



*Curriculum Vitae*  
**HUYNH PHUOC MAN**

**Education:**

- 2014-2018 University of Missouri, Ph.D. Plant, Insect and Microbial Sciences, 2018.  
2008-2010 Can Tho University (VN), M.Sc. Plant Protection, 2010.  
2003-2008 Can Tho University (VN), B.S. Agronomy, 2008.

**Experience:**

- 2011-present Faculty, Department of Plant Protection, Can Tho University.  
2018-present Postdoctoral Research Associate, Division of Plant Science & Technology, University of Missouri.  
2008-2010 Researcher, Department of Plant Protection, Can Tho University.

**Professional Service:**

- 2020-present Peer reviewer of manuscripts from different journals including Agriculture, Agronomy, Applied Sciences, Biological Control, BMC Genomics, Crop Protection, Genes, Insects, Toxics.  
2020-2022 Guest Editor for Insects.

**Research Interests:**

Insect nutrition, metabolomics, transcriptomics, toxicology, artificial diet development, corn rootworm resistance management.

**Grants:**

- Improving the formulation of an artificial diet for rearing *Philornis downsi*. Charles Darwin Foundation/ International Atomic Energy Agency (IAEA). Role: Co-PI, 2022-2023. \$22,000.  
Screening toxins for efficacy against Bt resistant and susceptible western corn rootworm larvae on diet overlay toxicity assays. Syngenta Crop Protection Inc. Role: Co-PI, 2022-2023. \$64,000.  
Study on rearing conditions and effect of insecticides on development of larval parasitoid *Microplitis manilae*, a parasitoid of common cutworm. Can Tho University. Role: PI, 2013. \$2,500.  
Isolation, identification and effectiveness of asarone on root of *Acorus* sp. to control some insect species and *Phytophthora* sp. Can Tho University. Role: Co-PI, 2012, \$3,000.

**Awards and Recognitions:**

- 2018-2022 Postdoctoral Fellowship, University of Missouri.  
2019-2020 Postdoctoral Research Award Winner, University of Missouri.  
2017-2018 Douglas D. Randall Young Scientists Development Fund, University of Missouri.  
2017 Puttler-Hostetter Grant in Entomology, University of Missouri.  
2016 Adams-Meiner Doctoral Scholarship Award, University of Missouri.

2016-2018 Ph.D. Fellowship, University of Missouri.  
2014-2016 Ph.D. Fellowship Award, Vietnam's Ministry of Education and Training.

