Kanan Saikai (Kutsuwa)

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Profile

I am currently a JSPS overseas research fellow residing at International Institute of Tropical Agriculture (IITA) in Nairobi, Kenya. My research has focused on the biology and impact of plant-parasitic nematodes, with projects that range in scale from tissue culture to the field. My interest is with all aspects of plant-parasitic nematode biology and the diseases they cause of agricultural crops. This includes basic and applied research, education, and outreach via extension programs for growers.

Professional Experience

Professional Expe	rience
Sept. 2020~	International Institute of Tropical Agriculture Position: Guest/Visiting scholar (JSPS overseas research fellow) Host researcher: Danny Coyne (Soil health scientist) My responsibilities at IITA include developing management strategies against <i>Meloidogyne</i> species on coffee for small holder farmers as well as supervising the nematode screening for banana breeding programs that are currently ongoing in Nigeria, Tanzania, Uganda, and Kenya.
Education	
2014 – 2019	Ph.D. in Plant Pathology, University of Wisconsin-Madison (UW-Madison), expected completion date: Fall 2019. Dissertation title: 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 title: 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 title: Characterization of Colletotrichum spp., Phytophthora nicotianae, and Corynespora cassicola on tropical fruits in Hachijo Island, Japan. Advisor: Dr. Hiromichi Horie
2010	Internship at Florida Department of Agriculture and Consumer Services as a part of Doctor of Plant Medicine Program at UF.

Dates: August 1st to November 1st (3 months).

Publications

- <u>Saikai, K.,</u> and A. E. MacGuidwin. 2020. Intraspecific variation in phenological and phylogenetic features among *Pratylenchus penetrans* isolates from Wisconsin, USA. Journal of Nematology doi.org/10.21307/jofnem-2020-102.
- <u>Saikai, K.</u>, and A. E. MacGuidwin. 2020. Difference in lesion formation by male and female *Pratylenchus penetrans*. Journal of Nematology doi.org/10.21307/jofnem-2020-090.
- Vieira, P., Peetz, A., Mimee, B., <u>Saikai, K.</u>, Mollov, D., MacGuidwin, A., Zasada, I., and Nemchinov, L. G. 2020. Prevalence of the root lesion nematode virus (RLNV1) in populations of *Pratylenchus penetrans* from North America. Journal of Nematology doi.org/10.21307/jofnem-2020-045.
- <u>Saikai, K.</u>, 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.
- <u>Saikai, K.</u>, 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.
- <u>Kutsuwa, K.</u>, 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.
- 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. Loss of soybean yield and yield components to *Pratylenchus penetrans* in Wisconsin, USA (*Manuscript in preparation for Phytopathology*).
- <u>Saikai, K.</u>, Wanjara, S., and Coyne, D. Evaluation of extraction efficiency for *Radopholus similis* using different variations of the modified Baermann method (*Manuscript in preparation for Nematology*).

Professional interest

- Nematode assays and advisory services
- Nematode disease diagnostics
- Fungal disease diagnostics

- PCR, Cloning, and Sequence analysisSAS and R programming languagesScanning Electron Microscopy

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Awaras	
2021	Schroth Faces of the Future Award: The American Phytopathological Society.
2019	Rod Rodríguez-Kábana student poster competition 1 st place: Organization of Nematologists of Tropical America annual meeting, San Jose, Costa Rica (\$500).
2019	Student paper competition 2 nd place: Society of Nematologists annual meeting, Raleigh, NC (\$300).
2019	Bayer Graduate Student Travel Award: Society of Nematologists annual meeting, Raleigh, NC (\$500).
2019	The Walter R. Stevenson Graduate Student Travel Award: The UW-Madison (\$800).
2018	Bayer Graduate Student Travel Award: Society of Nematologists annual meeting, Albuquerque, NM (\$500).
2017	Dow AgroSciences Graduate Student Travel Award: Society of Nematologists annual meeting, Williamsburg, VA (\$500).
2014	The ONTA Foundation Travel Award: 6 th International Congress of Nematology, Cape Town, South Africa (\$500).
Grants	
2020 – 2022	Overseas Research Fellowships from Japan Society for the Promotion of Science (¥4,526,000/ year).
2012 – 2018	Scholarship from Japan Student Services Organization (\$12,000/ year).
2019	Student Research Grants Competition: The UW-Madison (\$1200).

Teaching and Mentorship

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Teaching	
2020	Basic Crash Course Nematology – Kenya at IITA-ICPE.
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 Plant Pathology.

Mentorship 2020~ 2020~ 2017	Celestine Oduori, M.Sc in Crop Science at University of Nairobi Wanjara Situma, Intern at IITA David Sundquist, B.S. in Plant Pathology at the UW-Madison
Service	
2018 – 2019 2018 – 2019 2017	Extension committee of Society of Nematologists. Student committee of Society of Nematologists. Volunteer staff at Garden Expo in Madison, Wisconsin.