

Curriculum Vitae

Aaron Gassmann
Professor
Department of Entomology
Iowa State University
2009 ATRB
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Education

State University of New York at Stony Brook.
Ph.D. Ecology and Evolution, August 2003.
Advisor: Douglas J. Futuyma (member of the U.S. National Academy of Sciences)
University of Saint Thomas. Saint Paul, Minnesota.
B.A. Biology with minors in Chemistry and Mathematics, May 1997.
Summa cum Laude, Aquinas Scholar (university honors) and Department of Biology Honors

Professional Appointments

Professor: July 2020 – Present
Department of Entomology
Iowa State University
Interim Associate Department Chair: May 2019 – Present
Department of Entomology
Department of Natural Resources Ecology and Management
Iowa State University
Associate Professor: July 2014 – June 2020
Department of Entomology
Iowa State University
Assistant Professor: January 2008 – June 2014
Department of Entomology
Iowa State University
Assistant Research Scientist: September 2007 – December 2007
Department of Entomology
University of Arizona
Postdoctoral Excellence in Research and Teaching Fellow: September 2004 – August 2007
Department of Entomology
University of Arizona
Supervisors: Bruce E. Tabashnik and Yves Carrière
Postdoctoral Scholar: July 2003 – August 2004
Department of Entomology
University of California, Riverside
Supervisor: J. Daniel Hare

Professional Honors and Awards

Gamma Sigma Delta, University Mission Award in Research.....	2017
Educational Project Award, North Central Branch, Entomological Society of America.....	2015
Early Achievement in Research Award, College of Agriculture and Life Sciences, Iowa State University.....	2012
DuPont Young Professor Award.....	2011
National Institutes of Health, Postdoctoral Excellence in Research and Teaching Fellowship, Center for Insect Science, University of Arizona.....	2004
Graduate Research Fellowship–Honorable Mention, National Science Foundation.....	1998
Barry M. Goldwater Scholarship, Barry M. Goldwater Scholarship and Excellence in Education Foundation.....	1996
Summer Research Scholarship, Council on Undergraduate Research.....	1996
Summer Research Scholarship, University of Saint Thomas.....	1995

Professional Organizations and Societies

American Association for the Advancement of Science.....	2013 - present
Gamma Sigma Delta.....	2013 - present
Sigma Xi.....	2011 - present
Society for Invertebrate Pathology.....	2009 - present
Entomological Society of America.....	2005 - present
Society for the Study of Evolution.....	1998 - present
Ecological Society of America.....	1998 - 2004

RESEARCH GRANTS

Federal Grants

9) Biotechnology Risk Assessment Grant, United States Department of Agriculture. 2018-2021. “Risk of resistance to Cry34/35Ab1 by western corn rootworm.” \$500,000

PI: Aaron J. Gassmann; Co-PI: Brad S. Coates

Project designated as USDA NIFA Center of Excellence

8) North Central Integrated Pest Management Grant, United States Department of Agriculture. 2017 - 2019. “A Community-Based Approach to Integrated Pest-Resistance Management Affecting Corn and Soybean: Case Studies for the North Central Region.” \$49,875

PI: Steven P. Bradbury;

Co-PI: Aaron J. Gassmann, John A. Miranowski, Michael D. Owen, and Alison E. Robertson

7) Industry-University Cooperative Research Center Grant, National Science Foundation, Center for Arthropod Management Technology. 2016-2018. “Understanding dispersal by western corn rootworm: effects of larval density on flight and effect of flight on female reproduction”

\$130,000. PI: Thomas W. Sappington; Co-PI: Aaron J. Gassmann

- 6) Biotechnology Risk Assessment Grant, United States Department of Agriculture. 2012-2016. “Risks from field-evolved resistance to Bt maize by western corn rootworm.” \$497,701
PI: Aaron J. Gassmann;
Co-PIs: Brad S. Coates, Lance J. Meinke, Nicholas J. Miller and Blair D. Siegfried
- 5) North Central Integrated Pest Management Grant, United States Department of Agriculture. 2011-2014. “Monitoring corn rootworm for the development of resistance to Bt corn.” \$99,661.
PI: Aaron J. Gassmann
- 4) Coordinated Agricultural Project Grant, United States Department of Agriculture. 2011-2016. “Climate change, mitigation, and adaptation in corn-based cropping systems.” \$20,000,000.
PI: Lois Wright Morton; Co-PIs: Aaron J. Gassmann and 39 other scientists
- 3) Biotechnology Risk Assessment Grant, United States Department of Agriculture. 2010-2013. “Assessing risk of European corn borer adaptation to transgenic maize.” \$383,257.
PI: Blair D. Siegfried; Co-PIs: Aaron J. Gassmann, Richard L. Hellmich and Brad S. Coates
- 2) Biotechnology Risk Assessment Grant, United States Department of Agriculture. 2009-2013. “Risk of western corn rootworm adaptation to transgenic corn.” \$400,000.
PI: Bruce E. Hibbard; Co-PIs: Aaron J. Gassmann and Thomas W. Sappington.
- 1) National Research Initiative, United States Department of Agriculture. 2007-2010. “Synergism between entomopathogenic nematodes and Bt crops.” \$206,000.
PI: Aaron J. Gassmann; Co-PIs: Bruce E. Tabashnik, S. Patricia Stock, and Yves Carrière.

Peer-Reviewed Publications

- 72) St. Clair, C. R., Clifton, E. H., Dunbar, M. W., Masloski, K. E., Paolino, A. R., Shrestha, R. B., **Gassmann, A. J.** *In Press*. Applying a selection experiment to test for fitness costs of Bt resistance in western corn rootworm and the effect of density on fitness costs. *Journal of Economic Entomology*
- 71) St. Clair, C. R., Head, G. P., **Gassmann, A. J.** *In Press*. Comparing populations of western corn rootworm in regions with and without a history of injury to Cry3 corn. *Journal of Economic Entomology*
- 70) St. Clair, C. R., Norris, E. J., Masloski, K. E., Coats, J. R., **Gassmann, A. J.** *In Press*. Evaluation of pyrethroids and organophosphates in insecticide mixtures for management of western corn rootworm larvae. *Pest Management Science*
- 69) **Gassmann, A. J.**, Shrestha, R. B., Kropf, A. L., St. Clair, C. R. and Brenizer, B. D. 2020. Field-evolved resistance by western corn rootworm to Cry34/35Ab1 and other *Bacillus thuringiensis* traits in transgenic maize. *Pest Management Science* 76:268-276

- 68) Yu, E. Y., **Gassmann, A. J.** and Sappington, T. W. 2019. Using flight mills to measure flight propensity and performance of western corn rootworm *Diabrotica virgifera virgifera* LeConte (Coleoptera: Chrysomelidae). *JoVE* (152), e59196, doi:10.3791/59196
- 67) Shrestha, R. B. and **Gassmann, A. J.** 2019. Field and laboratory studies of resistance to Bt corn by western corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 112:2324-2334
- 66) Yu, E. Y., **Gassmann, A. J.** and Sappington, T. W. 2019. Effects of larval density on dispersal and fecundity and western corn rootworm *Diabrotica virgifera virgifera* LeConte (Coleoptera: Chrysomelidae). *PLoS ONE* 14(3): e0212696. doi.org/10.1371/journal.pone.0212696
- 65) Shrestha, R. B., Dunbar, M. W., French, B. W. and **Gassmann, A. J.** 2018. Effects of field history on resistance to Bt maize by western corn rootworm, *Diabrotica virgifera virgifera* LeConte (Coleoptera: Chrysomelidae). *PLoS ONE* 13(7): e0200156. doi.org/10.1371/journal.pone.0200156
- 64) Shrestha, R. B., Jakka, S. R. K. and **Gassmann, A. J.** 2018. Response of Cry3Bb1-resistant western corn rootworm (Coleoptera: Chrysomelidae) to Bt maize and soil insecticide. *Journal of Applied Entomology* 142:937-946
- 63) Rault, L. C., Siegfried, B. D., **Gassmann, A. J.**, Wang, H., Brewer, G. J. and Miller, N. J. 2018. Investigation of Cry3Bb1 resistance and intoxication in western corn rootworm by RNA sequencing. *Journal of Applied Entomology* 142:921-936
- 62) Rovnyak, A. M., Burks, C. S., **Gassmann, A. J.** and Sappington, T. W. 2018. Interrelation of mating, flight, and fecundity in navel orangeworm (Lepidoptera: Pyralidae) females. *Entomologia Experimentalis et Applicata* 166:304-315
- 61) Clifton, E. H., Tylka, G. L., **Gassmann, A. J.** and Hodgson, E. W. 2018. Interaction of effects of host plant resistance and seed treatments on soybean aphid (*Aphis glycines* Matsumura), soybean cyst nematode (*Heterodera glycines* Ichinohe), and soybean yield. *Pest Management Science* 74:992-1000
- 60) Clifton, E. H., Jaronski, S. T., Coates, B. S., Hodgson, E. W. and **Gassmann, A. J.** 2018. Effects of endophytic entomopathogenic fungi on soybean aphid and identification of *Metarhizium* isolates from agricultural fields. *PLoS ONE* 13(3): e0194815 doi.org/10.1371/journal.pone.0194815
- 59) Paolino, A. R. and **Gassmann, A. J.** 2017. Assessment of inheritance and fitness costs associated with field-evolved resistance to Cry3Bb1 maize by western corn rootworm. *Toxins* 9(5):159; doi:10.3390/toxins9050159

- 58) Dunbar, M. W., **Gassmann A. J.** and O'Neal, M. E. 2017. Impacts of rye cover crop on beneficial arthropods. *Environmental Entomology* 46:284-290
- 57) Petzold-Maxwell, J. L., Siegfried, B. D., Hellmich, R. L., Abel, C. A., Coates, B. S., Spencer, T. A., Horikoshi, R. J. and **Gassmann, A. J.** 2017. Fitness costs associated with Cry1F resistance in the European corn borer. *Journal of Applied Entomology* 141:67-79
- 56) Schrader, P. M., Estes, R. E., Tinsley, N. A., **Gassmann, A. J.** and Gray, M. E. 2017. Evaluation of adult emergence and larval root injury for Cry3Bb1-resistant populations of the western corn rootworm. *Journal of Applied Entomology* 141:41-52
- 55) Gressel, J., **Gassmann, A. J.** and Owen, M. D. K. 2017. How well will stacked transgenic pest/herbicide resistances delay pests from evolving resistance? *Pest Management Science* 73:22-34
- 54) Dunbar, M. W., O'Neal, M. E. and **Gassmann A. J.** 2016. Effects of field history on corn root injury and adult abundance of northern and western corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 109:2096-2104
- 53) Dunbar, M. W., **Gassmann A. J.** and O'Neal, M. E. 2016. Impacts of rotation schemes on ground-dwelling beneficial arthropods. *Environmental Entomology* 45:1154-1160
- 52) **Gassmann, A. J.**, Shrestha, R. B., Jakka, S. R. K., Dunbar, M. W., Clifton, E. H., Paolino, A. R., Ingber, D. A., French, B. W., Masloski, K. E., Doudna, J. W. and St. Clair, C. R. 2016. Evidence of resistance to Cry34/35Ab1 corn by western corn rootworm (Coleoptera: Chrysomelidae): root injury in the field and larval survival in plant-based bioassays. *Journal of Economic Entomology* 109:1872-1880
- 51) Dunbar, M. W., O'Neal, M. E. and **Gassmann A. J.** 2016. Increased risk of insect injury to corn following rye cover crop. *Journal of Economic Entomology* 109:1691-1697
- 50) Shrestha, R. B., Jakka, S. R. K., French, B. W. and **Gassmann, A. J.** 2016. Field-based assessment of resistance to Bt corn by western corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 109:1399-1409
- 49) **Gassmann, A. J.** 2016. Resistance to Bt maize by western corn rootworm: insights from the laboratory and the field. *Current Opinion in Insect Science* 15:111-115
- 48) Jakka, S. R. K., Shrestha, R. B. and **Gassmann, A. J.** 2016. Broad-spectrum resistance to *Bacillus thuringiensis* toxins by western corn rootworm (*Diabrotica virgifera virgifera*). *Scientific Reports* 6, 27860; doi: 10.1038/srep27860
- 47) Andow, D. A., Pueppke, S. G., Schaafsma, A. W., **Gassmann, A. J.**, Sappington, T. W., Meinke, L. J., Mitchell, P. D., Hurley, T. M., Hellmich, R. L. and Porter, R. P. 2016. Early detection and mitigation of resistance to Bt maize by western corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 109: 1-12

- 46) Deitloff, J., Dunbar, M. W., Ingber, D. A., Hibbard, B. E. and **Gassmann, A. J.** 2016. Effects of refuges on the evolution of resistance to transgenic corn by western corn rootworm. *Pest Management Science* 72: 190-198
- 45) Ingber, D. A. and **Gassmann, A. J.** 2015. Inheritance and fitness costs of resistance to Cry3Bb1 corn by western corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 108: 2421-2432
- 44) Clifton, E. H., Jaronski, S. T., Hodgson, E. W. and **Gassmann, A. J.** 2015. Abundance of soil-borne entomopathogenic fungi in organic and conventional fields in the Midwestern USA with an emphasis on the effect of herbicides and fungicides on fungal persistence. *PLoS ONE* 10(7): e0133613. doi:10.1371/journal.pone.0133613
- 43) Frank, D. L., Kurtz, R. Tinsley, N. A., **Gassmann, A. J.**, Meinke, L. J., Moellenbeck, D., Gray, M. E., Bledsoe, L. W., Krupke, C. H., Estes, R. E., Weber, P. and Hibbard, B. E. 2015. Effect of seed mixtures and soil-insecticide on the emergence of western and northern corn rootworm (Coleoptera: Chrysomelidae) from transgenic Bt maize expressing the mCry3A plus eCry3.1Ab proteins. *Journal of Economic Entomology* 108:1260-1270
- 42) Hoffmann, A. M., French, B. W., Hellmich, R. L., Lauter, N. and **Gassmann, A. J.** 2015. Fitness costs of resistance to Cry3Bb1 maize by western corn rootworm. *Journal of Applied Entomology* 139:403-415
- 41) Wangila, D. S., **Gassmann, A. J.**, Petzold-Maxwell, J. L., French, B. W. and Meinke, L. J. 2015. Susceptibility of Nebraska western corn rootworm (Coleoptera: Chrysomelidae) populations to Bt corn events. *Journal of Economic Entomology* 108:742-751
- 40) Keweshan, R. S., Head, G. P. and **Gassmann, A. J.** 2015. Effects of pyramided Bt corn and blended refuges on western corn rootworm and northern corn rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology* 108:720-729
- 39) Kladvik, E. J., Helmers, M. J., Abendroth, L. J., Herzmann, D., Lal, R., Castellano, M. J., Mueller, D. S., Sawyer, J. E., Anex, R. P., Arritt, R. W., Basso, B., Bonta, J. V., Bowling, L. C., Cruse, R. M., Fausey, N. R., Frankenberger, J. R., Gassman, P. W., **Gassmann, A. J.**, Kling, C. L., Kravchenko, A., Lauer, J. G., Miguez, F. E., Nafziger, E. D., Nkongolo, N., O'Neal, M., Owens, L. B., Owens, P. R., Scharf, P., Shipitalo, M. J., Strock, J. S. and Villamil, M. B. 2014. Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. *Journal of Soil and Water Conservation* 69:532-542
- 38) Rausch, M. A., Kroemer, J. A., **Gassmann, A. J.** and Hellmich, R. L. 2014. On-plant selection and genetic analysis of European corn borer (*Ostrinia nubilalis*) behavioral traits: plant abandonment vs. plant establishment. *Environmental Entomology* 43:1254-1263

