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FRANKLIN N. NYABUGA

Name: Franklin N. Nyabuga

Title/Qualification: Doctorate

Position: Lecturer

Department: Biological Sciences

School: School of Pure and Applied Sciences

Area of Specialization: Entomology

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Short Biography

Holds a PhD from Friedrich-Schiller University in Jena - Germany, a Master in Crop protection and Bachelor of Science (Agriculture Education and Extension) both from Egerton University, Njoro. For both Masters and PhD theses, I investigated various aspects of arthropod biology including population genetics, evolution, behavior and ecology. Also held two postdoctoral positions in Sweden at Lunds University and Swedish University of Agricultural Sciences - Alnarp, and researched on insect olfaction and communication, biodiversity and conservation.

Research Interests

Insect – Plant interactions, Insect – Insect interaction, Insect communication, ecology, evolution, biodiversity and conservation.

Publications in Journals:

Larsson MC, Harvey D, Burman J, Svensson GP, Winde I, **Nyabuga FN**, Andersson K, Musa N, Forsmark B, Jansson N, Westerberg L, Andersson F, Hedenstrom E, Bergman KO, & Milberg P. (2015) Pheromone-based monitoring: a game changer for saproxylic insect conservation. *Antenna*.

Nyabuga FN, Carrasco D, Ranåker L, Andersson MN, Birgersson G, Larsson MC, Lundin O, Rundlöf M, Svensson GP, Anderbrant O & Lankinen Å (2015) Field abundance patterns and odor-mediated host choice by clover seed weevils, *Apion fulvipes* and *A. trifolii* (Coleoptera: Apionidae). *Journal of Economic Entomology*. 108: 492-503

Nyabuga FN, Loxdale HD, Heckel DG, Weisser WW (2012) Coevolutionary fine tuning: evidence for genetic tracking between a specialist wasp parasitoid and its aphid host in a dual metapopulation interaction. *Bulletin of Entomological Research*. 102: 149-155

Nyabuga FN, Vökl W, Schwörer U, Weisser WW & Mackauer M. (2012) Mating strategies in solitary aphid parasitoids: effect of patch residence time and ant attendance. *Journal of Insect Behavior*. 25: 80-95.

Loxdale HD, Schöfl G, Wiesner KR, **Nyabuga FN**, Heckel DG & Weisser WW. (2011) Stay at home aphids: comparative spatial and seasonal metapopulation structure and dynamics of two specialist tansy aphid species studied using microsatellite markers. *Biological Journal of the Linnean Society*. 104: 838–865.

Nyabuga FN, Loxdale HD, Heckel DG & Weisser WW. (2011) Temporal genetic structuring of a specialist parasitoid, *Lysiphlebus hirticornis* Mackauer (Hymenoptera: Braconidae) attacking a specialist aphid on tansy. *Biological Journal of the Linnean Society*. 102: 737–749.

Nyabuga FN, Loxdale HD, Heckel DG and Weisser WW. (2010). Spatial population dynamics of a specialist aphid parasitoid, *Lysiphlebus hirticornis* Mackauer (Hymenoptera: Braconidae: Aphidiinae): evidence for philopatry and restricted dispersal. *Heredity*. 105: 433-442.

Nyabuga FN, Outreman Y, Simon J-C, Heckel DG, and Weisser WW (2010). Effects of pea aphid secondary endosymbionts on aphid parasitoid *Aphidius ervi*: a correlative study. *Entomologia Experimentalis et Applicata*. 136: 243-253.

Nyabuga FN, Loxdale HD, Sharbel TF, Todd M, Weisser WW (2009). Microsatellites from *Lysiphlebus hirticornis* Mackauer (Hymenoptera: Braconidae), a specialist primary parasitoid attacking the specialist tansy aphid, *Metopeurum fuscoviride* Stroyan (Hemiptera: Aphididae). *Molecular Ecology Resources*. 9: 931-934.

Loxdale HD, **Nyabuga FN**, and Weisser WW (2008). The 'Cake on the plate' syndrome... and how specialist tansy aphids avoid extinction by hungry predators and parasitoids: insights from the use of polymorphic micro-satellite markers. In Rossing W, ed. Landscape Management for Functional Biodiversity. Bordeaux, France IOBC/wprs Bulletin, 61-64.

Presentation of Papers at Academic and Professional Conferences

AVDRC, The World Vegetable centre in Tainan - Taiwan. (2016). Presented a seminar entitled "*Field abundance patterns and host choice by clover seed weevils*"

International Society of Chemical Ecology in Stockholm - Sweden. (2016). Presented a poster entitled "*Clover seed weevils: Flowers for the females*".

Deutsche Gesellschaft für allgemeine und angewandte Entomologie (DGaaE) in Göttingen - Germany. (2009). Presented a talk on "*The good life and hard times of Lysiphlebus hirticornis*"

International Foundation for Sustainable Development in Africa and Asia conference in Göttingen - Germany. (2007). Presented a poster entitled "*Effect of aphid secondary symbionts on resistance against parasitoids*"

Books/Book Chapters Published

Nyabuga F. (2008). *Sustainable Management of Cabbage Aphid and Bagrada Bugs: case study from Kenya*. VDM Verlag. ISBN 10: 3639087100 / ISBN 13: 9783639087109