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▪ PROFILE

An Agricultural Scientist doctored in the field of Genetics, Plant Breeding and Biotechnology having graduated in Agricultural Sciences and mastered in Biotechnology and doctoral studies in conventional and molecular approach in plant breeding with research interests on molecular characterization of crops, application of advanced breeding methods in crop plants and DNA Barcoding in medicinal plants. The objective is to serve the Uva Wellassa University by the level best being hardworking, enthusiastic, and self-motivated.

▪ EDUCATIONAL QUALIFICATIONS

| Degree | Year | Major Field of Study | University / Institution |
|-------------------------------|------|-----------------------------|---|
| PhD | 2013 | Genetics and Plant Breeding | Postgraduate Institute of Agriculture, University of Peradeniya |
| MSc | 2004 | Biotechnology | Postgraduate Institute of Agriculture, University of Peradeniya |
| BSc Honours (2nd Class Upper) | 1996 | Agriculture | Faculty of Agriculture, University of Peradeniya |

▪ ACADEMIC HONOURS (AWARDS, RECOGNITIONS AND SCHOLARSHIPS)

- The Best Research Paper at the 14th Australian Plant Breeding Conference & 11th Society for the Advancement of Breeding and Oceania Congress 2009, Cairns, Queensland, Australia

▪ PUBLICATIONS

4.1 Peer Reviewed Journal Articles

- H.K. Kadupitiya, A.M.N.S.K. Abeysinghe, **L.M.H.R. Alwis** and R.M.C.W.M. Rathnayake. (2018). Evaluating the impact of land use / land cover changes on agro-biodiversity in Kandyan homegardens. *Tropical Agriculturist*. Vol. 166(2): 103-124
- G.G.S.U. Gamage, A.C. Udage, **L.M.H.R. Alwis**, W.M.W.S. Marapana and O.W.S.H. Ariyathilake. (2018). Gamma radiation sensitivity and effective dosage for seeds of tomato variety Katugastota wilt resistant. *Tropical Agriculturist*. Vol. 166(2): 125-136

- **Alwis, L.M.H.R.**, Dissanayake, M.U.K. and Rathnayake, R.M.W.M.C. (2018). Species diversity of local root and tuber crops in agricultural habitats in Uva Region. *Journal of Agriculture and Value Addition* Vol. 1 (1): 47 – 61.
- Welegama, H.M.V.T., Jayaratne, R.G.Y.H., **Alwis, L.M.H.R.** and Fonseka, H. (2015). Estimation of Combining Ability, Heritability and Heterosis in Tomato (*Solanum lycopersicum* L.) Using Full Diallele Mating Design. *Annals of Sri Lanka Department of Agriculture*. 17: 242-219.5.
- Rathnayake, R.M.B.S., Wijesooriya, A., Perera, A.M.M.S. and Alwis, L.M.H.R. (2013). Optimal Phyto-hormone Levels for Meristem Culture of Sugarcane (*Saccharum* Hybrid spp.) Variety SL 96 328. *Journal of the National Institute of Plantation Management*. 27 (02). pp.44-51.
- Supuni, L.B.S., Wijesooriya, A., Jayasinghe, W.H. and **Alwis, L.M.H.R.** and (2013). Parent Selection for Directional Breeding of Sugarcane (*Saccharum* Hybrid spp.). *Journal of the National Institute of Plantation Management*. 27 (02). pp. 52-59.
- De Silva, W.A.N.T., Kirthisinghe, J.P. and **Alwis, L.M.H.R.** (2012). Extending the Vase Life of Gerbera (*Gerbera* hybrid) Cut Flowers Using Chemical Preservative Solution. *Tropical Agricultural Research* Vol 24.
- **Alwis L.M.H.R.**, Perera A.L.T., Samarasinghe, W.L.G. and Peiris B.C.N. (2009). Breeding and Selection of New Varieties of Tomatoes Superior for Yield and Fruit Quality Characters Using Molecular and Classical Breeding Techniques. *SABRAO JOURNAL of BREEDING and GENETICS*. Australia.Vol. 41.
- **Alwis, L. M. H. R.**, Perera, A. L. T., Samarasinghe, W. L . G. (2008). Production of New Varieties of Tomatoes Based on Yield and Fruit Quality Characters Using Molecular and Classical Breeding Techniques. *Tropical Agricultural Research*. 20: 200 – 212
- **Alwis, L. M. H. R.**, Perera, A. L. T., Fonseka, H., and Peiris, B. C. N. (2005). Breeding and Selection of Tomato F1 Hybrids for Yield and Fruit Quality Characters. *Tropical Agricultural Research*. 17: 31 – 38

