



WIKUM HARSHANA JAYASINGHE

PROFILE

My goal is to become a successful teacher and a researcher with the collaboration of other national and international scientists and to develop tools and technologies that benefit the agricultural sector of Sri Lanka.

CONTACT

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Peradeniya, Sri Lanka.

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Research interests

Plant-virus-vector interactions
Apiculture
RNAi techniques
Higher education

Awards, prizes & scholarships

JICA innovative Asia Scholarship, JPN - 2017
S F H Perera Memorial Prize, UOP, SL - 2012

Memberships

Phytopathological Society of Japan, JP

EDUCATION

Graduate School of Agriculture, Hokkaido University, Japan

2018 - 2021

PhD in Agricultural Biology

Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka

2012 - 2014

MSc in Plant Protection Technologies

Faculty of Agriculture, University of Peradeniya, Sri Lanka

2007 - 2011

BSc in Agriculture Technology and Management

Holy Cross College, Kalutara, Sri Lanka

1992-2006

Primary and secondary education

WORK EXPERIENCE

University of Peradeniya - Lecturer

2015-present

Sugarcane Research Institute, Sri Lanka - Research Officer

2012-2015

PUBLICATIONS

Journal Papers

Indexed journals: 5

Other journals:1

Books

Compendium on Pests of Quarantine Important to Sri Lanka (2012)

For the full publication list and list of abstracts published, please see
the **Appendix 1**.

TRAINING RELATED TO UNIVERSITY TEACHING

Leading and Managing Universities, University of Peradeniya, SL - 2022

University Teaching, University of Hong Kong, HK - 2020 (online)

Future Faculty Development Programme, Hokkaido University, JPN - 2018

Induction Programme for Academic Staff, University of Peradeniya, SL - 2015

Appendix 1

Publications

Full paper indexed

- **Jayasinghe, W.H.**, Thanuja, A.L.A.R.R. and Balagalla, D.N., (2022). Effect of Cucumber mosaic virus infection on aphid colony development. *Journal of Plant Protection Research*, 62(1), p.108.
- **Jayasinghe, W.H.**, Akhter, M.S., Nakahara, K. and Maruthi, M.N. (2022) Effect of aphid biology and morphology on plant virus transmission. *Pest Management Science*, <https://doi.org/10.1002/ps.6629>
- **Jayasinghe, W.H.**, Kim, H., Nakada, Y. and Masuta, C. (2021). A plant virus satellite RNA directly accelerates wing formation in its insect vector for spread. *Nature Communications*, 12, 7087
- **Jayasinghe, W.H.**, Kim, H., Sasaki, J. and Masuta, C. (2021) Aphid transmissibility of onion yellow dwarf virus isolates with an N-terminal truncated HC-Pro is aided by leek yellow stripe virus. *Journal of General Plant Pathology*, <https://doi.org/10.1007/s10327-021-00986-y>
- Atarashi H, **Jayasinghe W.H.**, Kwon J, Kim H, Taninaka Y, Igarashi M, Ito K, Yamada T, Masuta C and Nakahara K.S. (2020) Artificially edited alleles of the eukaryotic translation initiation factor 4e1 gene differentially reduce susceptibility to cucumber mosaic virus and potato virus Y in tomato. *Frontiers in Microbiology*, 11:564310.

Full paper non-indexed

- Supuni, L.B.S., Wijesuriya, A., **Jayasinghe, W.H.** and Alwis, L.M.H.R., (2013). Parental selection for directional breeding of sugarcane (*Saccharum hybrid spp.*). *Journal of national institute of Plantation Management*, 27:52-58.

Book chapters

- **Jayasinghe, W.H.**, Wagh, S.G., Bhor, S.A. and Akhter, M.S., 2023. Plant RNA virus vector interactions in epidemiology of plant viral diseases. In *Plant RNA Viruses* (pp. 329-348). Academic Press.

Publications as conference proceedings or abstracts

- **Jayasinghe, W. H.**, Kim, H., Sasaki, J. and Masuta, C. (2020) OYDV isolate with an N-terminal truncated HC-Pro is dependent on LYSV for aphid transmission. In proceedings of the Hokkaido Society of Plant Pathology, Hokkaido, Japan, 16 October 2020. pp 24
- **Jayasinghe, W.H.** and Masuta, C. (2019). Cucumber mosaic virus y satellite turns tobacco yellow to attract aphids in favour of its survival. In proceedings of the 14th International Plant Virus Epidemiology, Seoul, South Korea, 13-17 May 2019. pp 57.
- Premarathne, M.A.G.C.N., Dissanayaka, K. G. D. C., Nishantha, K. M. D. W. P., Hemachandra, K.S. and **Jayasinghe, W.H.** (2017). Fecundity and oviposition behavior of *Acerophagus papayae* (Hymenoptera: Encyrtidae): A parasitoid of papaya mealybug (*Paracoccus marginatus*) (Hemiptera: Pseudococcidae). *Ann. Sri Lanka Dep. of Agriculture*. 19, 168–175.
- Rajeshkanna, S., Keerthiga, G., **Jayasinghe, W.H.** and Hemachandra, K. S. (2017). Efficacy of green chilli, ginger and garlic (3G) solution for the control of chilli thrips (*Scirtothrips dorsalis*.HOOD). *Ann. Sri Lanka Dep. of Agriculture*, 19, 255–259.

- Perera, A. M. M. S., Wijesuriya, A., Jayasekara, G. A. U., Ariyawansa, B. D. S. K. and **Jayasinghe, W. H.** (2014). An assessment of the size of the meristem Ex-plants for elimination of Sugarcane Bacilliform Virus. pp 63. In A. P. Keerthipala (ed) Proceedings of the Fifth Symposium on Plantation Crop Research - "Towards a Green Plantation Economy". Sugarcane Research Institute, Uda Walawe, 70190, Sri Lanka.