- 37) **Gassmann, A. J.**, Petzold-Maxwell, J. L., Clifton, E. H., Dunbar, M. W., Hoffmann, A. M., Ingber, D. A. and Keweshan, R. S. 2014. Field-evolved resistance by western corn rootworm to multiple *Bacillus thuringiensis* toxins in transgenic maize. *Proceedings of the National Academy of Sciences USA* 111:5141-5146
- 36) Petzold-Maxwell, J. L., Siegfried, B. D., Hellmich, R. L., Abel, C. A., Coates, B. S., Spencer, T. A. and **Gassmann, A. J.** 2014. Effect of maize lines on larval fitness costs of Cry1F resistance in the European corn borer. *Journal of Economic Entomology* 107:764-772
- 35) Hoffmann, A. M., French, B. W., Jaronski, S. T. and **Gassmann, A. J.** 2014. Effects of entomopathogens on mortality of western corn rootworm and fitness costs of resistance to Cry3Bb1 maize. *Journal of Economic Entomology* 107:352-360
- 34) Bruner, R. F., Hodgson, E. W. and **Gassmann, A. J.** 2013. Effects of *Rag1* on the preference and performance of soybean defoliators. *Journal of Economic Entomology* 106: 2577-2584
- 33) Cullen, E. M., Gray, M. E., **Gassmann, A. J.** and Hibbard, B. E. 2013. Resistance to Bt corn by western corn rootworm (Coleoptera: Chrysomelidae) in the U.S. Corn Belt. *Journal of Integrated Pest Management* 4(3): doi: dx.doi.org/10.1603/IPM13012
- 32) Rudeen, M. L., Jaronski, S. T., Petzold-Maxwell, J. L. and **Gassmann, A. J.** 2013a. Entomopathogenic fungi in cornfields and their potential to manage larval western corn rootworm *Diabrotica virgifera virgifera*. *Journal of Invertebrate Pathology* 114:329-332
- 31) Petzold-Maxwell, J. L., Alves, A. P., Estes, R. E., Gray, M. E., Meinke, L. J., Shields, E. J., Thompson, S. D., Tinsley, N. A. and **Gassmann, A. J.** 2013. Applying an integrated refuge to manage western corn rootworm (Coleoptera: Chrysomelidae): effects on survival, fitness and selection pressure. *Journal of Economic Entomology* 106:2195-2207
- 30) Petzold-Maxwell, J. L., Meinke, L. J., Gray, M. E., Estes, R. E. and **Gassmann, A. J.** 2013. Effect of Bt maize and soil insecticides on yield, injury, and rootworm survival: implications for resistance management. *Journal of Economic Entomology* 106:1941-1951
- 29) Petzold-Maxwell, J. L., Jaronski, S. T., Clifton, E. H., Dunbar, M. W., Jackson, M. A. and **Gassmann, A. J.** 2013. Interactions among Bt maize, entomopathogens and rootworm species (Coleoptera: Chrysomelidae) in the field: effects on survival, yield and root injury. *Journal of Economic Entomology* 106:622-632
- 28) Rudeen, M. L. and **Gassmann, A. J.** 2013. Effects of Cry34/35Ab1 corn on survival and development of western corn rootworm, *Diabrotica virgifera virgifera*. *Pest Management Science* 69:709-716
- 27) Dunbar, M. W. and **Gassmann, A. J.** 2013. Abundance and distribution of western and northern corn rootworm (*Diabrotica* spp.) and prevalence of rotation resistance in eastern Iowa. *Journal of Economic Entomology* 106:168-180

- 26) Petzold-Maxwell, J. L., Cibils-Stewart, X., French, B. W., and **Gassmann, A. J.** 2012. Adaptation by western corn rootworm (Coleoptera: Chrysomelidae) to Bt maize: inheritance, fitness costs and feeding preference. *Journal of Economic Entomology* 105:1407-1418
- 25) **Gassmann, A. J.** and Hutchison, W. D. 2012. Bt crops and insect pests: past successes, future challenges and opportunities. *GM Crops and Food* 3:139
- 24) **Gassmann, A. J.**, Petzold-Maxwell, J. L., Keweshan, R. S. and Dunbar, M. W. 2012. Western corn rootworm and Bt maize: challenges of pest resistance in the field. *GM Crops and Food* 3:235-244
- 23) **Gassmann, A. J.**, Hannon, E. R., Sisterson, M. S., Stock, S. P., Carrière, Y. and Tabashnik, B. E. 2012. Effects of entomopathogenic nematodes on the evolution of pink bollworm resistance to Bt toxin Cry1Ac. *Journal of Economic Entomology* 105:994-1005
- 22) **Gassmann, A. J.** 2012. Field-evolved resistance to Bt maize by western corn rootworm: predictions from the laboratory and effects in the field. *Journal of Invertebrate Pathology* 110:287-293
- 21) Dunbar, M. W. and **Gassmann, A. J.** 2012. Effect of soybean varieties on western corn rootworm survival and fecundity. *Journal of Economic Entomology* 105:625-631
- 20) Petzold-Maxwell, J. L., Jaronski, S. T. and **Gassmann, A. J.** 2012. Tritrophic interactions among Bt maize, an insect pest, and entomopathogens: effects on development and survival of western corn rootworm. *Annals of Applied Biology* 160:43-55
- 19) **Gassmann, A. J.**, Petzold-Maxwell, J. L., Keweshan, R. S. and Dunbar, M. W. 2011. Field-evolved resistance to Bt maize by western corn rootworm. *PLoS ONE* 6(7): e22629. doi:10.1371/journal.pone.0022629
- 18) Williams, J. L., Eilers-Kirk, C., Orth, R. G., **Gassmann, A. J.**, Head, G. P., Tabashnik, B. E. and Carrière, Y. 2011. Fitness cost of resistance to Bt cotton linked with increased gossypol content in pink bollworm larvae. *PLoS ONE* 6(6): e21863. doi:10.1371/journal.pone.0021863
- 17) Hannon, E. R., Sisterson, M. S., Stock, S. P., Carrière, Y., Tabashnik, B. E. and **Gassmann, A. J.** 2010. Effects of four nematode species on fitness costs of pink bollworm resistance to *Bacillus thuringiensis* toxin Cry1Ac. *Journal of Economic Entomology* 103:1821-1831
- 16) **Gassmann, A. J.**, Stock, S. P., Tabashnik, B. E. and Singer, M. S. 2010. Tritrophic effects of host plants on an herbivore-pathogen interaction. *Annals of the Entomological Society of America* 103:371-378
- 15) Lundgren, J. G., **Gassmann, A. J.**, Bernal, J. S., Duan, J. J. and Ruberson, J. R. 2009. Ecological compatibility of GM crops and biological control. *Crop Protection* 28:1017-1030

- 14) **Gassmann, A. J.**, Onstad, D. W. and Pittendrigh, B. R. 2009a. Evolutionary analysis of herbivorous insects in natural and agricultural environments. *Pest Management Science* 65:1174-1181
- 13) **Gassmann, A. J.**, Fabrick, J. A., Sisterson, M. S., Hannon, E. R., Stock, S. P., Carrière, Y. and Tabashnik, B. E. 2009b. Effects of pink bollworm resistance to Bt on phenoloxidase activity and susceptibility to entomopathogenic nematodes. *Journal of Economic Entomology* 102:1224-1232
- 12) **Gassmann, A. J.**, Carrière, Y. and Tabashnik, B. E. 2009c. Fitness costs of insect resistance to *Bacillus thuringiensis*. *Annual Review of Entomology* 54: 147-163
- 11) **Gassmann, A. J.**, Stock, S. P., Sisterson, M. S., Carrière, Y. and Tabashnik, B. E. 2008. Synergism between entomopathogenic nematodes and *Bacillus thuringiensis* crops: integrating biological control and resistance management. *Journal of Applied Ecology* 45: 957-966
- 10) Tabashnik, B. E., **Gassmann, A. J.**, Crowder, D. W. and Carrière, Y. 2008a. Field-evolved resistance to Bt toxins. *Nature Biotechnology* 26:1074-1076
- 9) Heuberger, S., Ellers-Kirk, C., Yafuso, C., **Gassmann, A. J.**, Tabashnik, B. E., Dennehy, T. J. and Carrière, Y. 2008. Effects of refuge contamination by transgenes on Bt resistance in pink bollworm (Lepidoptera: Gelechiidae). *Journal of Economic Entomology* 101:504-514
- 8) Tabashnik, B. E., **Gassmann, A. J.**, Crowder, D. W. and Carrière, Y. 2008b. Insect resistance to Bt crops: evidence versus theory. *Nature Biotechnology* 26:199-202
- 7) Tabashnik, B. E., Biggs, R. W., Fabrick, J. A., **Gassmann, A. J.**, Dennehy, T. J., Carrière Y. and Morin, S. 2006. High-level resistance to Bt toxin Cry1Ac and cadherin genotype in pink bollworm. *Journal of Economic Entomology* 99:2125-2131
- 6) **Gassmann, A. J.**, Stock, S. P., Carrière, Y. and Tabashnik, B. E. 2006. Effect of entomopathogenic nematodes on the fitness cost of resistance to Bt toxin Cry1Ac in pink bollworm (Lepidoptera: Gelechiidae). *Journal of Economic Entomology* 99:920-926
- 5) **Gassmann, A. J.**, Levy, A., Tran, T. and Futuyma, D. J. 2006. Adaptations of an insect to a novel host plant: a phylogenetic approach. *Functional Ecology* 20:478-485
- 4) **Gassmann, A. J.** and Futuyma, D. J. 2005. Consequences of herbivory for the fitness cost of herbicide resistance: photosynthetic variation in the context of plant-herbivore interactions. *Journal of Evolutionary Biology* 18:447-454
- 3) **Gassmann, A. J.** and Hare, J. D. 2005. Indirect cost of a defensive trait: variation in trichome type affects the natural enemies of herbivorous insects on *Datura wrightii*. *Oecologia* 144:62-71

2) **Gassmann, A. J.** 2005. Resistance to herbicide and susceptibility to herbivores: environmental variation in the magnitude of an ecological trade-off. *Oecologia* 145:575-585

1) **Gassmann, A. J.** 2004. Effect of photosynthetic efficiency and water availability on tolerance of leaf removal in *Amaranthus hybridus*. *Journal of Ecology* 92:882-892

Book Chapters

4) **Gassmann, A. J.** and *Clifton, E. H.* 2017. Current and potential applications of biopesticides to manage insect pests of maize. pp. 173 - 184 *In* Lacey, L. A. (ed). Microbial Control of Insect and Mite Pests: From Theory to Practice. 1st edition. Elsevier, London. (Peer-Reviewed Book Chapter)

3) Onstad, D. W. and **Gassmann, A. J.** 2014. Concepts and complexities of population genetics. pp. 149 - 184 *In* Onstad, D. W. (ed.). Insect Resistance Management: Biology, Economics and Predictions. 2nd edition. Elsevier, London.

2) Pittendrigh, B. R., Huesing, J., Walters, K., Olds, B., Steele, L. D., Sun, L., Gaffney, P. and **Gassmann, A. J.** 2014. Negative cross-resistance: history, present status, and emerging opportunities. pp. 373 - 402 *In* Onstad, D. W. (ed.). Insect Resistance Management: Biology, Economics and Predictions. 2nd edition. Elsevier, London.

1) Agunbiade, T., Steele, L., Coates, B. S., **Gassmann, A. J.**, Margam, V. M., Ba, M., Dabire, C., Baoua, I., Bello-Bravo, J., Seufferheld, F., Sun, W., Tamò, M., Pittendrigh, B. R. 2013. IPM-omics: from genomics to extension for integrated pest management of cowpea. pp. 231 - 248 *In* Boukar, O., Coulibaly, O., Fatokun, C., Lopez, K., Tamò, M. (eds.). Improving Livelihoods in the Cowpea Value Chain through Advancements in Science. Proceedings of the 5th World Cowpea Research Conference. International Institute for Tropical Agriculture, Ibadan, Nigeria

Outreach Publications

68) Gassmann, A. and Brenizer, B. 2020. 2019 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 306-19.

67) Gassmann, A. and Brenizer, B. 2020. Evaluation of soil-applied insecticide and Bt corn for management of corn rootworm in central Iowa. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.

66) Gassmann, A. and Brenizer, B. 2019. 2018 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 305-18.

65) Gassmann, A. and Brenizer, B. 2019. Evaluation of soil-applied insecticide and Bt corn for management of larval corn rootworm in central Iowa. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.

- 64) Gassmann A. and Weber, P. 2018. 2017 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 303-17.
- 63) Gassmann A. and Weber, P. 2018. Evaluating of various technologies for management of larval corn rootworm in central Iowa. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 62) Gassmann A. and Weber, P. 2018. Evaluating soil-applied insecticides for management of corn rootworm larvae in southeastern Iowa. Southeast Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 61) Gassmann A. and Weber, P. 2018. Evaluation of management approaches for corn rootworm larvae. Northeast Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 60) Gassmann A. and Weber, P. 2017. Evaluation of various technologies for management of larval corn rootworm. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 59) Gassmann A. and Weber, P. 2017. Field test for effects of cross-resistance on root injury to Bt corn by western corn rootworm. Northeast Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 58) Gassmann A. and Weber, P. 2017. Evaluation of Ampex insecticide for management of rootworm larvae. Southeast Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 57) Gassmann, A. and Weber, P. 2017. 2016 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 301-16.
- 56) Hodgson, E. and Gassmann, A. 2016. Guidelines for using sticky traps to assess corn rootworm activity. Integrated Crops Management News. Iowa State University.
- 55) Gassmann A. and Weber, P. 2016. Comparison among various tactics for management of corn rootworm larvae. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 54) Hodgson, E. and Gassmann, A. 2016. Approaches for managing corn rootworm in Iowa. Integrated Crops Management News. Iowa State University.
- 53) Gassmann, A. and Weber, P. 2016. 2015 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 299-15.
- 52) Hodgson, E., Clifton, E. Tylka, G., and Gassmann, A. 2016. Managing two soybean pests to optimize yield. Integrated Crops Management News. Iowa State University.
- 51) Gassmann, A. and Weber, P. 2016. Evaluation of Bt corn and soil-applied insecticides for management of corn rootworm larvae. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 50) Nineteen authors including Gassmann, A. 2015. Conceptual framework for an Iowa pest resistance management plan. Iowa State University, Integrated Pest Management Webpage.
- 49) Hodgson, E. and Gassmann, A. 2015. Corn rootworm management update. Integrated Crops Management News. Iowa State University.