4.2 Abstracts/Extended Abstracts

- Hansika, A.M.A.M., Senarathne, B.M.K. and Alwis, L.M.H.R. (2019). Evaluation of Rice Grain Quality under Low Moisture and Normal Irrigated Conditions in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University.
- Herath, H.M.A.M., Alwis, L.M.H.R. and Ranasinghe, G.N. (2019). Optimization of PCR Protocols for Amplification of ITS1, ITS2, rbcL and matK genomic Regions of *Alpinia galangal* and Related spp.
- Inshirah, A.A.F., Somachandra, K.P., Jayasekara, E.A.S.S., Alwis, L.M.H.R. and Silva, P.D.P.M.D. (2019). Screening of Bean (*Phaseolus vulgaris* L.) Breeding Lines against Fusarium Wilt by *Fusarium oxysporum* f. sp. *Phaseoli* in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University.
- Kodithuwakku, P., Jeewani, D.C., Alwis, L.M.H.R. and Herath, H.M.S.K. (2019). Screening of *Arachis hypogaea* L. (Groundnut) Breeding Lines for Seed Size and Short Duration under Rain Fed Conditions in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University.
- Sarasi, W.A.D., Fernando, H.N.S., Alwis, L.M.H.R. and Weerawansa, A.N.R. (2019). Screening of Rice Breeding Lines for Resistance to Brown Plant Hopper (*Nilaparvata lugens*) in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University.
- Wickramasinghe, G.A., Subhashini, M.H.A.D. and Alwis, L.M.H.R. (2019). Investigating the Presence of Candidatus *Liberibacter asiaticus* in *Muraya Koenigii* and *Citrus* spp. from Selected Areas in Sri Lanka in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University.
- Bandara, M.M.N.T. and **Alwis, L.M.H.R.** (2018). Comparison of High Performing Seedlings and Vegetatively Propagated Tea Cultivars in Selected Tea Estates in Badulla in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
- Bandaranayake, M.A.B.R.P., Chandrasena, G.D.S.N. Weerawansa, A.N.R. and **Alwis, L.M.H.R.** (2018). Status of Natural Parasitism of Rice Yellow Stem Borer, *Scirpophaga*

