

Bibliography, Feed the Future Innovation Lab for Collaborative Research on Grain Legumes (Legume Innovation Lab), 2013 to Present

Strategic Objective One: Advancing the Productivity Frontier for Grain Legumes

A. Refereed Journal Articles

Agunbiade, T., Steele, L., Coates, B. S., Gassmann, A., Margam, V. M., Ba, M., Dabirí, C., Baoua, I., Bello-Bravo, J., Seufferheld, F., Sun, W., Tamò, M., Pittendrigh, B.R. IPM-omics: from genomics to extension for integrated pest management of cowpea. In: **Boukar, O., Coulibaly, O., Fatokun, C., Lopez, K., Tamò M.** (eds.). 2013. Enhancing Cowpea Value Chains through Research Advances. Proceedings of the 5th World Cowpea Research Conference, 26 September–1 October 2010 Saly, Senegal, pp. 231–248.

Agunbiade, T.A., B.S. Coates, B. Datinon, R. Djouaka, M.-R. Tsai, W. Sun, **M. Tamò,** and **B. R. Pittendrigh.** 2014. Genetic differentiation among *Maruca vitrata* F. (Lepidoptera: Crambidae) populations on cultivated cowpea and wild host plants: Implications for insect resistance management and biological control strategies. *PLoS ONE* 9(3): e92072.

Agunbiade, T.A., B.S. Coates, W. Sun, M.-R. Tsai, M.C. Valero, and **B.R. Pittendrigh.** Defining the species complex of the legume pod borer, *Maruca vitrata* (Lepidoptera: Crambidae), by comparative mitochondrial phylogenomics. Submitted.

Agunbiade, T.A., W. Sun, **B. S. Coates,** R. Djouaka, **M. Tamo, M. N. Ba, C. Binso-Dabire, I. Baoua,** B. P. Olds, and **B.R. Pittendrigh.** 2013. Development of reference transcriptomes for the major insect pests of cowpea: A toolbox for insect pest management approaches in West Africa. *PLoS ONE*, 8(11): e79929.

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Beaver, J.S., J.C. Rosas, T.G. Porph, M.A. Pastor-Corrales, G. Godoy-Lutz and **E.H. Prophete.** 2015. Registration of PR0806-80 and PR0806-81 white bean germplasm with resistance to BGYMV, BCMV, BCMNV and rust. *J. Plant Reg.* 9:208–211.

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- B. Other Publications (reports, conference papers, working papers, manuals, etc.)**
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- Traub J. ,** Naeem M, Austic G, **Kelly, J., Kramer, D., Loescher L.** Assessing and comparing relationships between heat and drought tolerance: analytical approaches. Poster presentation at American Society for Horticultural Science Conference 2015, August 4–7. New Orleans, LA.
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- van Etten J., **J. C. Rosas** and I. Rodriguez. 2014 First experiences with participatory massive evaluation of common beans in Honduras. Presentation made at the 2014 meeting of the PCCMCA held in Nicaragua from 28 April to 3 May 2014.
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- Vargas, A., **T.G. Porch** and **J.S. Beaver.** 2014. Evaluation of the tepary bean (*Phaseolus acutifolius*) CIAT germplasm collection for response to common bacterial blight and bean common mosaic necrosis virus. *Ann. Rep. Bean Improv. Coop.* 57:181–182.
- Vásquez J., **Estévez de Jensen C.**, Ghising, K., VanderWal, M., Kloberdanz M. and Osorno J.M., 2015. Screening field resistance to the root rot complex within the Andean Diversity Panel (ADP). Presentation at the Common Bean Disease Workshop on Angular Leaf Spot and Root Rot held in Skukuza, South Africa from 20 to 23 July 2015.
- Viteri, D. M., H. Terán, M. C. Asensio-S.-Manzanera, C. Asensio, **T. G. Porch, P. N. Miklas,** and S. P. Singh. 2014. Progress in breeding Andean common bean for resistance to common bacterial blight. *Crop Sci.* 54: 2084–2092.
- Wetro, E., A. K. Tounou, C. Agboton, B. Datinon, R. Srinivasan, **B.R. Pittendrigh** and **M. Tamo.** 2014. Bionomics of the parasitoid *Apanteles taragamae* as influenced by different diets fed to its host, *Maruca vitrata*. *BioControl*, 59: 55–65.
- C. Other Types of Output (presentations, webpages, videos, equipment designs, etc.)**
- Bello-Bravo, J.** 2014. Scientific Animations Without Borders. *Expert Consultation on Facilitating the Convergence of ICT*, Rhenen, The Netherlands, October 29–31, 2014.
- Maredia, M., B. Reyes,** M. Niango, B. Pittendrigh, and J. Bello-Bravo. 2014. Can Animated Educational Materials Induce Learning and Adoption Among Low-Literate Farmers? A Field Experiment on the Dissemination of Cowpea Grain Storage Technologies in Burkina Faso. Sokoine University of Agriculture, Tanzania, June 25, 2014.

Tamò, M. 2015. Free-air CO₂ enrichment (FACE) for research on sustainable pest management in Africa. RIPE/FACE workshop, July 10–13, 2015, Urbana–Champaign, USA.

D. Dissertations and Theses

Agli, C. A. & AGO. D. 2014. *Effectiveness of parasitism of Apanteles taragamae and Therophilus javanus on Maruca vitrata pest of cowpea*, BSc thesis, Polytechnic School of Abomey-Calavi/ University of Abomey–Calavi, EPAC/UAC, Cotonou, Benin.

Agunbiade, T. 2014. *A Genomic Analysis of the Insect Pest Populations of Cowpea in West Africa*. PhD Thesis, University of Illinois at Urbana–Champaign.