- 48) Hodgson, E. W., Dunbar, M., O'Neal, M. and Gassmann, A. 2015. Managing cover crop pests for corn and soybean production. Proceedings of the Annual Iowa State University Integrated Crop Management Conference.
- 47) Gassmann A. and Weber, P. 2015. Evaluation of Bt corn and soil-applied insecticides for management of corn rootworm larvae. Central Iowa Research and Demonstration Farm Progress Report, Iowa State University.
- 46) Gassmann, A. and Weber, P. 2015. 2014 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 297-14.
- 45) Gassmann, A. and Weber, P. 2015. Evaluation of Bt corn and soil-applied insecticides for management of corn rootworm larvae. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 44) Gassmann, A. J. 2015. Resistance to Bt corn by western corn rootworm. Summary document provided at Iowa State University and Iowa Department of Agriculture and Land Stewardship stakeholder meeting to discuss resistance management in Iowa.
- 43) Hodgson, E. and Gassmann, A. 2014. Update on corn rootworm in Iowa. Integrated Crops Management News. Iowa State University.
- 42) Gassmann, A. and Weber, P. 2014. 2013 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 295-13.
- 41) Gassmann A. and Weber, P. 2014. Evaluation of technologies for management of corn rootworm larvae in northeastern Iowa. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 40) Gassmann A. and Weber, P. 2014. Evaluation of various technologies for management of larval corn rootworm. Southeast Research and Demonstration Farm Progress Report, Iowa State University.
- 39) Gassmann, A. J, and Hodgson, E. W. 2013. Western corn rootworm and Bt corn in Iowa. Proceedings of the Integrated Crop Management Conference. Iowa State University.
- 38) Hodgson, E., Schaefer, K. and Gassmann, A. 2013. Iowa farmer perception of corn rootworm resistance. Integrated Crops Management News. Iowa State University.
- 37) Hodgson, E. and Gassmann, A. 2013. Time to assess corn rootworm activity in Iowa. Integrated Crops Management News. Iowa State University.
- 36) Gassmann, A. and Weber, P. 2013. 2012 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 292-12.
- 35) Gassmann A. and Weber, P. 2013. Evaluation of corn rootworm management practices in northeastern Iowa. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 34) Gassmann A. and Weber, P. 2013. Evaluation of Bt corn and soil insecticides for management of corn rootworm. Southeast Research and Demonstration Farm Progress Report, Iowa State University.
- 33) Hodgson, E., and Gassmann, A. 2013. Corn rootworm management update and recommendations. Proceedings: Iowa State University Crop Advantage Series.
- 32) Hodgson, E. and Gassmann, A. 2012. Sustainable corn rootworm management in Iowa. Handout for Pesticide Applicator Training in Iowa.

- 31) Gassmann, A. and Hodgson, E. 2012. Managing western corn rootworm with Bt corn. Integrated Crops Management News. Iowa State University.
- 30) Hodgson, E. and Gassmann, A. 2012. Do you need to treat for adult corn rootworm this year? Integrated Crops Management News. Iowa State University.
- 29) Gassmann, A. and Weber, P. 2012. 2011 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 289-11.
- 28) Gassmann, A. and Weber, P. 2012. Evaluation of Bt and non-Bt corn with and without soil insecticides for control of corn rootworm. Southeast Research and Demonstration Farm Progress Report, Iowa State University.
- 27) Gassmann, A. and Weber, P. 2012. Evaluation of Bt and non-Bt corn with and without soil insecticides for control of corn rootworm. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 26) Hodgson, E. and Gassmann, A. 2011. First Iowa confirmation of resistance to Bt corn by western corn rootworm. Integrated Crops Management News. Iowa State University.
- 25) Gassmann, A. and Weber, P. 2011. 2010 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 286-10.
- 24) Gassmann, A. and Weber, P. 2011. Evaluation of a blended refuge for corn rootworm. Central Research and Demonstration Farm Progress Report, Iowa State University.
- 23) Gassmann, A. and Weber, P. 2011. Evaluation of Bt and non-Bt corn with and without soil insecticides for control of corn rootworm. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 22) Gassmann, A. and Weber, P. 2011. Evaluation of transgenic corn and non-Bt corn with and without soil insecticides for control of corn rootworm. Southeast Research and Demonstration Farm Progress Report, Iowa State University.
- 21) Gassmann, A. and Weber, P. 2011. Evaluation of SmartStax, Herculex XTRA and conventional corn for control of corn earworm. Northwest Research and Demonstration Farm Progress Report, Iowa State University.
- 20) Gassmann, A. and Weber, P. 2010. Evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 286-10.
- 19) Gassmann, A. and Hodgson, E. 2010. SmartStax: multi-trait corn offered by Dow and Monsanto. Integrated Crops Management News. Iowa State University.
- 18) Gassmann, A. and Hodgson, E. 2010. Refuge in a bag is here: explaining the simplified refuge. Integrated Crops Management News. Iowa State University.
- 17) Hodgson, E. and Gassmann, A. 2010. New corn trait deregulated in U.S. Integrated Crops Management News. Iowa State University.
- 16) Elmore, R., Gassmann, A. and Hodgson, E. 2010. Compliance and complacency: corn producers and Bt refuge. Integrated Crops Management News. Iowa State University.
- 15) Elmore, R., Gassmann, A. and Hodgson, E. 2010. Refuge rules must be obeyed. Wallaces Farmer February: 28.
- 14) Gassmann, A. and Weber, P. 2010. Effects of soil insecticides in combination with transgenic rootworm corn. Northeast Research and Demonstration Farm Progress Report, Iowa State University.

- 13) Keweshan, R. and Gassmann, A. J. 2010. Durability of corn expressing *Bacillus thuringiensis* insecticidal proteins in single and stacked events. Southwest Research and Demonstration Farm Progress Report, Iowa State University.
- 12) Gassmann, A. and Weber, P. 2010. Evaluation of SmartStax, VTTriple Pro, and Herculex XTRA. Northwest Research and Demonstration Farm Progress Report, Iowa State University.
- 11) Gassmann, A. and Weber, P. 2010. Evaluation of transgenic corn and soil insecticides for control of corn rootworm. Southeast Research and Demonstration Farm Progress Report, Iowa State University.
- 10) Elmore, R. and Gassmann, A. 2010. How many corn traits do you need? Integrated Crops Management News. Iowa State University.
- 9) Gassmann, A. and Weber, P. 2010. 2009 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 284-09.
- 8) Gassmann, A. J., Dunbar, M. J., and Weber, P. J. 2009. Integrated pest management for corn rootworm in Iowa. Proceedings of the Integrated Crop Management Conference. Iowa State University
- 7) Elmore R. E. and Gassmann, A. J. 2009. How many corn traits do you need? Wallaces Farmer November: 63.
- 6) Gassmann, A. and Weber, P. 2009. Management of corn rootworms in refuge corn. Southwest Research and Demonstration Farm Progress Report, Iowa State University.
- 5) Gassmann, A. and Weber, P. 2009. Evaluation of transgenic rootworm corn, with and without seed treatments or insecticides. Northwest Research and Demonstration Farm Progress Report, Iowa State University.
- 4) Gassmann, A. and Weber, P. 2009. Comparison of diverse management tools for control of corn rootworms. Northeast Research and Demonstration Farm Progress Report, Iowa State University.
- 3) Hibbard, B. E., Sappington, T. W., Gassmann, A. J., and Miller, N.J. 2009. Rootworm management with genetically modified corn: current status, potential for resistance, and a look toward the future. pp. 157-161. In the Proceedings of the 45th Annual Illinois Corn Breeders School, March 1-3, 2009, Champaign, Illinois.
- 2) Gassmann, A., and Weber, P. 2008. 2008 Iowa evaluation of insecticides and plant-incorporated protectants. Iowa State University, Department of Entomology. File number 282-08.
- 1) Tabashnik, B. E., Gassmann, A. J., Crowder, D. W. and Carrière, Y. 2008. Field-evolved insect resistance to Bt crops. Information for Biotechnology Systems News Report, August 2008: 1-5.

Invited Seminars (16 total)

- 16) North Carolina State University. Department of Entomology and Plant Pathology. 2019. “Western corn rootworm and Bt corn: a model system for understanding interactions between insect pests and Bt crops.”
- 15) Dow AgroSciences. 2016. “Interactions between western corn rootworm and Bt maize.”
- 14) DuPont. 2014. “Western corn rootworm and Bt maize: a model for understanding pest management with Bt crops that are not high dose.”

- 13) Ohio State University, Department of Entomology. 2014. “Biotechnology and agricultural sustainability: insights from interactions between western corn rootworm and Bt corn.”
- 12) Iowa State University, Department of Entomology. 2013. “Agricultural sustainability, ecology and evolution: insights from interactions between western corn rootworm and Bt corn.”
- 11) Monsanto Company. 2013. “Biotechnology, ecology and evolution: interactions of western corn rootworm with Bt corn and implications for management.”
- 10) Iowa State University, Department of Entomology. 2011. “Insect resistance management and integrated pest management for maize agroecosystems.”
- 9) University of Illinois, Department of Entomology. 2009. “Fitness costs of insect resistance to *Bacillus thuringiensis*.”
- 8) University of Nebraska—Lincoln, Department of Entomology. 2008. “Fitness costs of insect resistance to *Bacillus thuringiensis*.”
- 7) United States Department of Agriculture, North Central Agricultural Research Laboratory, and South Dakota State University, Department of Plant Sciences. 2008. “Ecological effects on fitness costs: enhancing resistance management with biological control.”
- 6) Iowa State University, Department of Entomology. 2007. “Plant-insect and tritrophic interactions in agroecosystems and native communities: insights into evolutionary ecology and applications to resistance management.”
- 5) University of Missouri, Division of Plant Sciences. 2006. “Evolutionary ecology, adaptation, and constraints: plant-insect and tritrophic interactions in agroecosystems and native communities.”
- 4) University of Nebraska—Lincoln, Department of Biology. 2006. “Evolutionary ecology, adaptation, and constraints: plant-herbivore and tritrophic interactions in agroecosystems and native communities.”
- 3) University of Arizona, Department of Entomology. 2004. “Context dependence in fitness trade-offs: the importance of incorporating ecological variation.”
- 2) University of California at Riverside, Department of Biology. 2004. “Resistance to herbicide and susceptibility to herbivores: ecological effects on the magnitude of trade-offs.”
- 1) Brookhaven National Laboratory, Department of Environmental Biology. 2001. “Effects of a photosynthetic mutation on resistance to herbivores and tolerance of damage in *Amaranthus hybridus* (Amaranthaceae).”

Symposia and Other Invited Presentations (43 total; presenting author is underlined)

- 43) Gassmann, A. J. Accepted for 2021. Pest adaptation in a transgenic landscape: western corn rootworm and Bt maize. International Congress of Entomology, Helsinki, Finland.
- 42) Gassmann, A. J. 2019. Bt resistance by western corn rootworm and the potential for IPM to delay resistance. Entomological Society of America. St. Louis, Missouri, USA.
Keynote Speaker for Symposium
- 41) Gassmann, A. J. 2019. Field-evolved resistance to Bt maize by western corn rootworm: patterns of resistance, potential causes and management approaches. Resistance '19. Rothamsted Research, Harpenden, England. **Keynote Speaker for Conference**
- 40) St. Clair, C., Head, G. P. and Gassmann, A. J. 2019. Western corn rootworm in agricultural landscapes in Iowa: testing for patterns in root injury to corn, rootworm abundance and Bt resistance. North Central Branch Meeting, Entomological Society of America. Cincinnati, Ohio, USA

- 39) Shrestha, R. B and Gassmann, A. J. 2019. Characterization of field populations: a key to sustainable management of western corn rootworm. North Central Branch Meeting, Entomological Society of America. Cincinnati, Ohio, USA
- 38) Gassmann, A. J. 2018. Perspectives from the midwestern United States on pest adaptation to Bt crops. Entomological Society of America. Vancouver, British Columbia, Canada
- 37) Coates, B. S., Gassmann, A. J., Guillemaud, T. and Robertson, H. M. 2018. Genomics of western corn rootworm response to insecticidal toxins. Entomological Society of America. Vancouver, British Columbia, Canada
- 36) Gassmann, A. J. 2018. Insect adaptation in a transgenic landscape. Dr. Douglas Futuyma Retirement Symposium. Stony Brook, New York, USA.
- 35) Gassmann, A. J. 2017. Resistance to Bt maize by western corn rootworm. 26th International Working Group on Ostrinia Conference, Beijing, China
- 34) Shrestha, R. and Gassmann, A. 2016. IPM vs. IRM: The experiences from western corn rootworm management. International Congress of Entomology. Orlando, Florida, USA
- 33) Hellmich, R., Gassmann, A., Omoto, C. and van den Berg, J. 2016. Role of Bt maize in global IPM. International Congress of Entomology. Orlando, Florida, USA
- 32) Miller, N., Bermond, G, Rault, L., Wang, H., Siegfried, B., Meinke, L., Baxter, B., Gassmann, A. J., and Hibbard, B. 2016. Evolution and mechanisms of rootworm resistance to Cry3Bb1 maize. International Congress of Entomology. Orlando, Florida, USA
- 31) Gassmann, A. J., Clifton, E. H., Doudna, J., Dunbar, M. W., Hoffmann, A., Ingber, D. A., Jakka, S. R. K., Keweshan, R. S., Masloski, K. E., Paolino, A., Petzold-Maxwell, J. L., Shrestha, R. and St. Clair, C. 2016. Field-evolved resistance to Bt maize by western corn rootworm. International Congress of Entomology. Orlando, Florida, USA
- 30) Hibbard, B., Ludwick, D., Meihls, L., Dietloff, J. and Gassmann, A. 2016. Selection of resistance in western corn rootworm to Cry3Bb1, mCry3a, eCry3.1Ab, and Cry34/35Ab1 transgenic corn: variations in traits in the laboratory and the field. International Congress of Entomology. Orlando, Florida, USA
- 29) Gassmann, A. J., Clifton, E. H., Doudna, J., Dunbar, M. W., Hoffmann, A. M., Ingber, D. A., Jakka, S., Keweshan, R. S., Masloksi, K. E., Paolino, A., Petzold-Maxwell, J. L., Shrestha, R. B. and St. Clair, C. 2015. Resistance and cross-resistance to Bt maize by populations of western corn rootworm from Iowa. Entomological Society of America. Minneapolis, Minnesota, USA
- 28) Gassmann, A. J. 2015. Movement of larval western corn rootworm and implications for management of resistance to Bt corn. International Plant Protection Congress. Berlin, Germany.
- 27) Gassmann, A. J. 2014. Detection of resistance to Bt corn by western corn rootworm: matching monitoring with pest biology. Entomological Society of America. Portland, Oregon, USA
- 26) Gassmann, A. J. 2014. Bt resistance and western corn rootworm: challenges and considerations for managing a pest with less than a high-dose Bt crop. European Congress of Entomology. York, England.