- incertulas* in Bathalagoda Region, Sri Lanka in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
- Dishan, M.A., Samarasinghe, M.K.S.R.D., Weerawansa, A.N.R. and **Alwis, L.M.H.R.** (2018). Field Evaluation of Different Coffee Cultivars (*Coffea* spp.) Against Infestation of Coffee Berry Borer (*Hypothenemus hamperi ferrari*) in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
 - Gajanayake, G.K.S.N., Priyantha, W.S. and **Alwis, L.M.H.R.** (2018). Selection of Elite Hybrids of Rice Based on Combining Ability and Heterosis in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
 - Kiruthika, T., Jeewanthi, P.W. and **Alwis, L.M.H.R.** (2018). Effect of Rainfall Changes on Tea Yield using Standardized Precipitation Index in Badulla in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
 - Rajapakshe, R.L.P.N.D., Weerasinghe, A.R., Attanayake, D.P.S.T.G., Wiesinghe, C.R. and **Alwis, L.M.H.R.** (2018). Genome Analysis on Drought Resistance of *Heavea brasiliensis* in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
 - Wijewickrama, W.L.H., Meegahakumbura, M.K., Attanayake, D.P.S.T.G and **Alwis, L.M.H.R.** (2018). Determination of Genetic Purity of the Yellow Dwarf Coconut Seedlings Rejected from Nurseries Using SSR Markers in Proceedings of 2nd International Research Symposium 2018 (IRSUWU2018) at Uva Wellassa University.
 - Abeysinghe, A.M.N.S.K., **Alwis, L.M.H.R.**, Rathnayake, R.M.C.W.M. and Kadupitiya, H.K. (2017). Evaluating Agro-biodiversity in Kandyan Homegardens in Different Land Use / Land Cover Change Categories in Kandy District in Proceedings of International Research Symposium 2017 (**IRSUWU2017**) at Uva Wellassa University.
 - **Alwis, L.M.H.R.**, Dissanayake, R.M.N. and Udumann, S.S. (2017). Comparison of Germplasm Diversity in Common Bean (*Phaseolus vulgaris* L.) Collected in 2010 and 2016 from Badulla and Nuwara Eliya Districts in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Amarasinghe, A.A.I.M., **Alwis, L.M.H.R.** and Tennakoon, T.M.N.D. (2017). Development of DNA Marker for the Identification of Phytoplasma Disease in *Petunia* spp. In Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Thotagodawatta, T.M.N.B.K., Samarasinghe, W.L.G., **Alwis, L.M.H.R.** and Ubeyssekara, N.M. (2017). Genetic Diversity Analysis of Traditional Rice Variety “Pokkali” Using Simple Sequence Repeat Markers (SSR) in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Karunadasa, R.M.S.P., Samarasinghe, W.L.G., **Alwis, L.M.H.R.** and Ubeyssekara, N.M. (2017). Genetic Diversity Analysis of Traditional Rice Variety “Kuruluthuda” Using Simple Sequence Repeat Markers (SSR) in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Hemachandra, R.P.D.H., Priyantha, W.S. and **Alwis, L.M.H.R.** (2017). Yield Performance of Exotic and Local Hybrid Rice Varieties in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Rathnayake, R.L.P.H.K., Karunanda, D. and **Alwis, L.M.H.R.** (2017). Determination of Lethal Dose 50 (LD50) Value of 60Co Gamma Irradiation for Tomato (*Lycopersicon esculentum* Mill.) Variety Thilina in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - Jayalath, K.A.T.K., Fonseka, H.H.D., Welegama, H.M.V.T., **Alwis, L.M.H.R.**, Withanage, N.S. and Dissanayake, D.M.B.G.A.I.K. (2017). Evaluation of Morpho-physiological Variations in Wild Relatives of Eggplant under Water Stress Conditions in Proceedings of International Research Symposium 2017 (IRSUWU2017) at Uva Wellassa University.
 - **Alwis, L.M.H.R.**, Meyes, Sean, Ho Wi Kuan and Karunaratne, A.S. (2016). Eco-geographic Distribution of Proso Millet (*Panicum milliaceum* L.) in Sri Lanka in 3rd International Conference of Agricultural Sciences “Aginsight 2016” at Faculty of Sciences, Sabaragamuwa University of Sri Lanka.
 - Jayathissa, K.A.M.Y.C., **Alwis, L.M.H.R.** and Kannangara, K.N. (2016). Characterization of *Capsicum chinense* Jacq (Pungent Chilli) Landraces in International Symposium on Agriculture and Environment 2017 (ISAE 2017).

