Kanan Saikai (Kutsuwa)

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Personal website: https://ksaikai.github.io

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 vield loss analyses.

Education and Research Interests

2014 – present	Ph.D. in Plant Pathology, University of Wisconsin-Madison (UW-Madison), planned completion: Fall 2019. Dissertation: Characterizing the significance of Pratylenchus penetrans on soybean (Glycine max (L.) Merr.). Advisor: Dr. Ann E. MacGuidwin
2012 – 2014	M.S. in Nematology, University of Florida (UF) Thesis: Investigation of Belonolaimus longicaudatus infecting peanut in Florida. Advisor: Dr. Donald W. Dickson
2008 – 2012	B.S. in Plant Clinical Sciences, Hosei University in Japan Thesis: Characterization of Colletotrichum spp., Phytophthora nicotianae, and Corynespora cassicola on tropical fruits in Hachijo Island, Japan. Advisor: Dr. Hiromichi Horie

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 doi.org/10.1094/PDIS-02-19-0288-PDN (in press).
- Saikai, K., and A. E. MacGuidwin. 2019. First report of the root-lesion nematode, Pratylenchus alleni, on soybean in Wisconsin. Plant Disease doi.org/10.1094/PDIS-03-19-0501-PDN (in press).
- 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.

- <u>Kutsuwa, K.</u>, 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, <u>K. Kutsuwa</u>, K. Morita, M. Sano, S. Kagiwada, K. Yazawa, K. Nishio, and H. Horie. 2012. First report of anthracnose of *arthraxon hipidus* by *Collototichum destructivum* and lychee by *C. gloeosporioides* found in Japan. Annual report of the kanto-tosan plant protection society 59:59-62.

Manuscripts in preparations

- <u>Saikai, K.</u>, and A. E. MacGuidwin. 2019. Soybean plant growth response to the damage of *Pratylenchus penetrans*. (*Manuscript in preparation for the journal: Phytopathology*)
- <u>Saikai, K.</u>, and A. E. MacGuidwin. 2019. Modeling the damage function of *Pratylenchus penetrans* on soybean using a nested error component model. (*Manuscript in preparation for the Journal: Plant Disease*)
- <u>Saikai, K.</u>, and A. E. MacGuidwin. 2019. Characterization of gender difference in feeding activities and associated symptoms of *Pratylenchus penetrans*. (*Manuscript in preparation for the journal: Journal of Nematology*)
- <u>Saikai, K.</u>, D. Sundquist, and A. E. MacGuidwin. 2019. Profiling bi-sexual species of *Pratylenchus penetrans* associated with soybean in Wisconsin. (*Manuscript in preparation for the journal: Plant Health Progress*)

Skills

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

Awards

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Teaching and Mentorship

Teaching	
2016	Two laboratory sections of Plant Pathology 123; Plants, Parasites, and People
2016	A guest lecture at Plant Pathology 123 "Microbes in Our Farming Systems"
2016 – 2018	Volunteered as Teaching Assistant in Nematology laboratory

sections of Plant	Pathology 300:	Introduction of	of Plant Pathology

Mentorship 2017

David Sundquist, B.S. in Plant Pathology "The distribution of root lesion nematodes in Wisconsin agriculture fields"

Service

2018 – 2019	Extension committee of Society of Nematologists
2018 – 2019	Student committee of Society of Nematologists
2017	Volunteer staff at Garden Expo in Madison, Wisconsin

Conference Presentation

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2019	Annual meeting of Society of Nematologists in Raleigh, NC.
	"Damage potential of <i>Pratylenchus penetrans</i> on soybean." (Oral
	presentation)
2019	Annual meeting of Organizations of Nematologists Tropical
	America in Costa Rica. "A search for the best yield predictor for root
	lesion nematodes – a case study of Pratylenchus penetrans on
	soybean." (Poster presentation)
2018	Annual meeting of Society of Nematologists in Albuquerque, NM.
	"Modeling disease function of Pratylenchus penetrans on soybean
	using the nested error component model." (Oral presentation)
2017	Annual meeting of Society of Nematologists in Williamsburg, VA.
	"Gender difference in lesion formation by Pratylenchus penetrans."
	(Oral presentation)
2014	International Congress of Nematology in Cape Town, South Africa.
	"Investigation of an emerging pathogen, a sting nematode, infecting
	peanut in Florida." (Oral presentation)
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