- 25) Gassmann, A. J., Clifton, E. H., Dunbar, M. W., Hoffmann, A. M., Ingber, D. A., Jakka, S., Petzold-Maxwell, J. L., Rudeen, M., and Shrestha, R. B. 2014. Bt resistance in western corn rootworm: a model for understanding pest management with Bt crops that are not high dose. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa, USA
- 24) Dunbar, M. W., Arbuckle, J., O'Neal, M. E. and Gassmann, A. J. 2014. Grower perception of western corn rootworm management in Iowa. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa, USA
- 23) Shrestha, R. B., Jakka, S., and Gassmann, A. J. 2014. Monitoring and characterization of Bt resistance in *Diabrotica virgifera virgifera*. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa, USA
- 22) Hibbard, B. E., Deitloff, J., Meihls, L. Gassmann, A. J. 2014. Laboratory selection of resistance to Cry3Bb1, mCry3A, eCry3.1Ab and Cry34/35Ab1 transgenic corn and an experimental evaluation of refuge techniques. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa, USA
- 21) Gassmann, A. J., Petzold-Maxwell, J. L., Clifton, E. H., Dunbar, M. W., Hoffmann, A. M. and Ingber, D. A. 2013. Resistance of western corn rootworm to Bt corn: data from the laboratory and field. Entomological Society of America. Austin, Texas, USA
- 20) Gassmann, A. J. 2013. Insect-crop interactions: the response of agricultural pests to transgenic agriculture. Gordon Conference on Plant-Herbivore Interactions. Ventura, California, USA
- 19) Gassmann, A. J. 2012. Pest adaptation to biotech crops: the case of resistance to Bt maize by western corn rootworm. Ohio Plant Biotechnology Consortium. Columbus, Ohio, USA
- 18) Gassmann, A. J., Petzold-Maxwell, J. L., Clifton, E. H., Dunbar, M. W., Hoffmann, A. M. Ingber, D. A. and Keweshan, R. S. 2012. Western corn rootworm and Bt maize: a case study illustrating the need for IPM and IRM. Entomological Society of America. Knoxville, Tennessee, USA
- 17) Gassmann, A. J., Petzold-Maxwell, J. L., Hoffmann, A. M. Carrière, Y. and Tabashnik, B. E. 2012. Fitness costs of insect resistance to *Bacillus thuringiensis*. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska, USA
- 16) Gassmann, A. J., Petzold-Maxwell, J. L., Keweshan, R. S., and Dunbar, M. W. 2012. Western corn rootworm and Bt corn in Iowa. 20th Biennial International Plant Resistance to Insects Workshop. Minneapolis, Minnesota, USA.
- 15) Gassmann, A. J., Petzold-Maxwell, J. L., Rudeen, M. L., and Clifton, E. H. 2012. Transgenic maize and entomopathogens: multiple mode of action pest control. 7th International Integrated Pest Management Symposium. Memphis, Tennessee, USA.
- 14) Gassmann, A. J., Petzold, J. L., Keweshan, R. S., and Dunbar, M. W. 2011. Response of western corn rootworm to planting of Bt maize in Iowa, USA. 24th International Working Group on Ostrinia Conference, Freiburg, Germany
- 13) Gassmann, A. J., Petzold, J. L., Keweshan, R. S., and Dunbar, M. W. 2011. Evaluating susceptibility to Bt corn for populations of western corn rootworm. Entomological Society of America. Reno, Nevada, USA
- 12) Gassmann, A. J., Petzold, J. L., Keweshan, R. S., and Dunbar, M. W. 2011. Evolutionary response of corn rootworm to current pest management practices. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota, USA

- 11) Gassmann, A. J. 2010. Fitness costs of resistance to Bt crops: potential applications of entomopathogens in resistance management. 19th Biennial International Plant Resistance to Insects Workshop. Charleston, South Carolina, USA.
- 10) Gassmann, A. J., Rynerson, M. L. and Dunbar, M. W. 2009. Ecological and evolutionary aspects of integrated pest management for corn rootworm. Entomological Society of America, Indianapolis, Indiana, USA.
- 9) Tabashnik, B., Crowder, D., Carrière, Y., Gassmann, A., Masson, L. Brava, A. Soberón, M. 2009. Bt resistance management mambos nos. 1 and 2. Society for Invertebrate Pathology. Park City, Utah, USA.
- 8) Tabashnik, B. E., Gassmann, A. J., Crowder, D. W., and Carrière, Y. 2008. Genetically modified organisms (GMOs): silver bullet? Entomological Society of America. Reno, Nevada, USA.
- 7) Gassmann, A. J., Carrière, Y., and Tabashnik, B. E. 2008. Fitness costs of insect resistance to *Bacillus thuringiensis*. Brazilian Congress of Entomology. Uberlândia, Brazil.
- 6) Gassmann, A. J., Stock, S. P., Sisterson, M. S., Carrière, Y., and Tabashnik, B. E. 2008. Potential for entomopathogens to delay resistance by pests to Bt crops. International Congress of Entomology. Durban, South Africa.
- 5) Gassmann, A. J., Stock, S. P., Sisterson, M. S., Carrière, Y., and Tabashnik, B. E. 2008. Potential application of entomopathogens in resistance management for Bt crops. North Central Branch Meeting, Entomological Society of America. Columbus, Ohio, USA.
- 4) Gassmann, A. J., Kadlicko, S. R., and Tollefson, J. J. 2008. Tolerance of leaf removal and root damage: mechanisms and agricultural applications. Pacific Branch Meeting, Entomological Society of America. Napa, California, USA.
- 3) Gassmann, A. J., Stock, S. P., Sisterson, M. S., Carrière, Y., and Tabashnik, B. E. 2007. Impact of entomopathogens on pest resistance to *Bacillus thuringiensis*. Entomological Society of America. San Diego, California, USA.
- 2) Carrière, Y., Gassmann A. J., and Tabashnik, B. E. 2007. Fitness costs and management of pest resistance to Bt crops. Entomological Society of America. San Diego, California, USA.
- 1) Gassmann, A. J. 2007. Potential for integrating entomopathogens with transgenic crops. International Organization for Biological Control. Merida, Mexico.

Presentations at Professional Meetings (129 total; presenting author is underlined)

- 129) McCulloch, J. and Gassmann, A. J. 2020. Density-dependent mortality of larval western corn rootworm on Bt and non-Bt corn. North Central Branch Meeting, Entomological Society of America. Virtual Meeting (talk)
- 128) Shrestha, R. B., Gassmann, A. J. 2019. Inheritance and fitness costs of field-evolved resistance to Cry3Bb1 corn by western corn rootworm. Entomological Society of America. St. Louis, Missouri (talk)
- 127) Kropf, A. and Gassmann, A. J. 2019. Quantifying the susceptibility of western corn rootworm larvae to entomopathogenic fungi. Entomological Society of America. St. Louis, Missouri (talk)
- 126) McCulloch, J. and Gassmann, A. J. 2019. Evaluating the use of a soil-applied insecticide as a pyramid with Bt corn for western corn rootworm management. Entomological Society of America. St. Louis, Missouri (talk)

- 125) Smith, E., Coates, B., and Gassmann, A. J. 2019. Evaluating resistance to Cry34/35Ab1 by western corn rootworm. Entomological Society of America. St. Louis, Missouri (poster)
- 124) Kropf, A. and Gassmann, A. J. 2018. Tritrophic interactions among corn, *Diabrotica virgifera virgifera* and entomopathogenic fungi. Entomological Society of America. Vancouver, British Columbia, Canada (poster)
- 123) St. Clair, C., Head, G. P., Gassmann, A. J. 2018. Western corn rootworm abundance, injury to maize, and resistance to Cry3Bb1 in the local landscape of previous problem fields. Entomological Society of America. Vancouver, British Columbia, Canada (talk)
- 122) Gassmann, A. J. 2018. Western corn rootworm resistance to Bt maize within agricultural landscapes. European Congress of Entomology. Naples, Italy (talk)
- 123) St. Clair, C., Head, G. P., Gassmann, A. J. 2018. Western corn rootworm abundance, injury to maize, and resistance to Cry3Bb1 in the local landscape of previous problem fields. European Congress of Entomology. Naples, Italy (poster)
- 121) St. Clair, C., Head, G. P., Gassmann, A. J. 2018. The effect of proximity to past problem fields on western corn rootworm abundance, injury to corn, and resistance to Cry3Bb1. North Central Branch Meeting, Entomological Society of America. Madison, Wisconsin (talk)
- 120) Shrestha, R. B., Gassmann, A. J. 2018. Field and laboratory studies of *Bt* resistance by western corn rootworm. North Central Branch Meeting, Entomological Society of America. Madison, Wisconsin (talk)
- 119) Yu, E., Gassmann, A. J., Sappington, T. W. 2018. Effects of larval density on dispersal and fecundity of *Diabrotica virgifera virgifera*. North Central Branch Meeting, Entomological Society of America. Madison, Wisconsin (talk)
- 118) Shrestha, R. B. and Gassmann, A. J. 2017. The opportunities for management of Bt-resistant western corn rootworm: an experience from Iowa cornfields. Entomological Society of America. Denver, Colorado (talk)
- 117) Gassmann, A. J. 2017. Inheritance and fitness costs of Bt resistance in western corn rootworm. Entomological Society of America. Denver, Colorado (talk)
- 116) Coates, B., Gassmann, A., Siegfried, B. 2017. Quantitative trait locus mapping of *Bacillus thuringiensis* (Bt) toxin resistance traits using high density genotyping-by-sequencing markers. Entomological Society of America. Denver, Colorado (talk)
- 115) St. Clair, C., Gassmann, A. J., and Head, G. P. 2017. Western corn rootworm abundance, injury to corn and Bt resistance in landscapes near previous problem fields. Entomological Society of America. Denver, Colorado (talk)
- 114) Yu, E., Gassmann, A. J., and Sappington, T. 2017. Understanding dispersal by *Diabrotica virgifera virgifera*: effects of larval density on flight and effects of flight on female reproduction. Entomological Society of America. Denver, Colorado (talk)
- 113) French, B., Gassmann, A. J. and Hibbard, B. E. 2017. Offspring survivorship of diapausing and non-diapausing western corn rootworm under field and laboratory conditions. Entomological Society of America. Denver, Colorado (poster)
- 112) Clifton, E. H., Jaronski, S. T., Coates, B. S., Hodgson, E. W., Gassmann, A. J. 2017. Effects of endophytic entomopathogenic fungi on soybean aphid, *Aphis glycines*. Annual Meeting of the Society for Invertebrate Pathology. San Diego, California (poster)
- 111) Shrestha, R. B. and Gassmann, A. J. 2016. Field-evolved resistance to multiple Bt traits by western corn rootworm: understanding the problem and developing solutions. North Central Branch Meeting, Entomological Society of America. Indianapolis, Indiana (talk)

- 110) St. Clair, C., Head, G. P., and Gassmann, A. J. 2017. Western corn rootworm abundance, injury to corn and Bt resistance in landscapes near previous problem fields. North Central Branch Meeting, Entomological Society of America. Indianapolis, Indiana (talk)
- 109) Masloski, K. E., Coats, J. R. and Gassmann, A. J. 2016. Testing western corn rootworm (Coleoptera: Chrysomelidae) for cross-resistance between Cry toxins and soil insecticides. International Congress of Entomology. Orlando, Florida (talk)
- 108) St. Clair, C., Head, G. P., and Gassmann, A. J. 2016. Abundance of western corn rootworm, injury to corn, and Bt resistance in local landscapes. International Congress of Entomology. Orlando, Florida (talk)
- 107) Clifton, E. H., Hodgson, E. W., Gassmann, A. J. 2016. Can entomopathogenic fungi induce plant defenses to suppress soybean aphid? International Congress of Entomology. Orlando, Florida (talk)
- 106) Gassmann, A. 2016. Resistance to Bt maize by western corn rootworm: inheritance, fitness costs and cross-resistance. International Congress on Invertebrate Pathology and Microbial Control and Annual Meeting of the Society for Invertebrate Pathology. Tours, France (talk)
- 105) Clifton, E., Jaronski, S., Hodgson, E., and Gassmann, A. 2016. Impacts of conventional and organic agriculture on soil-borne entomopathogenic fungi. International Congress on Invertebrate Pathology and Microbial Control and Annual Meeting of the Society for Invertebrate Pathology. Tours, France (talk)
- 104) Shrestha, R. B. and Gassmann, A. J. 2016. Inheritance and fitness costs associated with field-evolved Cry3Bb1 resistance by western corn rootworm. North Central Branch Meeting, Entomological Society of America. Cleveland, Ohio (talk)
- 103) Masloski, K. E. and Coats, J. R. and Gassmann, A. J. 2016. Testing western corn rootworm (Coleoptera: Chrysomelidae) for cross-resistance between Cry toxins and soil insecticides. North Central Branch Meeting, Entomological Society of America. Cleveland, Ohio (talk)
- 102) Shrestha, R. B., Dunbar, M. W. and Gassmann, A. J. 2015. Comparison of options for management of Cry3Bb1-resistant western corn rootworm. Entomological Society of America. Minneapolis, Minnesota (talk)
- 101) Dunbar, M. W., Varenhorst, A. J., Hodgson, E. W., O'Neal, M. E. and Gassmann, A. J. 2015. True armyworm, rye cover, and no-till: An unfortunate combination in 2015. Entomological Society of America. Minneapolis, Minnesota (poster)
- 100) Rault, L., Wang, H., Gassmann, A. J., Siegfried, B. D. and Miller, N. J. 2015. Resistance to Cry3Bb1 in the western corn rootworm, *Diabrotica virgifera virgifera*: RNA-seq and differential expression. Entomological Society of America. Minneapolis, Minnesota (talk)
- 99) Paolino, A. and Gassmann, A. J. 2015. Inheritance and fitness costs associated with field-derived resistance to Cry3Bb1 corn in western corn rootworm, *Diabrotica virgifera virgifera* LeConte. Entomological Society of America. Minneapolis, Minnesota (talk)
- 98) St. Clair, C., Head, G. P. and Gassmann, A. J. 2015. Assessing western corn rootworm resistance to Bt corn in the landscape. Entomological Society of America. Minneapolis, Minnesota (talk)
- 97) Masloski, K. E. and Coats, J. R. and Gassmann, A. J. 2015. Mortality from soil insecticides among Bt-resistant populations of western corn rootworm (Coleoptera: Chrysomelidae). Entomological Society of America. Minneapolis, Minnesota (talk)