Agunbiade, T. 2014. *A Genomic Analysis of the Insect Pest Populations of Cowpea in West Africa*. PhD Thesis, University of Illinois at Urbana–Champaign.

Akogninou, L. 2014. *Behavior of Therophilus javanus Bhat & Gupta on larvae from eggs of Maruca vitrata (Fabricius) parasited by Phanerotoma syleptae Zettel*, BSc thesis, Agronomy Faculty/ University of Parakou, FA/UPA, Parakou, Benin.

Akpoffo, M. A. 2014. *Evaluation de quelques paramètres biologiques et de l'efficacité de Therophilus javanus Bhat et Gupta (Hymenoptera: Braconidae), parasitoïde larvaire de Maruca vitrata Fabricius (Lepidoptera: Crambidae), foreuse des fleurs et des gousses du niébé (Vigna unguiculata (L.) Walp)*. MSc thesis, Université Africaine de technologie et de management UATM/GASA, Cotonou, Benin.

Boni fofana, R. & Ahouantchede, H. S. 2014: *Effectiveness of Apanteles taragamae and Therophilus javanus to control Maruca vitrata pest of cowpea*, BSc thesis, Polytechnic School of Abomey–Calavi/ University of Abomey–Calavi, EPAC/UAC, Cotonou, Benin.

Dandjinou, G. V. 2014. *Testing biopesticides: Neem oil dosage and combinations of MaviMNPV: 1st planting season 2014*, BSc thesis, Agronomy Faculty/ University of Parakou, FA/UPA, Parakou, Benin.

Fuseini Abdulai, 2015. *Field evaluation of neem seed extracts from different ecological zones of Ghana in the control of cowpea pests*. BSc Thesis, University for Development Studies, Tamale, Ghana.

Hounsa, P. M. G. 2014. *Etude des interactions entre Trichogrammatoïdea eldanae Viggiani (Hymenoptera: Trichogrammatidae), et Phanerotoma syleptae Zettel (Hymenoptera: Braconidae); deux parasitoïdes de Maruca vitrata Fabricius (Lépidoptera: Crambidae), ravageur du niébé (Vigna unguiculata (L.) Walp)*. MSc thesis, Université Africaine de technologie et de management UATM/GASA, Cotonou, Benin.

Laleye, F. 2014. *Determining the host range for the exotic parasitoids Therophilus javanus (Hymenoptera: Braconidae)*, BSc thesis, Agronomy Faculty/ University of Parakou, FA/UPA, Parakou, Benin.

Menhinto Toffa, J. 2015. *Contribution to sustainable management strategies of Maruca vitrata Fabricius (Lepidoptera: Crambidae) of Vigna unguiculata L. Walp by using entomopathogenic*

products in Benin, PhD Thesis, Faculty of Letters, Arts and Humanities Sciences /University of Abomey–Calavi, FLASH/UAC, Cotonou, Benin.

Mukeshimana, G. 2013. *Dissecting the genetic complexity of drought tolerance mechanisms in common bean (Phaseolus vulgaris L.)*. Doctoral Dissertation, Michigan State University, East Lansing MI. 210pp.

Sagbo, R., 2015. *Evaluation of continuous multiplication of its host Trichogrammatoidea eldanae substitution of Corcyra Cephalonica in a release device*, MSc thesis, Faculty of Agronomic Sciences / University of Abomey–Calavi, EPAC/UAC, Cotonou, Benin.

Zanzana, K., 2015. *Evaluation of the colonization of the various organs of the cowpea by endophytic B. bassiana (Ascomycota: Hypodreales)*, MSc thesis, Faculty of Technic Sciences/University of Abomey–Calavi, FAST/UAC, Cotonou, Benin.

E. Scholarly Activities and Accomplishments

Cisse, N. et al. 2015. Formal release of five new cowpea varieties in Senegal with large white seed-type and disease resistance. Variety name registrations Lisard, Thieye, Leona, Kelle and Sam.

F. Professional Recognition, Awards, and Accomplishments

Estevez de Jensen, Consuelo received an USDA/ARS Certificate of Appreciation for outstanding efforts to characterization of bean germplasm for enhanced BNF and root rot response for Feed the Future countries in support of the Feed the Future Grain Legumes Project, South Africa, July 1 2015.

Estévez de Jensen, Consuelo. The College of Agriculture of the University of Puerto Rico– Mayaguez presented a **Certificate of Recognition for Excellence in Research, Creativity and therefore, enrichment of the campus research**. Presented on the 9th day of May of 2014 in Mayaguez, Puerto Rico.

Estévez de Jensen, Consuelo. The Puerto Rican Scientific Society Annual Meeting (SOPCA) awarded the 1st Place **Professional Oral Presentation Award Winner**. Presented at the 38th Annual Meeting SOPCA on the 2nd day of November of 2013. Guayanilla, Puerto Rico. Title of the Presentation “Inoculant Production in Haiti.”

Kelly, J.D., received Meritorious Achievement Award from the Legume Innovation Lab, Michigan State University, 2014, and the Ralph H. Smuckler Award for Advancing International Studies and Programs, Michigan State University, 2014.

Rosas, Juan Carlos received the 2014 Gamma Sigma Delta Distinguished Achievement in Agriculture Award.

Rosas, Juan Carlos received the 2015 AGEAP (Zamorano Alumni Association) recognition for his contributions to Pan-American agriculture and Zamorano University.

The University of Puerto Rico Bean Research Team (**Consuelo Estevez, Mildred Zapata, and James Beaver**) received a recognition for “Outstanding Dedication and Contribution to Research and

Innovation Endeavors during 2014–2015” at the Research and Innovation as Accelerators of New Opportunities in Puerto Rico symposium held in Mayaguez Puerto Rico Campus on 15 May 2015.

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