

CURRICULUM VITAE (January 2019)

Ghislain Tèpa-Yotto

PROFILE

I am a holder of a PhD degree in Plant Science/Plant Health-Plant Protection obtained at the Norwegian University of Life Sciences (NMBU) under the framework of an Integrated Pest Management (IPM) in Horticulture project in Benin, funded by the Research Council of Norway. Primarily agricultural engineer, professional background encompasses research for development for plant health. Philosophical interest relates to holistic approach as foundation for developing and delivering innovative and sustainable solutions for food security. I am originally a senior lecturer at the National University of Agriculture (UNA-Benin) and currently work for IITA as Visiting Scientist and Coordinator of the Biorisk Management Facility (BIMAF). During the past decade I have been instrumental to build-up strategic networks and to catalyze enhanced collaboration for national and farmer adaptation to climate change. Special focus links to Invasive Species management and development of digital agriculture including Early Warning and Rapid Response tools under a Climate Smart Agriculture approach. Present activities comprise the lead of Integrated Pest Management Worskstreams within the projects 'Climate Smart Agricultural Technologies for improved Rural Livelihoods and Food Security in Mali and Niger', funded by the Embassy of Norway in Mali. I have good oral and written communication skills in French and English.

BIOGRAPHICAL DATA

Name: Ghislain T. Tèpa-Yotto
Sex: Male
Nationality: Beninese
Marital status: Married, two children
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ACADEMIC QUALIFICATIONS

2013: PhD in Plant Science/Plant Health-Plant Protection, Department of Plant and Environmental Sciences, Norwegian University of Life Sciences NMBU (www.nmbu.no), Norway. Dissertation entitled: '*Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Braconidae, Aphidiinae) in Benin: its potential as a biological control agent for integrated aphid management in vegetable systems'.

2009: Master of Science, Department of Plant Genetic Resources and Crop Protection, University of Abomey-Calavi, Benin. Thesis entitled: ‘Aphid species and their natural enemies in vegetable systems in Benin’.

WORK EXPERIENCE

2017-present: Coordinator of the Biorisk Management Facility (BIMAF/IITA-Benin).

2015-present: Lecturer at the National University of Agriculture (UNA-Benin).

2007-2014: Consultancy work for the development of biologically-based Integrated Pest Management (IPM) tools in vegetable systems. International Institute of Tropical Agriculture (IITA-Benin).

SHORT TERM ASSIGNMENTS

July 2014-October 2015: Secretary General of the Local Organizing Committee for the 21st conference of the African Association of Insect Scientists (AAIS) in Benin 19-23 October 2015; Theme: “Impacts of climate change on insects in Africa: opportunities and threats”.

November 2014: Trainer for the Regional Seminar on Climate Change for West Africa Forum of Science Journalists and Communicators WAFSJC, 10-12 November 2014, AfricaRice, Abomey-Calavi, Benin. “Impacts of climate change on biotic stresses: IITA contributions in West Africa”.

May 2014: Rapporteur for the first regional workshop on Bioaggressors-Climate change-Agricultural production/productivity. Regional Workshop 5-7 May 2014, Benin Marina Hotel, Cotonou, Benin. International Institute of Tropical Agriculture (Biological Control Centre for Africa, IITA).

CONTRIBUTIONS TO CAPACITY BUILDING

M.Sc. students (supervision)

Alamou, Ben-Ally, 2018. Susceptibility of fall armyworm *Spodoptera frugiperda* (Lepidoptera: Noctuidae) to four exotic strains of SfMNPV. National University of Agriculture, Ketou, Benin.

Goubatin, Eric, 2018. On-station efficacy experiments of biopesticides on *Spodoptera frugiperda* (Lepidoptera: Noctuidae) in a maize seed production scheme. National University of Agriculture, Ketou, Benin.

Tchigossou, Bernard, 2018. Economic impact assessment of fall armyworm *Spodoptera frugiperda* (Lepidoptera: Noctuidae) and effect of three insecticides in a maize seed production scheme. National University of Agriculture, Ketou, Benin.

Olorounto, Abilou Olayiwola, 2012. Study of some biology and morphology aspects of *Ischiodon aegyptus* (Diptera: Syrphidae) and its potential to control *Aphis gossypii* and *Lipaphis erysimi* (Hemiptera: Aphididae). University of Abomey-Calavi, Cotonou, Benin.

