral Presentation)
- 2020** **Pegg, T. J.**, Gladish, D. K., Baker, R. L. *Immunoprofiling of Cell Wall Carbohydrate Modifications during Aerenchyma Formation in Fabaceae Roots*. American Society of Plant Biologists Conference – Washington, DC (Online Oral Presentation)
- 2019** **Pegg, T. J.**, Edelman, R. R., Gladish, D. K. *Immunoprofiling of Cell Wall Carbohydrate Modifications during Aerenchyma Formation in Fabaceae Roots*. Microscopy & Microanalysis Conference – Portland, Oregon (Poster)
- 2018** **Pegg, T. J.**, Edelman, R. R., Gladish, D. K. *Progression of Cell Wall Matrix Alterations during Aerenchyma Formation in *Pisum sativum* Root Cortical Cells*. Microscopy & Microanalysis Conference – Baltimore, Maryland (Poster)
- 2015** **Pegg, T. J.**, Bartley, L. E. *Pectic Polysaccharide Cell Wall Compositional Alterations during Lateral Root Emergence in *Oryza sativa**. Oklahoma Academy of Science: 104th Annual Technical Meeting – Oklahoma City, Oklahoma (Oral Presentation)
- Pegg, T. J.**, Bartley, L. E. *Deformation of Root Cortex Cells during Rice Lateral Root Emergence: Examination of Cell Wall Remodeling During Development*. Graduate Student Research & Performance Day: 2015 – Norman, Oklahoma (Poster)

- 2014** Waters, C. L., **Pegg, T. J.**, Lin, F., Wan, S., Jentoft, R., Resasco, D., Lobban, L., Bartley, L. E., Mallinson, R. G. *Correlation of Switchgrass Biomass Composition to Thermochemical Biofuel Product Distribution*. 1st International Workshop on Engineered Crops – Des Moines, Iowa (Poster)
- 2009** **Pegg, T. J.**, Biser, P. S. *General ELISA Protocol for Incorporation into Undergraduate Lactate Dehydrogenase Purification Regimens*. 237th American Chemical Society National Meeting & Exposition – Salt Lake City, Utah (Poster)
- 2008** **Pegg, T. J.**, Smith, C., Shipe, R., Croner, A., Brosi, S. L. *Maple Syrup Production in Western Maryland: An Overview*. 49th Annual Society for Economic Botany Conference – Durham, North Carolina (Oral Presentation)

INVITED PRESENTATIONS

- 2021** **Pegg, T. J.** *Immunoprofiling of Cell Wall Carbohydrate Modifications during Flooding-Induced Aerenchyma Formation in Fabaceae Roots*. The Pennsylvania State University – State College, Pennsylvania (Oral Presentation)

PUBLIC OUTREACH

- 2024** Pegg, T. J. *Red River Regional Science and Engineering Fair*. Midwestern State University – Wichita Falls, Texas (Science Fair Judge)
- Pegg, T. J. *Texas Master Naturalist Program – Rolling Plains Chapter*. Midwestern State University – Wichita Falls, Texas (*Botany & Invasive Species* Seminar Presenter)
- 2023** Pegg, T. J. *Red River Regional Science and Engineering Fair*. Region 9 Education Service Center – Wichita Falls, Texas (Science Fair Judge)
- Pegg, T. J. *Texas Master Naturalist Program – Rolling Plains Chapter*. Midwestern State University – Wichita Falls, Texas (*Botany & Invasive Species* Seminar Presenter)
- Pegg, T.J. *Texas Future Farmers of America (FFA) Range Evaluation & Management CDE Competition*. Iowa Park Consolidated Independent School District – Iowa Park, Texas (Texas Native Grass ID Training Session)
- 2020** Pegg, T. J. *Clermont County Science Fair*. Clermont County Public Library – Owensville, Ohio (Science Fair Judge)
- Pegg, T. J. *Hamilton Rotary Science Fair*. Miami University – Hamilton, Ohio (Science Fair Judge)
- 2019** Pegg, T. J. *Clermont County Science Fair*. Clermont County Public Library – Owensville, Ohio (Science Fair Judge)
- 2018** Pegg, T. J. *Breakthrough Cincinnati Program*. University of Cincinnati – Cincinnati, Ohio (SEM and Light Microscopy Demonstration)

PROFESSIONAL AFFILIATIONS

- American Society of Plant Biologists, 2019 – Present
- Botanical Society of America, 2018 – Present
- Arbor Day Foundation, 2016 – Present
- Microscopy Society of the Ohio River Valley, 2016 - Present
- Microscopy Society of America, 2015 – Present
- Oklahoma Microscopy Society, 2014 – 2016
- American Chemical Society, 2009 – Present

- Gamma Theta Upsilon (International Geography Honors Society), 2008 – 2009
- Gamma Sigma Epsilon (National Chemistry Honors Society), 2008 – 2009
- Tri-Beta (National Biology Honors Society), 2006 – 2009
- Student Affiliates of the American Chemical Society, 2004 – 2009
- National Honors Society, 2003 – 2009