### Refereed Publications:

- Huynh, M. P.**, B. E. Hibbard, K. -V. Ho, and K. S. Shelby. 2022. Toxicometabolomic profiling of resistant and susceptible western corn rootworm larvae feeding on Bt maize seedlings. *Scientific Reports*. 12(1):1-13 (<https://www.nature.com/articles/s41598-022-15895-z>).
- Jabeur, R., V. Guyon, S. Toth, A. E. Pereira, **M. P. Huynh**, *et al.* 2022. A novel binary pesticidal protein from *Chryseobacterium arthrosphaerae* controls western corn rootworm by a different mode of action to existing commercial pesticidal proteins. *PLoS ONE* (in press).
- Huynh, M. P.**, C. Nielson, B. W. French, D. C. Ludwick, R. W. Geisert, A. E. Pereira, J. Barry, L. N. Meihls, S. K. Schneider, B. E. Hibbard. 2021. Development of a non-diapausing strain of northern corn rootworm with rearing techniques for both diapausing and non-diapausing strains. *Scientific Reports*. 11(1): 1-11 (<https://www.nature.com/articles/s41598-021-97452-8>).
- Huynh, M. P.**, T. A. Coudron, K. S. Shelby. 2021. Recent advances in insect rearing methodology to promote scientific research and mass production. *Insects*, 12(11), 961. (<https://doi.org/10.3390/insects12110961>).
- Huynh, M. P.**, A. E. Pereira, R. W. Geisert, M. Vella, T. A. Coudron, K. S. Shelby, B. E. Hibbard. 2021. Characterization of thermal and time exposure to improve artificial diet for western corn rootworm larvae. *Insects*, 12(9),783. (<https://doi.org/10.3390/insects12090783>).
- Pereira, A. E., **M. P. Huynh**, A. R. Carlson, A. Hasse, R. M. Kennedy, K. S. Shelby, T. A. Coudron, B. E. Hibbard. 2021. Assessing the single and combined toxicity of the bioinsecticide Spear® and Cry3Bb1 protein against susceptible and resistant western corn rootworm larvae (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, toab160. (<https://doi.org/10.1093/jee/toab160>).
- Pereira, A.E., **M.P. Huynh**, A. Sethi, A.L. Miles, B.W. French, M.R. Ellersieck, T.A. Coudron, K. Shelby, and B.E. Hibbard. 2020. Susceptibility of a diapausing strain of northern corn rootworm, *Diabrotica barberi* (Coleoptera: Chrysomelidae) to *Bacillus thuringiensis* traits in seedling, single plant, and diet-toxicity assays. *Journal of Economic Entomology*. 113 (4), 1955-1962. (<https://academic.oup.com/jee/article/113/4/1955/5858459>)
- Huynh, M.P.**, B.E. Hibbard, S.L. Lapointe, R.P. Niedz, B.W. French, A.E. Pereira, D.L. Finke, K.S. Shelby, and T.A. Coudron. 2019. Multidimensional approach to formulating a specialized diet for northern corn rootworm larvae. *Scientific Reports*, 9:3709 (<https://www.nature.com/articles/s41598-019-39709-x>).
- Huynh, M.P.**, E.J. Bernklau, T.A. Coudron, K.S. Shelby, L.B. Bjostad, and B.E. Hibbard. 2019. Characterization of corn root factors to improve artificial diet for western corn rootworm larvae. *Journal of Insect Science*. 9: 19; 1–8 (<https://doi.org/10.1093/jisesa/iez030>).
- Huynh, M.P.**, B.E. Hibbard, M. Vella, S.L. Lapointe, R.P. Niedz, K.S. Shelby, and T.A. Coudron. 2019. Development of an improved and accessible diet for western corn rootworm larvae using response surface modeling. *Scientific Reports*, 9:16009 (<https://www.nature.com/articles/s41598-019-52484-z>).
- Meihls, L.N., **M.P. Huynh**, D.C. Ludwick, T.A. Coudron, B.W. French, K. Shelby, A.J. Hitchon, A.W. Schaafsma, A.E. Pereira, and B.E. Hibbard. 2018. Comparison of six artificial

diets for support of western corn rootworm bioassays and rearing. *Journal of Economic Entomology*. 111: 2727-2733 (<https://doi.org/10.1093/jee/toy268>).

Ludwick, D.C., L.N. Meihls, **M.P. Huynh**, A.E. Pereira, B.W. French, T.A. Coudron, and B.E. Hibbard. 2018. A new artificial diet for western corn rootworm larvae is compatible with and detects resistance to all current Bt toxins. *Scientific Reports*: 8:5379 (<https://www.nature.com/articles/s41598-018-23738-z>).

**Huynh, M.P.**, L.N. Meihls, B.E. Hibbard, S.L. Lapointe, R.P. Niedz, D.C. Ludwick, T.A. Coudron. 2017. Diet improvement for western corn rootworm (Coleoptera: Chrysomelidae) larvae. *PLoS ONE* 12 (11): e0187997 (<https://doi.org/10.1371/journal.pone.0187997>).

L.V. Vang, L.C. Hung, **H.P. Man**, L.T.N. Xuan, 2013. Chemical composition and configuration of asarone in the rhizome extract of “Thuy xuong bo” (*Acorus* sp.). *Can Tho University Journal of Science*. 27: 104-110..

**H.P. Man**, P.T.H. Thuy, L.V. Vang, 2012. Some biological characteristics of *Microplitis manilate* Ash. (Hymenoptera: Braconidae) parasitized larvae of the common cutworm (*Spodoptera litura* FAB.). *Can Tho University Journal of Science*. 21b: 47-53.

#### **Book chapters:**

Morales-Ramos, J. A., M. G. Rojas, T. A. Coudron, **M. P. Huynh**, D. Zou, K. S. Shelby. 2022. Chapter 8: artificial diet development for entomophagous arthropods. In mass production of beneficial organisms (Ed: J. A. Morales-Ramos, G. Rojas, D. I. Sharpiro-Illan). Elsevier Publisher (in press).

**Professional Presentations (2015-2022):** presented 16 oral talks and poster presentations at professional meetings as the presenting author.