- Djivoedo, Olalékan Zulkifl, 2012. Effect of combination of *Lysiphlebus testaceipes* Cresson (Hymenoptera: Aphidiidae) or *Cheilomenes propinqua* Mulsant (Coleoptera: Coccinellidae) and reduced doses of pyrethroid insecticide for integrated management of *Aphis gossypii* Glover (Hemiptera: Aphididae). University of Abomey-Calavi, Cotonou, Benin.
- Atindehou, Rodrigue M, 2012. Study of biology and life table parameters of *Aphis gossypii* Glover (Hemiptera: Aphididae) on *Abelmoschus esculentus* L., *Capsicum annum* L., *Commelina benghalensis* L., *Cucurbita pepo* L. and *Cucumis sativus* L. University of Abomey-Calavi, Cotonou, Benin.
- Yoa, Mario Yombo, 2008. Study of the biology and life table of *Aphis gossypii* on sweet pepper and the African garden eggplant. University of Abomey-Calavi, Cotonou, Benin.
- Leclercq, Segolene, 2008. Inventory of aphids and their associated natural enemies on vegetable crops in Benin. École Supérieure d'Agriculture d'Angers, Angers, France.

PUBLICATIONS

Book chapter

- Godonou I, Sæthre M-G, Tèpa-Yotto G et al. 2019. Identifying and managing plant health risks for key African crops: vegetables. In: Neuenschwander P, and Tamò M, editors. Critical issues in plant health: 50 years of research in African agriculture. Burleigh Dodds Series in Agricultural Science, *in press*.

Publications in international refereed journals

- Hofsvang, T., Godonou, I., Tèpa-Yotto, G.T. & Sæthre, M.-G. 2014. The native hyperparasitoid complex of the invasive aphid parasitoid *Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Braconidae, Aphidiinae) in Benin, West Africa. *International Journal of Tropical Insect Science* 34: 9-13. doi: 10.1017/S1742758413000428
- Tèpa-Yotto, G.T., Hofsvang, T., Godonou, I., Tchibozo, I. & Sæthre, M.-G. 2013. Host instar suitability of *Aphis gossypii* (Hemiptera: Aphididae) for *Lysiphlebus testaceipes* (Hymenoptera: Braconidae) and parasitism effect on aphid life table. *Applied Entomology and Zoology* 48: 447-453. doi: 10.1007/s13355-013-0203-5
- Tèpa-Yotto, G.T., Hofsvang, T., Godonou, I., & Sæthre, M.-G. 2013. *Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Braconidae, Aphidiinae), an alien species to Benin (West Africa). *Benefits and Risks of Exotic Biological Control Agents IOBC-WPRS Bulletin* 94: 83-86
- Tèpa-Yotto, G.T., Hofsvang, T., Godonou, I. & Sæthre, M.-G. 2013. Host preference of *Lysiphlebus testaceipes* (Hymenoptera: Braconidae) an alien aphid parasitoid in Benin. *International Journal of Tropical Insect Science* 33: 127-135. doi:10.1017/S1742758413000052

Sæthre, M.-G., Godonou, I., Leclercq, S., Tèpa-Yotto, G.T. & James, B. 2011. Assessment of aphid ecology in vegetable systems and potential for biological control agents. *Acta Horticulturae* 911: 227-230

Sæthre, M.-G., Godonou, I., Hofsvang, T., Tèpa-Yotto, G.T. & James, B. 2011. Aphids and their natural enemies in vegetable agroecosystems in Benin. *International Journal of Tropical Insect Science* 31: 103-117. doi:10.1017/S1742758411000191

Dissertation & Thesis

Tèpa-Yotto GT 2013. *Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Braconidae, Aphidiinae) in Benin: its potential as a biological control agent for integrated aphid management in vegetable systems. Philosophiae Doctor thesis, Department of Plant and Environmental Sciences (IPM), Norwegian University of Life Sciences (UMB), 182 pp. Thesis number 2013:41, ISSN 1503-1667, ISBN 978-82-575-1142-5

Tèpa-Yotto GT 2009. Aphid species and their natural enemies in vegetable systems in Benin. MSc thesis, Department of Plant Genetic Resources and Crop Protection, Faculty of Agronomic Sciences, University of Abomey-Calavi (Benin), 39 pp

Tèpa-Yotto GT 2007. Effect of various botanical and fungal pesticides on *Lipaphis erysimi* (Hemiptera: Aphididae) and *Plutella xylostella* (Lepidoptera: Plutellidae) two key cabbage pests. BSc thesis, Department of Plant Production, Faculty of Agronomy, University of Parakou (Benin), 86 pp

Some relevant papers and presentations at international and national conferences, workshops, seminars (some of which are published in international journals, proceedings)

Tèpa-Yotto G.T. 2017. Fall Armyworm Biocontrol. FAO workshop on Farmer Field Schools curriculum development 21-25 July 2017, Swiss Spirit Hotel, Accra, Ghana.

Tèpa-Yotto G.T. 2017. Maize IPM in Benin: past, present and future. FAO workshop on World Experiences and Best Practices for Fall Armyworm Management in Africa: South-South Technical Cooperation Meeting 18-20 July 2017, Kempinski Hotel, Accra, Ghana.