- 96) Clifton, E. H., Hodgson, E. W., Tylka, G. and Gassmann, A. J. 2015. Managing two soybean pests to optimize yield. Entomological Society of America. Minneapolis, Minnesota (talk)
- 95) Dunbar, M. W., Shrestha, R. B., O'Neal, M. E. and Gassmann A. J. 2015. The effects of crop rotation on western corn rootworm adult abundance, root injury, and Bt resistance. Entomological Society of America. Minneapolis, Minnesota (talk)
- 94) Paolino, A. R. and Gassmann, A. J. 2015. Inheritance and fitness costs of resistance to Cry3Bb1 corn by western corn rootworm (*Diabrotica virgifera virgifera* LeConte). North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (talk)
- 93) Dunbar, M. W., O'Neal, M. W. and Gassmann, A. J. 2015. The effects of crop rotation and Bt corn on root injury and adult abundance of western corn rootworm. North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (talk)
- 92) Doudna, J. and Gassmann, A. J. 2015. Local and statewide patterns of Bt resistance evolution in western corn rootworm: The effects of insect and human behavior. North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (talk)
- 91) Shrestha, R. B., Dunbar, M. W. and Gassmann, A. J. 2015. Can cropping history influence the risk of western corn rootworm developing Bt resistance? North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (talk)
- 90) Jakka, S., Shrestha, R. B., Dunbar, M. W. and Gassmann, A. J. 2015. Evaluation of management options for Bt-resistant western corn rootworm. North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (talk)
- 89) Clifton, E. H., Hodgson, E. W., Tylka, G. L. and Gassmann, A. J. 2015. Managing two soybean pests to optimize yield. North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (poster)
- 88) Masloski, K. E., Coats, J. R. and Gassmann, A. J. 2015. Geographic variation in mortality from insecticides among Iowa populations of western corn rootworm (Coleoptera: Chrysomelidae). North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (poster)
- 87) St. Clair, C., Head, G. P. and Gassmann, A. J. 2015. Assessing western corn rootworm resistance to Bt corn in the landscape. North Central Branch Meeting, Entomological Society of America. Manhattan, Kansas (poster)
- 86) Jakka, S., Shrestha, R. and Gassmann, A. 2014. Status of western corn rootworm resistance to Bt toxins Cry3Bb1 and Cry34/35Ab1. Entomological Society of America. Portland, Oregon (talk)
- 85) Shrestha, R., Jakka, S. and Gassmann, A. 2014. Development and survivorship of Bt-resistant western corn rootworm in Iowa cornfields. Entomological Society of America. Portland, Oregon (talk)
- 84) Hibbard, B., Deitloff, J., Meihls, L., and Gassmann, A. 2014. Refuge techniques for low-dose rootworm transgenic events: A futile exercise? Entomological Society of America. Portland, Oregon (talk)
- 83) Lasley, P., Arbuckle, J., Gassmann, A., Hodgson, E. W., O'Neal, M. E. and Wintersteen, W. 2014. Pest management concerns among Iowa row-crop farmers. Entomological Society of America. Portland, Oregon (talk)

- 82) Dunbar, M. W., O’Neal, M. E. and Gassmann, A. 2014. Effect of crop management on root injury and adult abundance of western corn rootworm. Entomological Society of America. Portland, Oregon (talk)
- 81) Clifton, E. H., Hodgson, E. W., Tylka, G. L., and Gassmann, A. 2014. Determining pest and pesticide interactions as a means to optimize soybean yield. Entomological Society of America. Portland, Oregon (talk)
- 80) Paolino, A. and Gassmann, A. 2014. Inheritance and fitness costs associated with resistance to Bt corn by western corn rootworm (*Diabrotica virgifera virgifera* LeConte). Entomological Society of America. Portland, Oregon (poster)
- 79) Doudna, J. and Gassmann, A. 2014. The scale of evolution: Landscape-level analysis of Cry3Bb1 resistance in western corn rootworm. Entomological Society of America. Portland, Oregon (poster)
- 78) Guilemaud, T., Deleury, E., Coates, B., Gassmann, A., French, W., Miller, N., Siegfried, B. and Sappington, T. 2014. Western corn rootworm transcriptome project. International Working Group on Ostrinia and other Maize Pests. Chicago. Illinois (talk)
- 77) Maxwell, J., Jaronski, S. T., Clifton, E. H., Dunbar, M. W., Jackson, M. A. and Gassmann, A. J. 2014. Interactions among Bt maize, entomopathogens and the western corn rootworm. International Working Group on Ostrinia and other Maize Pests. Chicago. Illinois (talk)
- 76) Gassmann, A. J., Clifton, E. H., Dunbar, M. W., Hoffmann, A. M., Ingber, D. A., Jakka, S., Petzold-Maxwell, J. L., Rudeen, M., and Shrestha, R. B. 2014. Bt resistance in western corn rootworm: A model for understanding pest management with Bt crops that are not high dose. International Working Group on Ostrinia and other Maize Pests. Chicago. Illinois (talk)
- 75) Rault, L., Miller, N., Wang, H., Gassmann, A. and Siegfried, B. 2014. Expression profile by next-generation sequencing of western corn rootworm (*Diabrotica virgifera virgifera*) neonates exposed to Bt toxin Cry3Bb1. International Working Group on Ostrinia and other Maize Pests. Chicago. Illinois (poster)
- 74) Paolino, A. R., and Gassmann, A. J. 2014. Measuring fitness costs and inheritance of resistance to Bt corn by western corn rootworm. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa (poster)
- 73) Dunbar, M. W., O’Neal, M. E., and Gassmann, A. J. 2014. Effect of crop management on root injury, adult abundance and susceptibility to Bt toxins in western corn rootworm. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa (talk)
- 72) Clifton, E. H., Hodgson, E. W., Tylka, G. L. and Gassmann, A. J. 2014. Determining pest and pesticide interactions as a means to optimize yield. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa (talk)
- 71) Ingber, D. A., Head, G. P. and Gassmann, A. J. 2014. Inheritance and fitness costs of Bt resistance for a field-derived strain of western corn rootworm, *Diabrotica virgifera virgifera* LeConte. North Central Branch Meeting, Entomological Society of America. Des Moines, Iowa (talk)
- 70) Gassmann, A. J. 2013 Fitness costs and the evolution of insect resistance to *Bacillus thuringiensis* crops. National Institute for Mathematics and Biological Synthesis Workshop: Insect Pest Resistance Evolution. Knoxville, Tennessee (talk)

- 69) Ingber, D. A., Head, G. P. and Gassmann, A. J. 2013. Inheritance and fitness costs of Bt resistance for a field-derived strain of western corn rootworm, *Diabrotica virgifera virgifera* LeConte. Entomological Society of America. Austin, Texas (talk)
- 68) Clifton, E. H., Hodgson, E. W., Tylka, G. L. and Gassmann, A. J. 2013. Determining pest and pesticide interactions as a means to optimize yield. Entomological Society of America. Austin, Texas (poster)
- 67) Hodgson, E. W., Gassmann, A. J., and Schaefer, K. 2013. Bt-resistant western corn rootworm: 2012 survey results of farmer perceptions, experiences and actions. Entomological Society of America. Austin, Texas (talk)
- 66) Shrestha, R. B. and Gassmann, A. J. 2013. Problems and prospects for management of western corn rootworm. Entomological Society of America. Austin, Texas (talk)
- 65) Ingber, D. A., Head, G. P. and Gassmann, A. J. 2013. Inheritance and fitness costs of Bt resistance for a field-derived strain of western corn rootworm (*Diabrotica virgifera virgifera* LeConte). North Central Branch Meeting, Entomological Society of America. Rapids City, South Dakota (talk)
- 64) Clifton, E. H., Jaronski, S. T., Hodgson, E. W., and Gassmann, A. J. 2013. Effect of conventional and organic agriculture on soil-borne entomopathogenic fungi. North Central Branch Meeting, Entomological Society of America. Rapids City, South Dakota (talk)
- 63) Dunbar, M. W., Gassmann, A. J., and O'Neal, M. E. 2013. Impacts of rye cover crops on ground-dwelling beneficial arthropods. North Central Branch Meeting, Entomological Society of America. Rapids City, South Dakota (talk)
- 62) Petzold-Maxwell, J., Hellmich, R., Siegfried, B. and Gassmann, A. 2012. Fitness costs associated with Bt resistance in the European corn borer (*Ostrinia nubilalis*). Entomological Society of America. Knoxville, Tennessee (talk)
- 61) Ingber, D. A., Head, G. P. and Gassmann, A. J. 2012. Inheritance and fitness costs for a field derived strain of western corn rootworm (*Diabrotica virgifera virgifera* LeConte). Entomological Society of America. Knoxville, Tennessee (poster)
- 60) Hoffmann, A. M., French, B. W., and Gassmann, A. J. 2012. Effects of entomopathogens on fitness costs of Bt resistance in western corn rootworm. Entomological Society of America. Knoxville, Tennessee (talk)
- 59) Dunbar, M. W., Gassmann, A. J., and O'Neal, M. E. 2012. Effects of rye cover crops on arthropod communities. Entomological Society of America. Knoxville, Tennessee (talk)
- 58) Dojutrek, C. R. and Gassmann, A. J. 2012. Western corn rootworm resistance to Bt corn: laboratory assays and field evaluations. Entomological Society of America. Knoxville, Tennessee (poster)
- 57) Clifton, E. H., Hodgson, E. W., Jaronski, S. T. and Gassmann, A. J. 2012. Impacts of conventional versus organic agriculture on entomopathogenic fungi. Entomological Society of America. Knoxville, Tennessee (talk)
- 56) Gassmann, A. J., Petzold-Maxwell, J. L., Clifton, E. H., Dunbar, M. W., Hoffmann, A. H., Ingber, D. A., and Keweshan, R. S. 2012. Resistance of western corn rootworm to Bt maize. Society for Invertebrate Pathology. Buenos Aires, Argentina (talk)
- 55) Ingber, D. A., Head, G. P. and Gassmann, A. J. 2012. Inheritance and fitness costs of Bt resistance for a field-derived strain of western corn rootworm (*Diabrotica virgifera virgifera* LeConte). North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (poster)

- 54) Petzold-Maxwell, J. L., Dunbar, M. W., Clifton, E. H., Jaronski, S. T., Jackson, M. A. and Gassmann, A. J. 2012. Interactions among Bt maize, entomopathogens and rootworm species in the field: effects on survival, yield and root injury. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 53) Bruner, R. F., Gassmann, A. J., Hodgson, E. W. and O'Neal, M. E. 2012. Effects of *Rag1* soybeans on the development and performance of noctuid larvae. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 52) Hoffmann, A. M and Gassmann, A. J. 2012. Fitness costs of Bt resistance in western corn rootworm. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 51) Keweshan, R. S., Head, G. P. and Gassmann, A. J. 2012. Evaluating interactions of western corn rootworm and Bt corn. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 50) Clifton, E. H., Hodgson, E. W., Jaronski, S. and Gassmann, A. J. 2012. Effects of cropping systems on entomopathogenic fungi. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 49) Dunbar, M. W., Gassmann, A. J. and O'Neal, M. E. 2012. Effects of cover crop and extended rotation on insect taxa and plant disease pressure. North Central Branch Meeting, Entomological Society of America. Lincoln, Nebraska (talk)
- 48) Bruner, R. F., Gassmann, A. J., Hodgson, E. W. and O'Neal, M. E. 2011. Evaluating seasonal exposure to soybean aphid (Hemiptera: Aphididae) and yield for *Rag1* soybeans. Entomological Society of America, Reno, Nevada (poster)
- 47) Dunbar, M. W., Gassmann, A. J. and O'Neal, M. E. 2011. Effects of cover crops and extended rotation on insect communities. Entomological Society of America, Reno, Nevada (poster)
- 46) Petzold, J. L., Cibils-Stewart, X., Jaronski, S. T., French, B. W. and Gassmann, A. J. 2011. Adaptation by western corn rootworm to Bt corn: characterizing inheritance, fitness costs, and feeding preference. Entomological Society of America, Reno, Nevada (talk)
- 45) Williams, J. L., Eilers-Kirk, C., Orth, R. G., Gassmann, A. J., Head, G., Tabashnik, B. and Carrière, Y. 2011. Fitness cost of resistance to Bt cotton linked with increased gossypol content in pink bollworm larvae. Entomological Society of America, Reno, Nevada (talk)
- 44) Clifton, E. H., Hodgson, E. W., Jaronski, S. and Gassmann, A. J. 2011. Effects of organic and conventional agriculture on entomopathogenic fungi. Entomological Society of America, Reno, Nevada (Poster)
- 43) Dunbar, M. W. and Gassmann, A. J. 2011. Comparing block and blended refuge strategies for managing resistance of western corn rootworm to Bt corn. Entomological Society of America, Reno, Nevada (talk)
- 42) Hoffmann, A. M., French, B. W. and Gassmann, A. J. 2011. Fitness costs of Bt resistance in western corn rootworm. Entomological Society of America, Reno, Nevada (talk)
- 41) Keweshan, R. S., Head, G. P. and Gassmann, A. J. 2011. Evaluating susceptibility of the western corn rootworm (*Diabrotica virgifera virgifera* LeConte) to Bt corn through application of an F1 screen. Entomological Society of America, Reno, Nevada (talk)
- 40) Bruner, R. F., Gassmann, A. J., Hodgson, E. W. and O'Neal, M. E. 2011. Preference and performance of two lepidopteran species on *Rag1* cultivars. Entomological Society of America, Reno, Nevada (talk)

- 39) Gassmann, A. J., Petzold, J. L., and Rudeen, M. L. 2011. Tritrophic interactions among maize, western corn rootworm and soil entomopathogens. 24th International Working Group on Ostrinia Conference, Freiburg, Germany (poster)
- 38) Guillemaud, T., Deleury, E., Coates, B., Gassmann, A., French, B. W., Miller, N., Siegfried, B. and Sappington, T. 2011. WCR transcriptome project. 24th International Working Group on Ostrinia Conference, Freiburg, Germany (talk)
- 37) Thompson, S., Chen, H., Alves, A., Gassmann, A. and B. Siegfried. 2011. Characterization of Cry34/35 resistance of a laboratory *Diabrotica virgifera virgifera* colony. 24th International Working Group on Ostrinia Conference, Freiburg, Germany (talk)
- 36) Gassmann, A. J., Petzold, J. L., and Rudeen, M. L. 2011. Tritrophic interactions among maize, western corn rootworm and soil entomopathogens. 14th Symposium on Insect-Plant Interactions, Wageningen, Netherlands. (poster)
- 35) Dunbar, M. W. and Gassmann, A. J. 2011. Abundance and distribution for two species of corn rootworm (*Diabrotica* spp.) and prevalence of rotation resistance in eastern Iowa. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (talk)
- 34) Bruner, R. F., O'Neal, M. E., Gassmann, A. J., and Hodgson, E. W. 2011. Evaluating *Rag1* soybeans for effects on preference and performance of herbivorous insects. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (talk)
- 33) Keweshan, R. S., Head, G. P., and Gassmann, A. J. 2011. Evaluating response of northern and western corn rootworm to transgenic Bt corn. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (talk)
- 32) Petzold, J. L. and Gassmann, A. J. 2011. Effects of Bt maize and entomopathogens on survival of western corn rootworm. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (poster)
- 31) Hoffmann, A. M. and Gassmann, A. J. 2011. Fitness cost of resistance to Bt in western corn rootworm. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (poster)
- 30) Clifton, E. H., Gassmann, A. J. Hodgson, E. H. and Jaronski, S. T. 2011. Comparison of entomopathogenic fungi in organic and conventional farms. North Central Branch Meeting, Entomological Society of America. Minneapolis, Minnesota. (poster)
- 29) Bruner, R. F., Gassmann, A. J., Hodgson, E. W., and O'Neal, M. E. 2010. Extension and research to facilitate the incorporation of soybean aphid resistant varieties into Iowa crop production. Entomological Society of America, San Diego, California. (poster)
- 28) Dunbar, M. W. and Gassmann, A. J. 2010. Distribution of rotation resistance in eastern Iowa and effects of soybean varieties on survival and fecundity of *Diabrotica virgifera virgifera* LeConte. Entomological Society of America, San Diego, California. (talk)
- 27) Dunbar, M. W. and Gassmann, A. J. 2010. Assessing risk to rotated corn in Iowa and effects of soybean varieties on *Diabrotica virgifera virgifera* LeConte. Entomological Society of America, San Diego, California. (poster)
- 26) Gassmann, A. J., Petzold, J. L., Keweshan, R. S., and Dunbar, M. W. 2010. Screening field populations of western corn rootworm for susceptibility to Bt corn. Entomological Society of America, San Diego, California. (talk)

