

CURRICULUM VITAE

HUNG XUAN BUI

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EDUCATION

Ph.D. Nematology/Plant Pathology	University of Illinois at Urbana-Champaign, USA	May 2019
M.Sc. Agriculture	Szent Istvan University, Hungary	June 2012
B.Sc. Agronomy	Can Tho University, Vietnam	May 2009

PUBLICATIONS

- **Bui, H. X.***, and Desaeger, J. A. 2021. Host suitability of summer cover crops to *Meloidogyne arenaria*, *M. enterolobii*, *M. incognita* and *M. javanica*. *Nematology*, 1(aop), 1-9.
- Gu, M*., **Bui, H.X***, Ye, W. and Desaeger, J.A. 2021. First report of *Meloidogyne enterolobii* on sweet potato in Florida, USA. *Nematropica*.
- **Bui, H.X.*** and Desaeger, J.A. 2021. Efficacy of non-fumigant nematicides against *Meloidogyne javanica* as affected by soil temperature under pasteurized and natural soil condition. *Pest Management Science*, 77(7): 3179-3186. <https://doi.org/10.1002/ps.6355>.
- **Bui, H.X*** and Desaeger, J.A. 2021. Volatile compounds as potential bio-fumigants against plant-parasitic nematodes – A mini-review. *Journal of Nematology* 53:1-12. <https://doi.org/10.21307/jofnem-2021-014>.
- Gu, M*., **Bui, H.X***, Ye, W. and Desaeger, J.A. 2021. First report of *Meloidogyne enterolobii* on Thai basil in Florida, United States. *Plant Disease*. <https://doi.org/10.1094/PDIS-02-21-0293-PDN>.
- Nguyen, V. T, Yu, N. H., Lee, Y., Hwang, I. M, **Bui, H. X.**, and Kim, J. C. 2021. Nematicidal Activity of Cyclopiazonic Acid Derived from Penicillium Commune Against Root-Knot Nematodes and Optimization of the Culture Fermentation Process. *Frontiers in Microbiology* (accepted in October 2021).
- **8 Plant Disease Management Reports 2021** on the evaluation of novel nematicides to control plant-parasitic nematodes on vegetables and strawberry (Plant Disease Management Reports, Volume 15, 2021. <https://www.plantmanagementnetwork.org/pub/trial/search.aspx?vol=volume15>).
- **Bui, H. X.**, Hadi, B. A., Oliva, R., and Schroeder, N. E. 2020. Beneficial bacterial volatile compounds for the control of root-knot nematode and bacterial leaf blight on rice. *Crop Protection*, 135, 104792.
- **Bui, H.X.**, and Schroeder, N.E. 2018. Post-embryonic Ventral Nerve Cord Development and Gonad Migration in *Steinernema carpocapsae*, *Journal of Nematology* 50(1): 27-32, doi: 10.21307/jofnem-2018-005.

- Balog, E., **Bui, H. X.**, Túróczi, G., and Kiss, J. 2013. Efficacy of biological control agents for the control of western corn rootworm. *IOBC-WPRS Bulletin*, 90, 33-36.
- ❖ **Extension papers:**
- Gu, M., **Bui, H. X.**, and Desaeger, J.A. 2021. Nematodes: Hidden Enemies of Asian Vegetable Growers in Florida. <https://vscnews.com/nematodes-hidden-enemies-of-asian-vegetable-growers-in-florida/>
- **Bui, H.X** and Desaeger, J.A. 2020. Nematode Management in Florida Organic Strawberries. Part 1- – Organic Nematicides and Varieties. UF/IFAS Research. <https://member.floridastrawberry.org/wp-content/uploads/2020/08/FSREF-2019-20-Desaeger-Organic-Nematicides.pdf>
- ❖ **Featured Creature: Bui, H.X.***, Oliveira, C.J, Schoreder, N.E, and Desaeger, J.A. 2021. Rice root-knot nematode (*Meloidogyne graminicola*). Featured Creatures, University of Florida. Access July 2021. https://entnemdept.ufl.edu/Creatures/NEMATODE/rice_root_knot_nematode_Meloidogyne_graminicola.htm

ORAL & POSTER PRESENTATION

❖ ORAL

- **Bui, H.X***. Gu, M., and Desaeger, J.A. 2021. A nematode survey on Asian vegetable farms in Central Florida. SON Meeting, Alabama, Sep 12-15, 2021. <https://nematologists.org/resources/Documents/SON%202021/SON%20Program%20final%20pdf%20-%20Gulf%20Shores%202021%20-%2030%20Aug%20%202021%20final.pdf>
- Desaeger, J.A, and **Bui, H.X**. 2021. Chloropicrin fumigation on the first crop increases root-knot nematode damage on cucurbit double crops. SON Meeting, Alabama, Sep 12-15, 2021.
- **Bui, H.X**. 2018. Bacterial volatile organic compounds for the control of root-knot nematode and bacterial blight on rice. Seminar Series at Department of Crop Sciences, University of Illinois at Urbana Champaign. 11/07/2018.

