

Luiz Fernando Gonçalves Zanfelicci

PhD student

Hungarian University of Agriculture and Life Science (MATE)
Faculty of horticultural Sciences
Doctoral school of Horticultural Sciences
Department of Entomology



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PhD Research Topic

Surveying the *Dysaphis devectora* species complex (Hemiptera: Aphididae) in primary and secondary hosts in Hungary

Supervisors: Dr. Viktor Markó, Dr. Zsuzsanna György

Language Knowledge

- Portuguese (Native)
- English (Certified B2 – Full master's degree held in English)
- French (Certified A1)
- Italian (Not certified, Italian descent, basic)
- Spanish (Not certified, Highschool course, basic)

Education and Professional Development

- PhD degree in Horticultural Sciences, Department of Entomology 2020 – Currently
- Master's degree in Agricultural Biotechnology, Szent István University, Budapest, Hungary, 2020.
- Course of Landscaping and gardening, SENAC Faculty, Florianopolis, Brazil, 2018
- Botanical Technical Drawing Course, Botanical Illustration Center of Paraná, Brazil, 2017
- Bachelor's degree in Agronomy, Federal University of Santa Catarina, Florianópolis, Brazil, 2016.
- Course on the identification of mites with emphasis on the Phytoseiidae Family, São Paulo State University, Brazil, 2015
- VIII Winter Agricultural Entomology course, São Paulo State University, Brazil, 2014
- Training and recognition of mesostigmata mites of agricultural importance, Luiz de Queiroz Higher School of Agriculture, Brazil, 2014
- Environmental Expertise Course, Maxambiental treinamentos Ltda, Curitiba, Brazil, 2014

Professional Synopsis

Hungarian Natural History Museum, Department of Zoology, Budapest, Hungary. September 2019 – July 2020. Intern

- Involved in organizing, labeling, and databasing of Entomological collections. Use of database and survey of species obtained from the museum collection.

The Plant Protection Institute, Centre for Agricultural Research of the Hungarian Academy of Sciences, Department of Zoology. August – September 2019. Intern.

- Internship experience. involved in aphid slide mounting and identification.

Agricultural Entomology Laboratory, Federal University of Santa Catarina, FIT department, Florianopolis, Brazil, 2016. Intern

- Involved in the research of the effects of the herbicide Roundup on the survival and dynamics of bees' colonies. Knowledge was gained in the handling of hives and collection of specimens. Extensive experience in the preparation of laboratory solutions for the study of hypopharyngeal glands of bees. knowledge of the morphology of bees and in computer programs coupled to a scanning microscope for laboratory analysis.

Department of Entomology and Acarology, Luiz de Queiroz Higher School of Agriculture, Piracicaba, Brazil, 2015. Intern

- Internship experience. Advanced knowledge was obtained on mite taxonomy and assemblage of mites specimens. With this knowledge, it was possible to continue future projects for tests in conservative biological control plans in important crops.

Agricultural Entomology Laboratory, FIT department, Federal University of Santa Catarina, Florianopolis, Brazil, 2013 – 2014. Intern

- Internship experience. Involved in the survey of natural enemies with emphasis on predator mites of Phytoseiidae family. Extensive knowledge was acquired in entomology, specifically on Acarina fauna. Studies were carried out on the formulation of conservative substances for mites. The collection of specimens with proper practices, assembly, and identification of species was carried out. Extensive study of conservative biological control plans. Aiming the discovery of promising species of pest control in vegetation fields.

Bioprocess Laboratory, MIP department, Federal University of Santa Catarina, Florianopolis, Brazil, 2012 – 2013. Intern

- Internship experience. Involved in performance evaluation of processes of extraction and purification of fungal chitosan.
- During this period, experience was acquired with the handling and formulation of chemical substances; acids; volatile compounds; toxic compounds; carcinogenic substances, and gases. Extensive use of laboratory equipment such as vertical and horizontal laminar flow cabins, autoclaves, bioreactors, and BOD incubators.
- Such activities were extremely important for the gain of experience in the creation of fungal colonies.

Bioprocess Laboratory, MIP department, Federal University of Santa Catarina, Florianopolis, Brazil, 2012 – 2013. Intern

- Internship experience. Involved in research, assembly, and evaluation, especially in projects that sought organisms that produce chitosan (Fungi). Associated responsibilities include handling basic laboratory equipment of microbiology: optical microscopes, magnifying glasses, laboratory glassware, use of chemical reagents, and maintenance of stock levels.