- 25) Hannon, E. R., Sisterson, M. S., Stock, S. P., Carrière, Y., Tabashnik, B. E., and Gassmann, A. J. 2010. Effects of four nematode species on fitness costs of pink bollworm resistance to *Bacillus thuringiensis* toxin Cry1Ac. Entomological Society of America, San Diego, California. (talk)
- 24) Keweshan, R. S., Head, G. P., Gassmann, A. J. 2010. Evaluating response of western corn rootworm to transgenic Bt corn: single event, stacked event, and blended refuge. Entomological Society of America, San Diego, California. (talk)
- 23) Petzold, J. L. and Gassmann, A. J. 2010. Effects of Bt corn and entomopathogens on survival of western corn rootworm. Entomological Society of America, San Diego, California. (talk)
- 22) Rynerson, M. L. and Gassmann, A. J. 2010. Effects of Bt and non-Bt corn on survival and development of larval western corn rootworm *Diabrotica virgifera virgifera* LeConte (Coleoptera: Chrysomelidae). Entomological Society of America, San Diego, California. (talk)
- 21) Gassmann, A. J., Sisterson, M. S., Fabrick, J. A., Hannon, E. R., Carrière, Y., Stock, S. P., Tabashnik, B. E. 2010. Exploiting fitness costs to delay insect resistance to Bt crops. Gordon Research Conference on Plant-Herbivore Interactions. Galveston, Texas. (poster)
- 20) Dunbar, M. W. and Gassmann, A. J. 2010. “Effect of soybean varieties on western corn rootworm survival and fecundity.” North Central Branch Meeting, Entomological Society of America. Lexington, Kentucky. (talk)
- 19) Rynerson, M. L. and Gassmann, A. J. 2009. “Survey of entomopathogens attacking larval corn rootworm *Diabrotica virgifera virgifera* in Iowa cornfields.” Entomological Society of America, Indianapolis, Indiana. (talk)
- 18) Dunbar, M. W. and Gassmann, A. J. 2009. “Assessing risk to rotated corn in Iowa for western corn rootworms.” Entomological Society of America, Indianapolis, Indiana. (talk)
- 17) Rynerson, M. L. and Gassmann, A. J. 2009. “Survey of entomopathogens attacking larval corn rootworm *Diabrotica virgifera virgifera* in Iowa cornfields.” Society for Invertebrate Pathology. Park City, Utah. (poster)
- 16) Gassmann, A. J., Stock, S. P., Tabashnik, B. E. and Singer, M. S. 2009. “Tritrophic trade-offs affecting growth and resistance to pathogens for a polyphagous herbivore.” Society for Invertebrate Pathology. Park City, Utah. (talk)
- 15) Rynerson, M. L. and Gassmann, A. J. 2009. “Survey of entomopathogens attacking larval corn rootworm *Diabrotica virgifera virgifera* in Iowa cornfields.” North Central Branch Meeting, Entomological Society of America. St. Louis, Missouri. (poster)
- 14) Dunbar, M. W. and Gassmann, A. J. 2009. “Assessing risk to rotated corn in Iowa from western corn rootworm.” North Central Branch Meeting, Entomological Society of America. St. Louis, Missouri. (poster)
- 13) Gassmann, A. J., Carrière, Y., and Tabashnik, B. E. 2008. “Fitness costs of insect resistance to *Bacillus thuringiensis*.” Entomological Society of America. Reno, Nevada. (talk)
- 12) Gassmann, A. J., Stock, S. P., Sisterson, M. S., Carrière, Y., and Tabashnik, B. E. 2007. “Tritrophic interactions in agroecosystems: entomopathogenic nematodes, herbivores, and host plants.” Gordon Research Conference on Plant-herbivore Interactions. Ventura, California. (poster)

- 11) Gassmann, A. J., Stock, S. P., Carrière, Y., and Tabashnik, B. E. 2006. “Effects of tritrophic interactions on the evolution of resistance to Bt toxin Cry1Ac: entomopathogenic nematodes, gossypol, and Bt-resistant pink bollworm (Lepidoptera: Gelechiidae).” Entomological Society of America. Indianapolis, Indiana. (talk)
- 10) Gassmann, A. J., Carrière, Y., and Tabashnik, B. E. 2006. “Molecular mechanisms of resistance to *Bacillus thuringiensis* and variation in the magnitude of fitness costs.” Fifth International Symposium on Molecular Insect Science. Tucson, Arizona. (poster)
- 9) Gassmann, A. J., Stock, S. P., Carrière, Y., and Tabashnik, B. E. 2005. “Effects of entomopathogenic nematodes on the fitness cost of resistance to *Bacillus thuringiensis* in the pink bollworm.” Entomological Society of America. Fort Lauderdale, Florida. (talk)
- 8) Gassmann, A. J., Stock, S. P., Carrière, Y., and Tabashnik, B. E. 2005. “Effects of entomopathogenic nematodes on the fitness cost of resistance to *Bacillus thuringiensis* in the pink bollworm.” Society for Invertebrate Pathology. Anchorage, Alaska. (talk)
- 7) Gassmann, A. J., Fabrick, J. A., Sisterson, M. S., Morin, S., Carrière, Y., Dennehy, T. J., and Tabashnik, B. E. 2005. “Decreased resistance to Bt cotton in pink bollworm?” Society for Invertebrate Pathology. Anchorage, Alaska. (talk)
- 6) Gassmann, A. J., Stock, S. P., Carrière, Y., and Tabashnik, B. E. 2005. “Effect of insect pathogens on the evolution of resistance to genetically modified crops.” National meeting for programs receiving Institutional Research and Academic Career Development Awards (IRACDA) from the National Institutes of Health. Tucson, Arizona. (poster)
- 5) Gassmann, A. J. and Hare J. D. 2004. “Indirect cost of a defensive trait: variation in trichome type affects the natural enemies of herbivorous insects on *Datura wrightii*.” Society for the Study of Evolution. Fort Collins, Colorado. (poster)
- 4) Gassmann, A. J. 2004. “Effect of photosynthetic variation on resistance to herbivores, tolerance of damage, and the assessment of fitness trade-offs.” Gordon Research Conference on Plant-Herbivore Interactions. Ventura, California. (poster)
- 3) Gassmann, A. J. 2002. “How herbivores increase the cost of resistance to herbicide.” Society for the Study of Evolution. Urbana-Champaign, Illinois. (talk)
- 2) Gassmann, A. J. 2001. “Trade-offs in resistance: How resistance to herbicide affects susceptibility to herbivores.” Society for the Study of Evolution. Knoxville, Tennessee. (talk)
- 1) Gassmann, A. J. 2000. “The cost of resistance to herbicide: Can herbivory increase the cost of resistance?” Society for the Study of Evolution. Bloomington, Indiana. (poster)

Advising Graduate Students

Major Advisor: Current Students

- 4) Devin Radosevich, Ph.D. in Entomology, Iowa State University, Summer 2020 to Present
- 3) Elliott Smith, Ph.D. in Entomology, Iowa State University, Spring 2019 to Present
- 2) John McCulloch, Ph.D. in Entomology, Iowa State University, Fall 2018 to Present.
Recipient of first place in student competition for a President’s Prize at the national meeting of the Entomological Society of America (2019)
- 1) Abigail Kropf, Ph.D. in Ecology and Evolutionary Biology, Iowa State University, Summer 2017 to Present. Recipient of second place in student competition for a President’s Prize at the national meeting of the Entomological Society of America (2019)

Major Advisor: Previous Students

- 18) Coy St. Clair, Ph.D. in Entomology, Iowa State University, Began Fall 2014 and Graduated Fall of 2019. Recipient of Dr. Jean L. Laffoon Memorial Scholarship (2014), Dr. Jean L. Laffoon Memorial Scholarship (2016)
- 17) Eric Yu, M.S. in Entomology, Iowa State University, Began Summer 2016 and Graduated Summer 2018. Co-advised with Dr. Tom Sappington
- 16) Eric Clifton, Ph.D. in Entomology, Iowa State University, Began Fall 2013 and Graduated Summer 2017. Co-advised with Dr. Erin Hodgson. Recipient of the Henry and Sylvia Richardson Research Incentive Grant (2013), Entomology Alumni Scholarship (2014), first place in the student competition at the North Central Branch meeting of the Entomological Society of America (2015), Larry Pedigo Graduate Scholarship in Entomology (2015), Jim Oleson Scholarship in Entomology (2015), Entomology Alumni Scholarship (2016)
- 15) Angela Rovnyak, M.S. in Entomology, Iowa State University, Began Fall 2013 and Graduated Fall 2016. Co-advised with Dr. Tom Sappington
- 14) Joshua Parsons, M.S. in Seed Technology and Business, Iowa State University, Began Spring 2015 and graduated Summer 2016.
- 13) Aubrey Paolino, M.S. in Entomology, Iowa State University, Fall 2013 and graduated Spring 2016.
- 12) Michael Dunbar, Ph.D. in Entomology, Iowa State University, Began Summer 2011 and graduated Spring 2016. Co-advised with Dr. Matt O'Neal. Recipient of: first place in student competition for a President's Prize at the national meeting of the Entomological Society of America (2011), third place in the student competition at the North Central Branch meeting of the Entomological Society of America (2012), Jim Oleson Scholarship from the Department of Entomology at Iowa State University (2012), travel grant for North Central Branch meeting of the Entomological Society of America (2013), second place in the student competition at the North Central Branch meeting of the Entomological Society of America (2013), recipient of the Wayne A. Rowley Scholarship in Entomology (2013), third place in the student competition at the North Central Branch meeting of the Entomological Society of America (2014), second place in student competition for a President's Prize at the national meeting of the Entomological Society of America (2014), Larry Pedigo Graduate Scholarship in Entomology (2014), third place in the student competition at the North Central Branch meeting of the Entomological Society of America (2015), second place in the student competition for a President's Prize at the national meeting of the Entomological Society of America (2015), Entomology Alumni Scholarship (2015), Wayne A. Rowley Scholarship in Entomology (2015).
- 11) David Ingber, M.S. in Entomology, Iowa State University, Began Spring 2012 and Graduated Summer 2014. Recipient of first place in student competition for a President's Prize at the national meeting of the Entomological Society of America (2013), first place in the student competition at the North Central Branch meeting of the Entomological Society of America (2014)
- 10) Stephen Thompson, M.S. in Entomology, Iowa State University, Began Spring 2008 and graduated Summer 2014.

- 9) David Hessel, Ph.D. in Genetics, Iowa State University, Began Fall 2009 and graduated Spring 2014. Co-advised with Dr. Nicholas Lauter. Recipient of Predoctoral Fellowship from United States Department of Agriculture (2012)
- 8) Julie Graesch, M.Agr. in Professional Agriculture, Iowa State University. Began Spring 2011 and graduated Fall 2013
- 7) Amanda Hoffmann, M.S. in Entomology, Iowa State University. Began Spring 2011 and graduated Summer 2013
- 6) Eric Clifton, M.S. in Entomology, Iowa State University. Began Spring 2011 and graduated Summer 2013. Co-advised with Dr. Erin Hodgson. Recipient of: first place in student competition for a President's Prize at the national meeting of the Entomological Society of America (2011), second place in student competition at the North Central Branch meeting of the Entomological Society of America (2012), second place in student competition for a President's Prize at the national meeting of the Entomological Society of America (2012)
- 5) Michael Rausch, M.S. in Entomology, Iowa State University. Began Fall 2010 and graduated Fall 2012. Co-advised with Dr. Richard Hellmich. Recipient of first place in student competition at the North Central Branch meeting of the Entomological Society of America (2012)
- 4) Robert Bruner, M. S. in Entomology, Iowa State University. Began Summer of 2010 and graduated Summer of 2012. Co-advised with Dr. Erin Hodgson. Recipient of second place in student competition at the North Central Branch meeting of the Entomological Society of America (2012)
- 3) Ryan Keweshan, M. S. in Entomology, Iowa State University. Began Spring of 2009 and graduated Summer of 2012
- 2) Michael Dunbar, M.S. in Ecology and Evolution, Iowa State University. Began Spring of 2008 and graduated Spring of 2011
- 1) Melissa (Rynerson) Rudeen, M.S. in Entomology, Iowa State University. Began Fall 2008 and graduated Fall 2010. Recipient of: Department of Entomology Scholarship for Student Excellence (2009), second place in student poster competition at North Central Branch meeting of the Entomological Society of America (2009), Larry Pedigo Graduate Scholarship in Entomology (2010), second place in student competition for President's Prize at the national meeting of the Entomological Society of America (2010), and Iowa State University Excellence Award (2010)

Committee member

- 5) Ruben Isaí Madriz, Ph.D. in Entomology, Iowa State University, Joined committee Fall 2013 and student graduated Summer 2017
- 4) Brent Mortensen, Ph.D. in Ecology and Evolution Biology, Iowa State University, Joined committee Summer 2010 and student graduated Spring 2017
- 3) Michael McCarville, Ph.D. in Entomology, Iowa State University, Joined committee Summer of 2010 and student graduated Spring of 2014
- 2) Andrew Fasbender, Ph.D. in Entomology, Iowa State University, Joined committee Fall of 2009 and student graduated Fall of 2014
- 1) Rachel Binning, Ph.D. in Entomology, Iowa State University, Joined committee Spring of 2008 and student graduated Summer of 2013

Mentoring of Postdoctoral Associates

- 7) Dr. Coy St. Clair: 2019 to 2020. Iowa State University
- 6) Dr. Ram Shrestha: 2013 to 2018. Iowa State University
- 5) Dr. John Doudna: 2014 to 2015. Iowa State University
- 4) Dr. Siva Jakka: 2013 to 2015. Iowa State University
- 3) Dr. Jennifer Deitloff: 2012 to 2013. Iowa State University
- 2) Dr. Jennifer Petzold-Maxwell: 2009 to 2013. Iowa State University
- 1) Dr. Eugene Hannon: 2007 to 2009 University of Arizona.
Co-advised with Dr. Bruce Tabashnik

Mentoring of Undergraduates

Spring 2019: Patrick Jones-Hughes; Conducted research as part of Environmental Science 391

Spring 2018: Emily Mestrik; Conducted research as part of Environmental Science 391

Spring and Summer 2013: Renato Horikoshi; Visiting student from University of Sao Paulo, Brazil

Fall 2012: Sandra Dion; Science with Practice

Fall 2010: Ximena Cibils; Science with Practice (winner of student poster competition; went on to complete an MS degree in entomology from Kansas State University)

Fall 2009: Ximena Cibils; Independent study.