❖ POSTER

- Gu, M*, **Bui, H.X***, and Desaeger, J.A. 2021. Root-knot nematode survey of Asian vegetable farms in Hillsborough County, Florida. APS Plant Health 2021.
- Riva, Gabrieli, **H.X. Bui**, M. Gu, and J.A. Desaeger. 2021. Distribution of root-knot nematodes in Florida with the focus on *Meloidogyne enterolobii*. SON Meeting, Alabama, Sep 12-15, 2021.
- **Bui, H.X** and Desaeger, J.A. 2020. Host suitability of summer cover crops to four root-knot nematode species (*Meloidogyne* spp.) in Florida. Society of Nematology Virtual Meeting, December 2020.
- Desaeger, J. A., **Bui, H. X.**, Hansen, K., Noling, J., and Watson, T. 2020. The Final Push for Grower Adoption of Non-Fumigant Nematicides in Florida Strawberry and Vegetables. 2020 MBAO: Fumigation and Alternatives for Production, Storage and Trade Conference (Virtual meeting).
- **Bui, H.X**, Roman-Reyna. V, Hadi. B.A., Oliva. R.F. and Schroeder. N.E. 2018. Beneficial bacteria might employ multiple mechanisms to control above- and below-ground pathogens in rice. International Rice Congress, Singapore, October 15-17th, 2018.

- **Bui, H.X**, Hadi. B.A., Oliva. R.F. and Schroeder. N.E. 2018. Microbial volatile organic compounds to control *Meloidogyne graminicola* in rice. Plant Sciences Symposium, International Rice Research Institute, Philippines, August 17th, 2018.
- Nguyen, D. T., **Bui, H. X.**, Almazan, M. L., and Hadi, B. A. 2018. Selective pathogenicity of entomopathogenic fungi species on brown planthopper (Hemiptera: Delphacidae) and its natural enemies under a controlled environment. Plant Sciences Symposium Series, International Rice Research Institute, the Philippines, August 17th, 2018.
- **Bui, H.X**, Balog. E, Szalai. M, Kiss. J and Turoczi. GY. 2012. A promising bio-control agent in sustainable management of Western Corn Rootworm (*Diabrotica virgifera virgifera*). The 7th Vietnamese-Hungarian international conference on Agricultural Research for Development, Can Tho, Vietnam, 28th August 2012.

RESEARCH EXPERIENCE AND SKILLS

- Conducted various testing methods for pesticide and nematicide efficacy evaluation in the field, greenhouse, and laboratory conditions on insects, pathogens, and nematodes on rice, vegetable and fruit crops in tropics and subtropics.
- Work experience with annual and perennial crops (rice, tomato, and vegetables, strawberries, walnut, almond, etc.).
- Implemented experimental design in the field, greenhouse, and laboratory experiments.
- Diagnosed and identified plant-parasitic nematodes on different crops morphologically and molecularly.
- Experimented and molecularly analyzed plant-microbe interaction against rice insects, rice pathogens, and plant-parasitic nematodes.
- Cultured a diversity of microbes such as entomopathogenic fungi, beneficial bacteria, and entomopathogenic nematodes and rearing both harmful and beneficial insects.
- Experienced in microbial identification by DNA sequencing.
- Experienced in molecular techniques such as DNA/RNA extraction, PCR, qPCR, and familiar with RNAseq analysis.
- Advance user of SAS for univariate analysis (ANOVA, Probit, Logit, Linear regression, etc.) and familiar with multivariate analysis (Principal Component Analysis, Factor Analysis, Cluster Analysis, etc.), descriptive statistics, and data visualization.
- Working on multidisciplinary collaborations.
- Critically interpret research results and communicate research results to various audiences.
- Presented results in scientific conferences and meetings.
- Wrote manuscripts for publication and peer-reviewed submitted manuscript scientific journals such as Journal of Nematology, Plant Disease, Nematopica.

PROFESSIONAL EXPERIENCE

- **Biological Scientist III** at University of Florida Gulf Coast Research and Education Center, Wimauma, Florida (**2021-Present**).
- **Postdoctoral Research Associate** at University of Florida Gulf Coast Research and Education Center, Wimauma, Florida (**2020-2021**).

