

CURRICULUM VITAE

NAME

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ADDRESS

Bioagricultural Sciences and Pest Management
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ACADEMIC POSITIONS

2017-2018 - Research Scientist (College of Agricultural Sciences)

2016-2017 - Research Scientist (College of Agricultural Sciences)

2015-2016 (College of Agricultural Sciences)

PUBLISHED WORKS

Refereed Journal Articles

Fernández-Escalada, M., Zulet-González, A., Gil-Monreal, M., Zabalza, A., Ravet, K., Gaines, T., Royuela, M. (2017). Effects of EPSPS copy number variation (CNV) and glyphosate application on the aromatic and branched chain amino acid synthesis pathways in *Amaranthus palmeri*. *Frontiers in Plant Science*, 8, 1970. <https://www.frontiersin.org/article/10.3389/fpls.2017.01970>, Peer Reviewed/Refereed

Patterson, E., Pettinga, D. J., Ravet, K., Neve, P., Gaines, T. (2017). Glyphosate resistance and EPSPS gene duplication: Convergent evolution in multiple plant species. *Journal of Heredity*., Peer Reviewed/Refereed

Hantzis, L., Kroh, G., Jahn, C. E., Cantrell, M., Peers, G., Pilon, M., Ravet, K. A program for iron economy during deficiency in *Arabidopsis* rosettes targets specific Fe proteins. *Plant Physiology*., Peer Reviewed/Refereed

Refereed Chapters in Books

Gaines, T., Tranel, P., Fleming, M. B., Patterson, E., Kuepper, A., Ravet, K., Giacomini, D., Gonzalez, S., Beffa, R. (2017). Applications of Genomics in Weed Science. In Mithila Jugulam (Ed.), *Biology, Physiology and Molecular Biology of Weeds*.: CRC Press., Peer Reviewed/Refereed

Non-Refereed Journal Articles

Shahbaz, M., Ravet, K., Peers, G., Pilon, M. (2015). Prioritization of copper for the use in photosynthetic electron transport in developing leaves of hybrid poplar. *Frontiers in plant science*, 6, 407., Not Peer Reviewed/Refereed

Tapken, W., Ravet, K., Shahbaz, M., Pilon, M. (2015). Regulation of Cu delivery to chloroplast proteins. *Plant signaling & behavior*, 10(7), e1046666., Not Peer Reviewed/Refereed

- Ravet, K., Pilon, M. (2013). Copper and iron homeostasis in plants: the challenges of oxidative stress. *Antioxidants & redox signaling*, 19(9), 919-32., Not Peer Reviewed/Refereed
- Tapken, W., Ravet, K., Pilon, M. (2012). Plastocyanin controls the stabilization of the thylakoid Cu-transporting P-type ATPase PAA2/HMA8 in response to low copper in Arabidopsis. *The Journal of biological chemistry*, 287(22), 18544-50., Not Peer Reviewed/Refereed
- Ravet, K., Danford, F. L., Dihle, A., Pittarello, M., Pilon, M. (2011). Spatiotemporal analysis of copper homeostasis in *Populus trichocarpa* reveals an integrated molecular remodeling for a preferential allocation of copper to plastocyanin in the chloroplasts of developing leaves. *Plant physiology*, 157(3), 1300-12., Not Peer Reviewed/Refereed
- Pilon, M., Ravet, K., Tapken, W. (2011). The biogenesis and physiological function of chloroplast superoxide dismutases. *Biochimica et biophysica acta*, 1807(8), 989-98., Not Peer Reviewed/Refereed
- Pilon, M., Cohu, C. M., Ravet, K., Abdel-Ghany, S. E., Gaymard, F. (2009). Essential transition metal homeostasis in plants. *Current opinion in plant biology*, 12(3), 347-57., Not Peer Reviewed/Refereed

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

- 2017, "A novel mechanism that confers reduced glyphosate sensitivity in *Kochia scoparia*", Global Herbicide Resistance Challenge.
- 2017, "Genome sequencing and assembly for *Kochia scoparia*", Global Herbicide Resistance Challenge.
- 2017, "International Weed Genomics Consortium": An initiative to coordinate and enable research in weed genomics", Global Herbicide Resistance Challenge.
- 2017, "The Draft Genome of *Kochia scoparia* : A Foundation for Studying Adaptive Evolution and Its Impacts on Genome Architecture", Plant and Animal Genome.
- 2017, "A Novel Mechanism that Confers Reduced Glyphosate Sensitivity in *Kochia scoparia*", Weed Science Society of America.
- 2017, "A Draft Genome for *Kochia scoparia*", Western Society of Weed Science.
- May 2017, "A novel mechanism that confers reduced glyphosate sensitivity in *Kochia scoparia*", Global Herbicide Resistance Challenge, (Presenter) Soni-Castillo, N., peer-reviewed/refereed.
- 2016, "Weed genomes as potential sources of new, adaptive agronomic traits: a summary of *Kochia scoparia* research in North America", 7th International Weed Science Congress.
- 2016, "Human selection on the genome of the invasive agronomic weed, *Kochia scoparia*", Genomics of Adaptation to Human Context.
- 2016, "A draft genome of *Kochia scoparia*", North Central Weed Science Society.
- 2016, "Developing genomics resources for *Kochia scoparia*", Weed Science Society of America.
- 2016, "Developing Simple Sequence Repeat (SSR) Markers for *Kochia Scoparia*", Western Society of Weed Science.

2016, "Palynology of Weedy Species", Western Society of Weed Science.

2016, "Understanding the Genetic Evolution of Glyphosate Resistance in Kochia scoparia Populations", Western Society of Weed Science.

2016, "Using Multiple Sequencing Platforms to Assemble the Kochia scoparia Genome", Western Society of Weed Science.