Fall 2009: Amanda Hoffman; Independent study (went on to complete an MS degree in entomology from Iowa State University)

Courses Taught

Iowa State University

Course	Title	Credits	Period
ENT 376	Fundamentals of Entomology and Pest Management	3	S2009, S2010, S2011, S2012, S2013, S2014, S2015, S2016, S2017, S2018, S2019, S2020
ENT 570	Plant-Insect Interactions	2	F2009, F2011, F2013, F2015, F2017, F2019
ENT 590	Population Genetics of Insects	1	S2011, S2016
ENT 600	Graduate Exit Seminar	1	Su2019, F2019, S2020

Pima Community College

Course	Title	Credits	Period
BIO 105	Environmental Biology	4	S2006

State University of New York at Stony Brook

Course	Title	Credits	Period
BIO 115	Evolution and Society	3	F1999

Southampton College

Course	Title	Credits	Period
BIOL 255	Biometry	2	S1999

Guest Lectures

Iowa State University

Course	Title	Credits	Period
ENT / SUSAG 530	Ecologically Based Pest Management	3	F2008, F2010, F2014

State University of New York at Stony Brook

Course	Title	Credits	Period
BEE 552	Biometry	4	S2000

Graduate Faculty Membership

Entomology	2008 to Present
Ecology and Evolutionary Biology	2008 to Present
Sustainable Agriculture	2012 to Present
Seed Technology and Business	2015 to Present

Professional Development in Teaching

- 2) Teaching Workshop: Addressing Implicit Bias in STEM. Fall 2018 (October 1, 8, 22 and 29). Conducted by the Center for the Integration of Research, Teaching and Learning, Indiana University. Hosted by Center for Excellence in Learning and Teaching, Iowa State University
- 1) Teaching Workshop. Large classes: teaching & learning circle. Spring 2013 (March 5, 12 and 26; April 2 and 9). Center for Excellence in Learning and Teaching, Iowa State University

Outreach Videos (presenting author is underlined)

- 5) Gassmann, A. J. 2018. Western corn rootworm management update. Commercial AG Continuing Instruction Course, Iowa State University Extension.
- 4) Hodgson, E. W., and Gassmann, A. 2016. Corn rootworm management update. Pesticide Safety Education Program, Iowa State University.
- 3) Gassmann, A. J. 2014. Resistance evolution and IRM for rootworm. Plant Management Network.
- 2) Gassmann, A. J. 2012. Western corn rootworm challenges from Bt resistance. Private Pesticide Applicator Continuing Instructional Course, Iowa State University Extension.
- 1) Gassmann, A. J. 2012. Western corn rootworm challenges from Bt resistance. Commercial Ag Weed, Insect and Disease Management Continuing Instructional Course, Iowa State University Extension.

Outreach Presentations (146 total; presenting author is underlined)

- 146) Gassmann, A. J. 2020. Potential for monitoring insect pests of corn. Iowa Corn Growers Association and Cultivation Sandbox Ventures. Virtual Meeting.
- 145) Gassmann, A. J. 2020. Research update on Bt resistance by western corn rootworm. Iowa Pest Resistance Management Working Group. Virtual Meeting.
- 144) Gassmann, A. J. 2020. Bt resistance by western corn rootworm and approaches for management. Syngenta Training Event. Seed Science Center, Iowa State University. Ames, IA
- 143) Gassmann, A. J. 2020. Considerations for combining traits and insecticides to manage western corn rootworm. NC246. Madison, WI
- 142) Gassmann, A. J. 2019. Western corn rootworm update. In-service Training for Field Agronomists. Iowa State University. Ames, IA
- 141) Gassmann, A. J. and Coates, B. S. 2019. Risks of resistance to Cry34/35Ab1 by western corn rootworm. Annual Project Directors Meeting for Biotechnology Risk Assessment Grants Program. Riverdale, MD
- 140) Gassmann, A. J. 2019. Western corn rootworm biology and management. Presentation given remotely to John Deere Crop Production Innovation Team. Urbandale, IA
- 139) Gassmann, A. J. 2019. Insights into Bt resistance by western corn rootworm: Results from research conducted under Monsanto's corn rootworm knowledge grant. Bayer, Academic Summit. St. Louis, MO
- 138) Gassmann, A. J. 2019. Update on resistance to Cry34/35Ab1 by western corn rootworm. NC246. Cleveland, OH
- 137) Gassmann, A. J. 2017. Western corn rootworm update. Follow-up stakeholder meeting to discuss Iowa Pest Resistance Management Plan. Wright Co. IA
- 138) Gassmann, A. J. 2017. Western corn rootworm update. Follow-up stakeholder meeting to discuss Iowa Pest Resistance Management Plan. Bremer Co. IA
- 137) Gassmann, A. J. 2017. Western corn rootworm update. Stakeholder meeting to discuss Iowa Pest Resistance Management Plan. Wright Co. IA
- 136) Gassmann, A. J. 2017. Western corn rootworm update. Stakeholder meeting to discuss Iowa Pest Resistance Management Plan. Bremer Co. IA
- 135) Bermond, G. Meinke, L. Hibbard, B. Gassmann, A. Miller, N. 2017. Hunting for Cry3Bb1 resistance genes. Monsanto Corn Academic Summit. St. Louis, MO

- 134) Shrestha, R. B. and Gassmann A. J. 2017. Effects of current agricultural practices on western corn rootworm and optimal strategies for management. Monsanto Corn Academic Summit. St. Louis, MO
- 133) Gassmann, A. J. 2016. Ask the Expert. Iowa State University Tent at Farm Progress Show. Boone, IA
- 132) Hodgson, E. W., Dunbar, M., O’Neal, M. and Gassmann, A. 2016. Managing cover crop pests for corn and soybean production. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Atlantic, IA
- 131) Hodgson, E. W., Dunbar, M., O’Neal, M. and Gassmann, A. J. 2016. Managing cover crop pests for corn and soybean production. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Waterloo, IA
- 130) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Sheldon, IA
- 129) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Okoboji, IA
- 128) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Burlington, IA
- 127) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Strom Lake, IA
- 126) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Honey Creek, IA
- 125) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Fort Dodge, IA
- 124) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Waterloo, IA
- 123) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Iowa City, IA
- 122) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Le Mars, IA
- 121) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm research and management update. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Moline, IL
- 120) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm updates for Iowa. Crop Shop with Rod Pierce, Ogden, IA
- 119) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm updates for Iowa. North Central Iowa Research Association Sponsor Education Meeting, Wesley, IA.

- 118) Hodgson, E. W., and Gassmann, A. J. 2016. Corn rootworm updates for Iowa. WinField Iowa Regional Conference and Agronomy Update, Ames, IA.
- 117) Hodgson, E. W., and Gassmann, A. J. 2015. Corn rootworm resistance management update. Iowa State University Field Agronomist Professional Development Workshop, Field Extension Education Laboratory, Ames, IA
- 116) Gassmann, A. J. 2015. Western corn rootworm and Bt maize: a model for understanding pest management with Bt crops that are not high dose. Presented as part of an educational component for a grant from USDA AFRI Food Security Challenge Area. Ames, IA
- 115) Gassmann, A. J. 2015. Effects of current agricultural practices on western corn rootworm and optimal strategies for management. Monsanto Corn Academic Summit. St. Louis, MO
- 114) Gassmann, A. J. 2015. Resistance to Bt corn by Western Corn Rootworm. Iowa State University and Iowa Department of Agriculture and Land Stewardship stakeholder meeting to discuss resistance management in Iowa. Ames, IA
- 113) Gassmann, A. J. 2015. Iowa Research Update: Assessment of Western Corn Rootworm Resistance to Cry34/35Ab1 and eCry3.1Ab. NCCC46 / NC205. San Antonio, TX
- 112) Hodgson, E. W., Dunbar, M., O'Neal, M. and Gassmann, A. J. 2015. Managing cover crop pests for corn and soybean production. Iowa State University Extension and Outreach Integrated Crop Management Annual Conference, Ames, IA.
- 111) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2015. Managing the billion dollar beast in the Midwest: western corn rootworm. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Okoboji, IA
- 110) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2015. Managing the billion dollar beast in the Midwest: western corn rootworm. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Burlington, IA
- 109) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2015. Managing the billion dollar beast in the Midwest: western corn rootworm. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Storm Lake, IA
- 108) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2015. Managing the billion dollar beast in the Midwest: western corn rootworm. Iowa State University Extension and Outreach Crop Advantage Series Workshops. Iowa City, IA
- 107) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2014. Western corn rootworm management update. Iowa State University Extension and Outreach Ag Chem Dealer Update. Iowa City, IA
- 106) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2014. Western corn rootworm management update. Iowa State University Extension and Outreach Ag Chem Dealer Update. Ames, IA
- 105) Hodgson, E. W., Dunbar, M. and Gassmann, A. J. 2014. Corn rootworm management challenges and recommendations. The Illinois, Indiana, Ohio (Tri-State) Certified Crops Advisers Annual Conference, Indianapolis, IN
- 104) Gassmann, A. J. 2014. Resistance in Iowa Agriculture. Iowa State University Tent at Farm Progress Show. Boone, IA
- 103) Gassmann, A. J. 2014. Update on western corn rootworm. In-service training for scientists, management and field personnel from Bayer CropScience. Ames, IA

- 102) Gassmann, A. J. 2014. Update on western corn rootworm. In-service training for scientists, management and field personnel from Valent. Ames, IA
- 101) Gassmann, A. J., Coats, B. S., Miller, N. J., Meinke, L. J. and Siegfried, B. D. 2014. Risks from field-evolved resistance to Bt corn by western corn rootworm. Annual Project Directors Meeting for Biotechnology Risk Assessment Grants Program. Riverdale, MD
- 100) Gassmann, A. J. 2014. Resistance to Bt corn by western corn rootworm. Farmer meeting at North Central Cooperative. Clarion, IA
- 99) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Okoboji, IA
- 98) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Burlington, IA
- 97) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Storm Lake, IA
- 96) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Waterloo, IA
- 95) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Le Mars, IA
- 94) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Iowa City, IA
- 93) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management. 2014 Iowa State University Extension and Outreach Crop Advantage Series Workshops. Carroll, IA
- 92) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management recommendations. Southeast Iowa Agricultural Research Association Annual Meeting, Iowa City, IA
- 91) Hodgson, E. W. and Gassmann, A. J. 2014. Western corn rootworm resistance management recommendations. Boshart Sales Winter Meeting, Washington, IA.
- 90) Gassmann, A. J. 2014. Resistance evolution and IRM for rootworm. USDA NIFA funded webinar entitled, "Corn rootworm management in a transgenic era."
- 89) Gassmann, A. J. 2014. Resistance to Bt corn by western corn rootworm. Iowa Soybean Association's On-Farm Network Conference. Ames, IA
- 88) Gassmann, A. J. 2014. Research on western corn rootworm in Iowa as part of Monsanto's corn rootworm knowledge grant. Monsanto Corn Summit. St. Louis. Mo.
- 87) Gassmann, A. J. 2014. Bt resistance in western corn rootworm. Ohio Agribusiness Association Industry Conference. Columbus, OH
- 86) Gassmann, A. J. 2014. Corn rootworm research update. NCCC46. Atlanta, GA
- 85) Hodgson, E. W. and Gassmann, A. J. 2013. Corn rootworm management challenges and recommendations. Albert Lee Seed House Open House, Albert Lea, MN
- 84) Hodgson, E. W. and Gassmann, A. J. 2013. Western corn rootworm resistance management. Iowa Farm Bureau Farmer meeting series. Garner, IA

- 83) Hodgson, E. W. and Gassmann, A. J. 2013. Western corn rootworm resistance management. Iowa Farm Bureau Farmer meeting series. Northwood, IA
- 82) Gassmann, A. J. and Hodgson, E. W. 2013. Western corn rootworm and Bt corn in Iowa. Integrated Crop Management Conference. Iowa State University. Ames, IA
- 81) Gassmann, A. J. 2013. Monitoring western corn rootworm for Bt resistance. In-service Training for Field Agronomists. Iowa State University. Ames, IA
- 80) Dunbar, M. W., Gassmann, A. J. and O'Neal, M. E. 2013. Impact of rye cover crop on ground-dwelling beneficial arthropods. CSCAP Annual Meeting. West Lafayette, IN
- 79) Gassmann, A. J., Coats, B. S., Miller, N. J., Meinke, L. J. and Siegfried, B. D. 2013. Risks from field-evolved resistance to Bt corn by western corn rootworm. Annual Project Directors Meeting for Biotechnology Risk Assessment Grants Program. Riverdale, MD
- 78) Gassmann, A. J. 2013. Resistance to Bt maize by western corn rootworm: a case study from Iowa, USA. Canadian Food Inspection Agency Workshop in conjunction with the Canadian Corn Pest Coalition. Ottawa, Canada.
- 77) Gassmann, A. J. 2013. Monitoring western corn rootworm resistance to Bt corn in Iowa: results from 2012. NCCC46 / NC205. New Orleans, LA
- 76) Gassmann, A. J. 2013. Research on western corn rootworm at Iowa State University: update for 2012. NCCC46. New Orleans, LA
- 75) Gassmann, A. J. 2013. Monitoring western corn rootworm resistance to Bt corn in Iowa: results from 2012. NCCC46. New Orleans, LA
- 74) Gassmann, A. J. and Hodgson, E. W. (co-presented talk). 2013. Corn rootworm field day. Iowa State University Field Extension and Education Laboratory. Boone, IA
- 73) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. ISU Northwest Farm Data Review Meeting. Spencer, IA.
- 72) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa Corn Growers Association. Ogden, IA
- 71) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa Corn Growers Association. Coon Rapids, IA
- 70) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Agribusiness Showcase and Conference, Certified Crop Advisor Program. Des Moines, IA.
- 69) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Winfield Solutions Regional Conferences. Mankato, MN
- 68) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Winfield Solutions Regional Conferences. Brookings, SD
- 67) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Winfield Solutions Regional Conferences. Ames, IA
- 66) Hodgson, E. W., and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Sheldon, IA
- 65) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Honey Creek, IA
- 64) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Okoboji, IA
- 63) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Mason City, IA