- **Staff Research Associate 1** at Department of Nematology, University of California, Riverside, Kearney Agricultural and Research Extension Center, Parlier, CA (**2019-2020**).
- **Research Assistant/Ph.D Researcher** at Department of Crop Sciences, University of Illinois at Urbana Champaign (**2014-2016 and 2018-2019**).
- **Ph.D Scholar** at International Rice Research Institute, the Philippines (**2017-2018**).
- **Master Researcher** at Institute of Plant Protection, Szent Istvan University, Hungary (**2010-2012**).
- **Researcher** at Department of Plant Protection, Can Tho University, Vietnam (**2009-2010 and 2012-2014**).

GRANTS AND FELLOWSHIPS ACHIEVED

- **Co-Principal Investigator** on the project (\$31,805) from **September 2021 – September 2022**: “Integrated Nematode Management Programs for Organic Strawberry Production in Florida” funded by Florida Strawberry Research Education Foundation, Inc.
- **Co-Principal Investigator** on the project (\$234,495) from **2020 - 2022**: “In-home stretch: implementation and grower adaptation of non-fumigant nematicides in plasticulture” funded by USDA-NIFA.
- **Lee Foundation Rice Research Scholarship for Ph.D program** from August 2014 - May 2019 (approximately \$2000/month from August 2014 – December 2016 and September 2018 – May 2019 at **University of Illinois at Urbana Champaign** and \$1000/month from January 2017 – August 2018 at **International Rice Research Institute**, the Philippines).
- **Travel grant (\$1000)** from the RICE-CRP to present a poster at **International Rice Congress in Singapore**, October 15-17, **2018**.
- **Travel bursary to attend “Working with Pathogen Genomes – Vietnam 2017”** from 11-17th December 2017 organized by **Wellcome Genome Campus – Advanced Courses**.
- **FAO-Hungarian Government Scholarship** from September 2010 – June 2012 with \$300/month.
- **The principal investigator** for the research grant from **Can Tho University** (\$3000) from 2014 – 2015 with the project: “The adaptability of *Metarhizium anisopliae* under harsh temperatures and UV light conditions and the synergism of *M. anisopliae* and insecticides in the control of brown planthopper and armyworm”.

TEACHING EXPERIENCE

- High school tutor in Mathematics and Physics, Can Tho City, Vietnam (2004 – 2010 and 2012 - 2014).
- Obtained a “**Certificate of teaching methodology for advanced education**” at College of Education, Can Tho University, Vietnam (2012).
- Teaching assistant in **Introductory Agricultural Entomology** (2013-2014), in **Grain-stored Insects** (2010 and 2013), in **Introduction to Pesticides** (2009-2010).
- Interpreter of “**Biological control of insects**” advanced course for graduate students (2014, translate English into Vietnamese).

- Conducted **training workshops** (2009-2010) for farmers to conduct the **mass-production of entomopathogenic fungi** at their household to **control brown planthoppers** at 13 provinces in the Vietnamese Mekong Delta with more than **500 farmers** participated.
- Mentorship five undergraduate students to conduct their BSc. Research theses at Department of Plant Protection, College of Agriculture, Can Tho University, Vietnam (2009-2010 and 2012 – 2014).
- Mentorship one undergraduate student at the Department of Crop Sciences, University of Illinois at Urbana Champaign, Illinois (2014 – 2015).
- Mentorship four interns and Master student from Honduras, Ecuador, Columbia and Brazil at the University of Florida Gulf Coast Research and Education Center, Wimauma, Florida (2020 - present).

ORGANIZATIONAL SKILLS

- Member of the organization committee of the first “Plant Sciences Symposium” at International Rice Research Institute, Philippines, 2018.
- Crop Sciences Graduate Organization’s Agronomy Day Representative at the Department of Crop Sciences, University of Illinois at Urbana Champaign, 2014.
- Secretary for the symposium: “ Integrated pest management of Citrus Flower Moth (*Prays citri*) on Pomelo in the Vietnamese Mekong Delta”, 2013.
- Organized training and workshops at farmers’ fields.
- Membership of Society of Nematologists (2018-present)

REFERENCES

➤ Assistant Professor Johan A. Desaegeer

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➤ Associate Professor Nathan E. Schroeder

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➤ Dr. Buyung Hadi

Agricultural officer (IPM), FAO, Plant Production and Protection Division, Rome, Italy. Former IRRI Representative for Cambodia, Entomology Scientist, International Rice Research Institute, Los Baños, Laguna, Philippines

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➤ **Dr. Ricardo Oliva**

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