

Kanan Saikai (Kutsuwa)

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Profile

I am currently a PhD candidate in the Department of Plant Pathology at the University of Wisconsin-Madison under the supervision of Dr. Ann E. MacGuidwin. I received my M.S. in Plant Nematology at the University of Florida, advised by Dr. Donald W. Dickson. My research is focused on the biology and impact of plant-parasitic nematodes, with projects that range in scale from tissue culture to the field. I am particularly interested in education and extension for growers, with emphasis on risk and yield loss analyses.

Education and Research Interests

The University of Wisconsin-Madison – Fall, 2014 to present

- Plant Pathology PhD
- Advisor: Dr. Ann E. MacGuidwin
- GPA: 3.66
- PhD thesis: Characterizing the significance of *Pratylenchus penetrans* on soybean (*Glycine max* (L.) Merr.).

The University of Florida – Fall, 2012 to Spring, 2014

- Nematology M.S.
- Advisor: Dr. Donald W. Dickson
- GPA: 3.92
- M.S. thesis: Investigation of *Belonolaimus longicaudatus* infecting peanut in Florida.

Hosei Univestiy – Spring, 2008 to Spring, 2012

- Plant Pathology B.S.
- Advisor: Dr. Hiromichi Horie
- B.S. thesis: Characterization of *Colletotrichum* spp., *Phytophthora nicotianae*, and *Corynespora cassicola* on tropical fruits in Hachijo Island, Japan.

Publications

- Saikai, K., Z. A. Handoo, and A. E. MacGuidwin. 2019. First report of the root-lesion nematode, *Pratylenchus fallax*, on soybean in Wisconsin. Plant Disease (submitted).
- Saikai, K., and A. E. MacGuidwin. 2019. First report of the root-lesion nematode, *Pratylenchus alleni*, on soybean in Wisconsin. Plant Disease (submitted).
- Saikai, K., and A. E. MacGuidwin. 2018. Modeling the damage function of *Pratylenchus penetrans* on soybean using a nested error component model. Journal of Nematology 50:654 (Abstr.).
- Kutsuwa, K., and A. E. MacGuidwin. 2017. Gender difference in lesion formation by *Pratylenchus penetrans*. Journal of Nematology 49: 508-509 (Abstr.).

- Kutsuwa, K., D. W. Dickson, J. A. Brito., A. Jeyaprakash, and A. Drew. 2014. *Belonolaimus longicaudatus*, an emerging pathogen of peanut in Florida. *Journal of Nematology* 47:87-96.
- Kutsuwa, K., D. W. Dickson, J. A. Brito., A. Jeyaprakash, and A. Drew. 2014. Investigation of an emerging pathogen, *Belonolaimus* sp., infecting peanut in Florida. *Journal of nematology* 46:191(Abstr.).
- Takeuchi, J., T. Ono., K. Kutsuwa., K. Morita., M. Sano., S. Kagiwada., K. Yazawa., K. Nishio., and H. Horie. 2012. First report of anthracnose of *arthroxon hipidus* by *Collototichum destructivum* and lychee by *C. gloeosporioides* found in Japan. *Annual report of the kanto-tosan plant protection society* 59:59-62.

Skills

- Nematode disease diagnostics
- Fungal disease diagnostics
- PCR, Cloning, and Sequence analysis
- SAS and R programming languages
- Scanning Electron Microscopes

Awards

- Scholarship: Japan Student Services Organization, 2012-2018
- Bayer Graduate Student Travel Award: Society of Nematologists, 2018
- Dow AgroSciences Graduate Student Travel Award: Society of Nematologists, 2017
- The ONTA Foundation Travel Award: 6th International Congress of Nematology, 2014

Teaching

- Two laboratory sections of Plant Pathology 123; Plants, Parasites, and People

Committee

- Extension committee of Society of Nematologists – 2018-2019
- Student committee of Society of Nematologists – 2018-2019

Conference Presentation

- Society of Nematologists in Albuquerque, NM, 2018:
Modeling disease function of *Pratylenchus penetrans* on soybean using the nested error component model.
- Society of Nematologists in Williamsburg, VA., 2017:
Gender difference in lesion formation by *Pratylenchus penetrans*.
- 6th International Congress of Nematology in Cape Town, South Africa. 2014:
Investigation of an emerging pathogen, a sting nematode, infecting peanut in Florida.