Tèpa-Yotto G, Tamò M, Goergen G, Djouaka R, Kumar L, Bandyopadhyay R, Sæthre M-G. 2017. Developing and deploying biological control and bio-pesticide solution to fight biotic stresses under climate change scenario. ECOWAS joint workshop to develop a Regional Plant Pest and Disease Prevention, Surveillance and Mitigation Framework 5-7 June 2017, Swiss Spirit Hotel, Accra, Ghana.

Winsou J, Tèpa-Yotto G, Adandonon A, Houssou G, Goergen G, Tamò M, 2017. Assessment of maize damage by the invasive alien fall armyworm *Spodoptera frugiperda* in Ketou (Benin): First report of parasitic *Hexameris albicans* and prospects for biocontrol. Submitted for Presentation at

- the 23th Conference of African Association of Insect Scientists (AAIS), 23-26 October 2017, Sudan.
- Winsou J and Tèpa-Yotto G 2015. Insects as alternative protein source in Benin: a review. The 22nd Conference of African Association of Insect Scientists (AAIS), 19-23 October 2015, Benin. Presentation, book of abstracts: 24.
- Tèpa-Yotto G and Winsou J 2015. Farming crickets as food and feed in Benin: promises and challenges. The 22nd Conference of African Association of Insect Scientists (AAIS), 19-23 October 2015, Benin. Presentation, book of abstracts: 25.
- Tèpa-Yotto G.T., Tamò M., Toko M. 2014. Impacts of climate change on bioagressors: International Institute of Tropical Agriculture IITA contributions in West Africa. Regional Seminar on Climate Change for West Africa Forum of Science Journalists and Communicators WAFSJC, 10-12 November 2014, AfricaRice, Abomey-Calavi, Benin. Oral presentation.
- Douro-Kpindou O-K, Tèpa-Yotto G.T. 2014. Report of the first regional workshop on Bioagressors-Climate change-Agricultural production/productivity. Regional Workshop 5-7 May 2014, Benin Marina Hotel, Cotonou, Benin. International Institute of Tropical Agriculture (Biological Control Centre for Africa, IITA).
- Tèpa-Yotto G.T. 2014. Promises for biologically-based IPM on NUS: a case example for aphid control on amaranth in Benin. First Benin National Workshop on NUS- Neglected and Underutilized Species. 27-28 February 2014, Abomey-Calavi, Benin. Presentation, book of abstracts: 7.
- Sæthre M-G, Tèpa-Yotto GT & Hofsvang T 2013. *Lysiphlebus testaceipes*, invasive alien species (IAS), beneficial organism, or both? The second international congress on biological invasions (ICBI 2013) – Biological invasions, Ecological safety and Food security. 23-27 October 2013, Qingdao, Kina. Presentation, book of abstracts: 136.
- Tèpa-Yotto, G.T. Hofsvang, T. Godonou, I. & Sæthre, M.-G. 2012. *Lysiphlebus testaceipes* (Cresson), an alien species to Benin (West-Africa). Bioforskkonferansen, Gardermoen, Norway, 6-7 Feb. 2012. Poster. Bioforsk Fokus 7-2:221.
- Tèpa-Yotto, G.T. Hofsvang, T. Godonou, I. & Sæthre, M.-G. 2011. A review of the distribution, biology, aphid hosts, and use of *Lysiphlebus testaceipes* (Cresson) Hymenoptera: Braconidae, Aphidiinae) in biocontrol. IOBC/WPRS Working Group “Benefits and risks associated with exotic biological control agents” 30 October-3 November 2011. Hluboka, Czeck Republic. Presentation, book of abstracts: 29.
- Sæthre M-G, Godonou I, Coulibaly O, Hofsvang T, Tèpa-Yotto GT 2011. Integrated Pest Management (IPM) in urban and peri-urban horticulture in Benin (2007–2011). Biological Control Centre for Africa, IITA Benin Station, Cotonou, Benin, and Bioforsk, Ås, Norway.

- Sæthre M-G, Hofsvang T, Godonou I, Tapa-Yotto GT 2010. Invasive parasitoids and native hyperparasitoids: a study from vegetable agro-ecosystems in Benin, West Africa. In: Proceedings of the 7th International Symposium on Ecology of Aphidophaga, Perugia, Italy, 19–24 September 2010:87.
- Sæthre, M.-G. Hofsvang, T. Godonou, I. & Tapa-Yotto, G.T. 2010. Invasive parasitoids and native hyperparasitoids: a study from vegetable agro-ecosystems in Benin, West Africa. International Symposium Ecology of Aphidophaga 11. 19-24 September 2010, Perugia, Italy. Presentation, proceedings.
- Sæthre, M.-G., Godonou, I., Leclercq, S., Tapa-Yotto, G.T. & James, B. 2009. Assessment of aphid ecology in vegetable systems and potential for biological control agents. 1st All Africa Horticulture Congress 31 august-3 September 2009, Nairobi, Kenya. Presentation, abstract, proceedings.