Curriculum Vitae

Kara J. (Riggs) Casy, PhD
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Education

University of Missouri, Columbia, MO
Ph.D. in Plant, Insect, and Microbial Sciences
Dissertation: "Maize Nodal Root Growth Under Water Deficits"

The Ohio State University, Columbus, OH
B.S. Honors in Agriculture
Honors Thesis: "Chemotaxis of *Phytophthora sojae* Zoospores to Soybean Roots is Altered by Isoflavone Silencing"

University of São Paulo, Escola Superior de Agricultura Luiz de Queiroz, São Paulo, Brazil
Study of Food Systems in Brazil

Teaching Experience

University of Missouri, Columbia, MO – August-December 2013
Lab Instructor – PLNT_S 4400/PLNT_S 7400 Plant Anatomy
Led lab section twice per week, assisted with the development of plant root curriculum, presented guest lecture, graded biweekly lab assignments and weekly quizzes

Publications and Presentations

Casy, K.J. and Sharp, R.E., "Maize Nodal Root Growth Under Water Deficit in a Divided-Chamber System," In Preparation.

Mertz, R.A., Greeley, L.A., Riggs, K.J., Niehues, N.D., McCubbin, T., Braun, D.M., Fritschi, F.B., Sharp, R.E., "Utilization of a split-root system for controlled, reproducible imposition of water deficit on maize seedlings," Poster presented at the Annual Maize Genetics Conference, St. Louis, MO, March 2017.

Riggs, K.J., "Maize Nodal Root Growth Under Water Deficits," Dissertation defended at the University of Missouri, Columbia, MO, December 2016, <https://mospace.umsystem.edu/xmlui/bitstream/handle/10355/62393/research.pdf>.

Riggs, K.J., Cafer, A.M., Sharp, R.E., "Root resilience: A hidden opportunity for water and food security," Poster presented at the Association for International Agriculture and Rural Development Annual Conference, Washington, D.C., June 2015.

Riggs, K.J., "Anti-Science: A Bipartisan Issue," Invited speaker at SASHAcon, Columbia, MO, March 2015.

Riggs, K.J., "Maize Nodal Root Growth Response to Water Deficits: Characterization in a Divided-Chamber Model System," Oral presentation at the American Society of Plant Biologists Midwestern Section, March 2015.

Cafer, A., Riggs, K., Mubichi, F., and Sandler, L., "A Socio-Cultural Perspective on Agricultural Development within a Sub-Saharan African Context: Paradigm Shifts and Interdisciplinary Engagement," Agrarian Frontiers: A Rural Studies Review, vol. 2, no. 1, 2014, pp. 35-47.

Riggs, K.J. "MOU between the University of Missouri and the Donald Danforth Plant Science Center: A Student Perspective" Invited speaker at the Memorandum of Understanding (MOU) signing between the University of Missouri and the Donald Danforth Plant Science Center, St. Louis, MO, November 2014.

Riggs, K.J., "A divided-chamber model system for the study of maize nodal roots," Oral presentation at the 2nd Plant Sciences and Bioengineering Colloquium, Columbia, MO, October 2014.

Thompson, H.J. and Riggs, K.J., "The Threat of Anti-Science in America," Invited speaker in the Common Ground Discussion Series hosted by Mizzou SASHA, Columbia, MO, September 2014.

Riggs, K.J., "Genes and the Environment," Invited panelist to discuss genetic modification of crops, technology, and safety, Columbia, MO, April 2014.

Riggs, K.J. and Sharp, R.E., "Maize nodal root growth response to water deficits: Characterization in a divided-chamber model system," Poster presented at the 8th Symposium of the International Society of Root Research, Dundee, UK, June 2012.

Riggs, K.J. and Graham, T.L., "Chemotaxis of Phytophthora to Soybean Is Altered by Isoflavone Silencing," Poster presented at the Richard J. and Martha D. Denman Undergraduate Research Forum. Columbus, OH, May 2010.

Riggs, K.J. and Graham, T.L., "Chemotaxis of *Phytophthora* Zoospores to Soybean Roots is Altered by RNAi Silencing of Isoflavone Biosynthesis," Poster presented at the College of Food, Agriculture, and Environmental Sciences Undergraduate Research Forum, Columbus, OH, April 2010.

Riggs, K.J. and Graham, T.L., "Chemotaxis of Phytophthora zoospores to soybean roots is altered by RNAi silencing of isoflavone biosynthesis," Poster presented at the American Phytopathological Society Annual Meeting, Minneapolis, MN, July 2008.