- 62) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Burlington, IA
- 61) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Ames, IA
- 60) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Storm Lake, IA
- 59) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Atlantic, IA
- 58) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Carroll, IA
- 57) Hodgson, E. W. and Gassmann, A. J. 2013. Sustainable corn rootworm resistance management. Iowa State University Crop Advantage Series Workshop. Le Mars, IA
- 56) Gassmann, A. J. 2012. Western corn rootworm and Bt corn in Iowa. Iowa Corn Growers Association. Des Moines, IA
- 55) Gassmann, A. J. 2012. Western corn rootworm and challenges from Bt resistance. In-service training for Iowa State University field agronomists. Ames, IA
- 54) Gassmann, A. J. 2012. Western corn rootworm and Bt corn in Iowa. NCCC46. Minneapolis, MN
- 53) Gassmann, A. J. 2012. Western corn rootworm resistance to Bt corn. WinField Solutions Agronomy Update. Ames, IA
- 52) Gassmann, A. J. 2012. Western corn rootworm resistance to Bt corn. American Vanguard Corporation in-service training. Des Moines, IA
- 51) Gassmann, A. J. 2012. Bt corn and western corn rootworm in Iowa. NCCC46 / NC205. Lexington, KY
- 50) Hodgson, E. W. and Gassmann, A. J. 2012. Sustainable corn rootworm management in Iowa. Iowa State University Extension and Outreach Ag Chem Dealer Update. Iowa City, IA
- 49) Hodgson, E. W. and Gassmann, A. J. 2012. Sustainable corn rootworm management in Iowa. Iowa State University Extension and Outreach Ag Chem Dealer Update. Ames, IA
- 48) Hodgson, E. W. and Gassmann, A. J. 2012. Sustainable corn rootworm management in Iowa. Iowa Certified Crop Advisors Program. Ames, IA.
- 47) Hodgson, E. W. and Gassmann, A. J. 2012. Corn rootworm resistance update and management recommendations. Gromark Advanced Agronomy Day. Bloomington, IL.
- 46) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance update and management recommendations. AgReliant Genetics Regional Meeting. Sioux Falls, SD.
- 45) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance update and management recommendations. Gromark Advanced Agronomy Day. Bloomington, IL.
- 44) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Ames, IA
- 43) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Burlington, IA
- 42) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Carroll, IA
- 41) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Iowa City, IA

- 40) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Le Mars, IA
- 39) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Mason City, IA
- 38) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Sheldon, IA
- 37) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Spirit Lake, IA
- 36) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Waterloo, IA
- 35) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Iowa City, IA
- 34) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Oakland, IA
- 33) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Orient, IA
- 32) Gassmann, A. J., and Hodgson, E. W. 2012. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Villisca, IA
- 31) Gassmann, A. J. 2011. Seedling assay to measure rootworm response to Bt maize. Pioneer Academic Forum. Reno, NV.
- 30) Gassmann, A. J. and Weber, P. J. 2011. Field trials in two Iowa problem fields in 2011. Monsanto Academic Meeting. Reno, NV.
- 29) Gassmann, A. J. and Dunbar, M. W. 2011. Corn rootworm management. August Field Day, Northeast Research and Demonstration Farm, Iowa State University
- 28) Gassmann, A. J. 2011. Research update: basic and applied research on pests of corn. North Central Communications Committee 46. Columbus, OH.
- 27) Gassmann, A. J. 2011. Screening field populations of western corn rootworm for susceptibility to Bt corn. North Central Communications Committee 46. Columbus, OH
- 26) Gassmann, A. J., and Hodgson, E. W. 2011. Corn rootworm resistance update and management recommendations. Winfield Solutions Regional Conference, Kearney, NE.
- 25) Gassmann, A. J. 2011. Western corn rootworm resistance to Bt corn. AGMasters Conference, University of Illinois, Urbana, IL.
- 24) Gassmann, A. J., Dunbar, M. W. and Hodgson, E. W. 2011. Corn rootworm resistance management update. Field Agronomists Professional Development Update, Iowa State University, Ames, IA.
- 23) Clifton, E., Hodgson, E. W., and Gassmann, A. J. 2011. Entomopathogenic fungi and nematodes in agriculture. Practical Farmers of Iowa Field Day. Boone, IA.
- 22) Clifton, E., Hodgson, E. W., and Gassmann, A. J. 2011. Entomopathogenic fungi and nematodes in agriculture. Practical Farmers of Iowa Field Day. Farm of Paul Mungge. Sutherland, IA
- 21) Keweshan, R. S., Head, G. P., and Gassmann, A. J. 2011. Evaluating response of northern and western corn rootworm to transgenic Bt corn. Monsanto Academic Meeting, Minneapolis, MN
- 20) Hodgson, E. W. and Gassmann, A. J. 2011. Corn rootworm resistance management and efficacy evaluations. Southeast Iowa Research Association Annual Meeting. Crawfordsville, IA.

- 19) Hodgson, E. W. and Gassmann, A. J. 2011. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Burlington, IA
- 18) Hodgson, E. W. and Gassmann, A. J. 2011. Corn rootworm resistance management. Iowa State University Extension Crop Advantage Series Workshops. Cedar Rapids, IA
- 17) Gassmann, A. J. and Hodgson, E. W. 2011. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Ames, IA
- 16) Gassmann, A. J. and Hodgson, E. W. 2011. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Charles City, IA
- 15) Gassmann, A. J. and Hodgson, E. W. 2011. Corn rootworm: is there a new concern? Iowa State University Extension Ag Chem Dealer Update. Iowa City, IA
- 14) Gassmann, A. J. 2010. Insect resistance management and integrated pest management for maize agroecosystems. Pioneer Academic Data Review, San Diego, CA
- 13) Gassmann, A. J. and Hodgson, E. W. 2010. New technologies for corn rootworm management. Iowa State University Extension Ag Chemical Dealer Update Series. Iowa City, IA
- 12) Gassmann, A. J., Dunbar, M. W., and Hodgson, E. W. 2010. Corn rootworm IPM in Iowa. Iowa State University Extension Crop Advantage Series Workshops. Mason City, IA
- 11) Gassmann, A. J., Dunbar, M. W., and Hodgson, E. W. 2010. Corn rootworm IPM in Iowa. Iowa State University Extension Crop Advantage Series Workshops. Spirit Lake, IA
- 10) Gassmann, A. J., Dunbar, M. W., and Hodgson, E. W. 2010. Corn rootworm IPM in Iowa. Iowa State University Extension Crop Advantage Series Workshops. Waterloo, IA
- 9) Gassmann, A. J. 2009. Integrated pest management for corn rootworm in Iowa. Integrated Crop Management Conference. Iowa State University. Ames, IA
- 8) Dunbar, M. W. and Gassmann, A. J. 2009. Assessing risk to rotated corn in Iowa from western corn rootworm. Corn-Soybean Initiative Roundtable. Iowa State University.
- 7) Gassmann, A. J. and Tollefson, J. J. 2009. Managing insect pests in corn. Corn-Soybean Initiative Roundtable. Iowa State University. Ames, IA
- 6) Tollefson, J. J. and Gassmann, A. J. 2009. Corn insect update. In-service Training for Field Agronomists. Iowa State University. Ames, IA
- 5) Tollefson, J. J. and Gassmann, A. J. 2009. Corn insect update. North Central Iowa Crop & Land Stewardship Clinic. Iowa State University.
- 4) Tollefson, J. J. and Gassmann, A. J. 2009. Corn insect update. Commercial Ag Weed, Insect and Disease Management. Iowa State University.
- 3) Dunbar, M. W. and Gassmann, A. J. 2008. Mapping rotation-resistant western corn rootworm in Iowa. Corn-Soybean Initiative Roundtable. Iowa State University. Ames, IA
- 2) Gassmann, A. J. 2008. Corn pests research at Iowa State University: new frontiers in resistance management and more... Northeast Iowa Research and Demonstration Farm field day. Iowa State University. Nashua, IA
- 1) Gassmann, A. J. 2008. Managing corn rootworms in corn-soybean rotation. Pest Management Tour at John Heisdorffer Farm. Sponsored by Iowa State University.

Attendance at USDA Committee Meetings

Multistate Research Project, NC246 (Ecology and management of arthropods in corn)

- 4) January 2020, Madison, WI
- 3) January 2019, Cleveland, OH
- 2) January 2018, Williamsburg, VA
- 1) January 2017, Wichita, KS

North Central Communication Committee 46 (Development, optimization, and delivery of management strategies for corn rootworms and other below-ground insect pests of maize) Project ended September, 2016

- 11) January 2015, San Antonio, TX
- 10) January 2014, Atlanta, GA
- 9) March 2013, Minneapolis, MN
- 8) January 2013, New Orleans, LA
- 7) October 2012, Minneapolis, MN
- 6) June 2012, Ames, IA
- 5) January 2012, Lexington, KY
- 4) January 2011, Columbus, OH
- 3) January 2010, Madison, WI
- 2) January 2009, Minneapolis, MN
- 1) January 2008, Saint Louis, MO

Multistate Research Project, NC205 (Ecology and management of European corn borer and other lepidopteran pests of corn)

Project ended September, 2015

- 8) January 2015, San Antonio, TX
- 7) January 2014, Atlanta, GA
- 6) March 2013, Minneapolis, MN
- 5) January 2013, New Orleans, LA
- 4) October 2012, Minneapolis, MN
- 3) June 2012, Ames, IA
- 2) January 2012, Lexington, KY
- 1) January 2011, Columbus, OH

Attendance at USDA Project Director's Meetings

- 2) June 2019, Riverdale, MD
- 1) June 2013, Riverdale, MD

Advisory Roles

- 6) Member of Iowa Department of Agriculture and Land Stewardship, Pesticide and Fertilizer Advisory Committee, 2017 to Present
- 5) US EPA Resistance Detection Working Group, 2011 to Present
- 4) Member of Science Advisory Board for Center for Science in the Public Interest, 2014 to Present

- 3) Member of Advisory Panel for Monsanto Corn Rootworm Knowledge Grant Program, 2012 to 2014
- 2) ABSTC Advisory Group on Resistance Detection for Bt Corn, 2012
- 1) Search committee for USDA-ARS Research Entomologist. Corn Insects and Crop Genetics Research Unit. 2010

Service to Professional Societies

- 10) Co-organized and moderated symposium for the national meeting of the Entomological Society of America, 2018
- 9) Co-organized and moderated two sessions for a meeting of the International Working Group on *Ostrinia* and Other Pests of Maize, 2017
- 8) Co-organized and moderated symposium for the International Congress of Entomology, 2016
- 7) Judge for graduate student presentations at the International Congress of Entomology, 2016
- 6) Co-organized and moderated symposium for meeting of the North Central Branch of the Entomological Society of America, 2014
- 5) Moderator for student competition. Entomological Society of America, 2013
- 4) Panel member for, “Job opportunities for 21st century scientists” held during the annual meeting of the Society for Invertebrate Pathology, 2012
- 3) Judge for student poster presentations at the annual meeting of Society for Invertebrate Pathology, 2012
- 2) Membership Committee, North Central Branch of the Entomological Society of America, 2008 to 2013
- 1) Selection panelist for Entomological Society of America’s Stan Beck Fellowship, 2008

Scientific Review Activities

- 12) *Ad hoc* reviewer for Agriculture and Agri-Food Canada research program, 2019
- 11) *Ad hoc* reviewer for National Science Foundation (NSF) - National Institute of Food and Agriculture (NIFA)-USDA Plant Biotic Interactions Program, 2018.
- 10) USDA NIFA Member of Grant Review Panel, 2017
- 9) *Ad hoc* reviewer for French National Research Agency (ANR) grants program, 2016
- 8) Reviewer for US National Academies of Sciences, Engineering, and Medicine report, “Genetically Engineered Crops: Past Experience and Future Prospects,” 2016
- 7) USDA NIFA Member of Grant Review Panel, 2014
- 6) Subject Editor, Journal of Economic Entomology, 2013 to present. Have served as subject editor for more than 100 manuscripts.
- 5) Invited Guest Editor, GM Crops & Food, special issue of on pest resistance to Bt crops, 2011 to 2012
- 4) External reviewer for MS thesis in entomology at Cairo University, Egypt, 2011
- 3) *Ad hoc* reviewer for Iowa State University Experiment Station Project Proposals, 2010 and 2011
- 2) *Ad hoc* reviewer for United States Department of Agriculture, Biotechnology Risk Assessment Grants Program, 2008.
- 1) *Ad hoc* reviewer (number in parentheses indicates the total number of reviews completed):
Journal of Economic Entomology (17)
Biological Control (5)

Journal of Applied Entomology (4)
Journal of Insect Science (4)
Journal of Invertebrate Pathology (4)
Pest Management Science (4)
Ecological Applications (3)
Environmental Entomology (3)
Evolutionary Applications (3)
Functional Ecology (3)
Proceedings of the National Academy of Sciences USA (3)
Crop Protection (2)
Entomologia Experimentalis et Applicata (2)
Journal of Pest Science (2)
PLoS ONE (2)
Scientific Reports (2)
African Journal of Biotechnology (1)
Annals of the Entomological Society of America (1)
Applied Soil Ecology (1)
Arthropod-Plant Interactions (1)
Bioessays (1)
Biological Journal of the Linnean Society (1)
BMC Evolutionary Biology (1)
Crop Science (1)
Ecological Entomology (1)
Field Crops Research (1)
Heredity (1)
Insects (1)
International Journal of Biological Sciences (1)
International Journal of Plant Sciences (1)
Journal of Applied Ecology (1)
Journal of Ecology (1)
Journal of Evolutionary Biology (1)
Journal of Insect Behavior (1)
Journal of the Kansas Entomological Society (1)
Journal of Stored Products Research (1)
Nature Biotechnology (1)
Nature Reviews Microbiology (1)
Oecologia (1)
Oikos (1)
Pesticide Biochemistry and Physiology (1)
Planta (1)
PLoS Pathogens (1)
Proceedings of the Royal Society—Section B (1)
Science (1)
Stored Products Research (1)
Systematic Botany (1)
Weed Science (1)

Institutional Service

- 18) Judge for Poster Competition. Graduate and Professional Student Research Conference. Iowa State University. 2020.
- 17) College of Agriculture and Life Sciences Search Committee for Associate Dean of Academic Innovation. Fall 2019
- 16) Department of Entomology / Department of Plant Pathology and Microbiology Realignment Committee. Spring 2019 to Fall 2019
- 15) Co-Chair of Department of Entomology Seminar Committee, Spring 2019 to Present
- 14) Faculty Senate Documents Committee. Fall 2018 to Present
- 13) Department of Entomology Faculty Representative to College of Agriculture and Life Sciences Faculty Senate Caucus. 2016 to Present
- 12) Department of Entomology Faculty Representative to Iowa State University Faculty Senate. 2016 to Present
- 11) Iowa State University representative for North Central Committee 246: “Ecology and management of arthropods in corn.” 2015 to Present.
- 10) College of Agriculture and Life Sciences / IDALS, Iowa Pest Resistance Management Plan Task Force, 2014 to Present.
- 9) Co-Chair of Greenhouse Operations Committee, Department of Entomology, Iowa State University, 2009 to 2018
- 8) Biosciences Facility Planning Committee, 2014 to 2017.
- 7) Iowa State University representative for North Central Communication Committee 46: “Development, optimization, and delivery of management strategies for corn rootworms and other below-ground insect pests of maize.” 2008 to 2016.
- 6) Panel Member for Graduate Studies 592 course. Discussed strategies for publishing peer-reviewed journal articles. 2016.
- 5) Iowa State University Biotechnology Council, 2012 to 2015
- 4) Iowa State University representative for North Central Research Committee 205: “Ecology and management of European corn borer and other lepidopteran pests of corn.” 2010 to 2015
- 3) Poster Session Committee: National meeting for programs receiving Institutional Research and Academic Career Development Awards (IRACDA) from the National Institutes of Health. Tucson, AZ. 2005.
- 2) Graduate Student Representative, Preliminary Examination Committee, Department of Ecology and Evolution, SUNY-Stony Brook. 2001.
- 1) Departmental Representative, Graduate Student Organization, SUNY-Stony Brook. 1998-2000.