LIST OF SCIENTIFIC WORK, PUBLICATIONS AND PRODUCTIONS

Full paper

- Zanfelicci L.F.G., Muranyi D., György Zs., Markó V. (2021). Distinction and identification of a group of different haplotypes related to the *Dysaphis devectora* species complex (Hemiptera: Aphididae). Lippay János – Ormos

Imre – Vas Károly (LOV) Tudományos. MATE University. Budapest. ISBN 978-615-01-3738-4 * Available in:

https://press.mater.uni-mate.hu/52/1/LOV_proceedings_2021_teljes_2022.pdf

- Zanfelici, L. F. G, Markó, V, Gyorgy, Z. (2019). Surveying the *Dysaphis devectora* species-complex in Hungary. ITT - Ifjú Tehetségek Találkozója (Scientific meeting for young researchers): 330 – 348. ISBN: 978-963-269-886-1 Available in http://itt.budaicampus.szie.hu/sites/default/files/files/ITT_2019_konferencia.pdf
- Zanfelici, L. F. G, Butignol., C. A. (2017). Identification and knowledge of mites associated with *Rubus rosifolius* Smith (Rosacea), with emphasis on the family Phytoseiidae (Mesostigmata), aiming at conservative biological control. institutional repository of UFSC: 1-33. Available in (only abstract in English): <https://repositorio.ufsc.br/handle/123456789/174472>

Abstracts

- Faita, M. R, Zanfelici. L. F. G, Amandio, D.T.T, Orth, A.I, Nodari, R. O. (2022). Morphometric evaluation of the hypopharyngeal glands of nurse bees (*Apis mellifera* L.) exposed to glyphosate-based herbicide under field conditions. I South Brazilian Phytosanitary Meeting (Enfit-sul) : 1- 4. Available in (Only in Portuguese language): https://eventos.uceff.edu.br/eventosfai_dados/artigos/enfit-sul-2020/1295.pdf
- Zanfelici L.F.G., Markó V., György Zs. (2021). Surveying the genetic diversity of *Dysaphis devectora* species complex based on COI barcode region. XXIV. Spring Wind Conference. Miskolc University. Miskolc. 99 – 100. Available in: https://dosz.hu/doc/dokumentumfile/2021/dosz_tszk_2021_absztraktozet.pdf
- Zanfelici, L. F. G, Butignol., C. A. (2014). Occurrence of Phytoseiidae in *Rubus rosaefolius* Smith, aiming at the conservation of predatory mites. XXV National Congress of Entomology, Goiania, Brazil. 86. Available in (Only Portuguese language): <https://pt.calameo.com/read/0062708880bd2d84f4447>
- Zanfelici, L. F. G, Cardoso, D (2012). Coupling evaluation of two processes for extraction and purification of different fungal polysaccharides. 22th Seminar of Scientific Initiation of UFSC, Florianopolis, Brazil.

Awards

- 1st Place Award for the best work presented in the Horticulture sub-session, Agrarian Sciences section, during the XXIV Spring Wind Conference, Miskolc University. (2021). Available in:

https://dosz.hu/doc/konferencia/TSZK_2021_helyezesek.pdf?time=1622790713689

Other productions and participations

- Zanfelici, L. F. G. Plants and predators for conservative biological control (2016). 2nd urban agriculture workshop. Federal University of Santa Catarina, Florianopolis, Brazil.- (Short-term course, taught)
- Zanfelici, L. F. G. Mobile chicken coop scale model: INCAPER model adapted for laying hens. (2014). Federal University of Santa Catarina, Florianopolis, Brazil.
- Zanfelici, L. F. G. Construction of a bamboo greenhouse for organic tomato production. (2013). City of Irineopolis, Pé da Serra community, Brazil. (Community project)
- Mota, J.P.; Zanfelici, L.F.G. ; Stoffel, S.C.G.; Magnus, C.; Podesta, R.; Moreira, R. P. ; Gomes, C.S.; Pasinato, P. (2012) Meliponiculture: Environmental importance, Economic alternative, and rational breeding. Federal University of Santa Catarina, Florianopolis, Brazil. (Development of didactic instructional material).
- XI Agroecology Conference (2012). Londrina, Brazil.
- Sigmplot Course (2011). Bioprocess Laboratory, MIP department, Federal University of Santa Catarina, Florianopolis, Brazil
- V State Seminar on Agroecology of Santa Catarina (2010). São Miguel do Oeste, Brazil.