- Amarasinghe, A.A.I.M., Tennakoon, T.M.N.D., Nandasena, K.D. and **Alwis, L.M.H.R.** (2016). Detection and Confirmation of Phytoplasma Disease in *Manilkara zapota* by Using Molecular Technology in iCMA 2016 Proceedings of 3rd International Conference on Multidisciplinary Approaches – 2016 jointly organized by Faculty of Graduate Studies, University of Sri Jayawardanapura and Ministry of Science, Technology and Research.
- Abesinghe, A.M.N.S.K., **Alwis, L.M.H.R.**, Rathnayake, R.M.C.W.M. and Kadupitiya, H.K.. (2016). Changing Land Use Land Cover in Mid Country Wet Zone of Kandy District Sri Lanka in Winc 2016 Proceedings of Wayamba International Conference at Wayamba University of Sri Lanka.
- Abeyrathna, H.M.D.C., **Alwis, L.M.H.R.**, Weerawansa, A.N.R., Mevan, K.M., Fernando, M.S.C. and Senanayake, P.D. (2016). A Comparison of Selected Biochemical Parameters in Between Susceptible and Tolerant Tea Cultivars for *Glyptotermes dilatatus* (Low Country Live Wood Termite). 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Abeyasinghe, A.H.M.G.I., **Alwis, L.M.H.R.**, Kahandage, K.P.M. and Ranathunga, M.A.B. (2016). Screening of Tea Germplasm on Suitability for Green Tea Manufacturing. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Abeyasinghe, A.M.N.S.K., **Alwis, L.M.H.R.**, Rathnayake, R.M.C.W.M. and Kadupitiya, H.K. (2016). Evaluating the Impacts of Land Use / Land Cover Changes on Agro-biodiversity of Kandyan Home Gardens. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Amarasinghe, A.A.I.M., **Alwis, L.M.H.R.**, Silva, P.D.M.D. Silva, Basnayake, B.M.V.S., Tennakoon, T.M.N.D. and Nandasena, K.D. (2016). Detection and Confirmation of Phytoplasma Disease in Different Crop Species by Using Molecular Technology. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Jayasinghe, W.S. and **Alwis, L.M.H.R.** (2016). Determinants of Adoption Decision of Newly Improved Tea Cultivars by Tea Small Holders in Uva Region. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Jayathilaka, W.S.P., **Alwis, L.M.H.R.**, Amarakoon, A.M.C., Batuwantuduwa, T.D. and Palakatiya, G. (2016). Determinants of Value Added Production in Cinnamon Industry. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Jayathissa, K.A.M.Y.C., **Alwis, L.M.H.R.** and Kannangara, K.N. (2016). Characterization of Pungent Chllie (*Capsicum chinense* Jacq) Landraces. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Ranasinghe, R.A.S.N. and **Alwis, L.M.H.R.** (2016). Development of a Protocol to Extract Quality DNA from Maha Aratta (*Alpinia galangal* (L.) Sw.) and Related Species. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Wijesinghe, D.T.D., **Alwis, L.M.H.R.**, Weerawansa, A.N.R. and Amarasena, S. (2016). Factors Affecting on the Population Levels of Cigarette Beetle (*Lasioderma serricorne*). 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Wijewickrama, A., **Alwis, L.M.H.R.** and Wasala, S. (2016). Morphological Characterization of *Capsicum* Species Cinserved in Genetic Resources Centre. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Yallarawa, Y.S.M.M.P., **Alwis, L.M.H.R.** and Wickramasinghe, K. (2016). Assessing Adoption of Organic Pepper Cultivation in Kandy, Matale and Kegalle Districts. 6th Research Symposium, Uva Wellassa University, Sri Lanka.
- Dilruckshika, H.L.T. and **Alwis, L.M.H.R.** (2015). Protocol for Callus Induction of *Camellia japonica* L. (Tea Rose). 5th Research Symposium, Uva Wellassa University, Sri Lanka.
- Dissanayake, S.G.H.C.K., **Alwis, L.M.H.R.**, Jayasinghe, H.A.S.L., Attanayake, A.M.C.I.M. and Senevirathne, J.M. (2015). Development of a Protocol for In Vitro Propagaation of Black Pepper (*Piper nigrum* L.) Local Selections. 5th Research Symposium, Uva Wellassa University, Sri Lanka.
- Fernando, J.H.C.M. and **Alwis, L.M.H.R.** (2015). A Study on Floral Morphology of *Camellia japonica* L. (Tea Rose) in Sri Lanka. International Conference on Plant, Marine and Environmental Sciences (PMES)-2015, Kuala Lumpur, Malaysia.
- Jayarathne, R.G.Y.H., **Alwis, L.M.H.R.**, Fonseka, H. and Welegama, H.M.V.T. (2015). Analysis of Combining Ability and Heterosis in Tomato (*Solanum lycopersicum*) Using Full Diallele Cross. 5th Research Symposium, Uva Wellassa University, Sri Lanka.

- Priyadarshanie, H.V.C., **Alwis, L.M.H.R.** and Sirisena, D.N. (2015). Study on Response of Rice Varieties to Different Nitrogen Fertilizer Levels. 5th Research Symposium, Uva Wellassa University, Sri Lanka.
- Wijesinghe, A.P., Alwis, L.M.H.R., Jayasinghe, H.A.S.L. and Nugaliyadda, M.M. (2015). Feasibility Study for Direct Planting of *In Vitro* Potato (*Solanum tuberosum* L.) Varieties Granola Aand Golden Star in Aeroponic System. 5th Research Symposium, Uva Wellassa University, Sri Lanka.
- Athapattu, A.M.D.T., **Alwis, L.M.H.R.**, Bandara, S.M.I.P.G. and Thalagoda, U. (2013). Development of a Flavored Herbal Tea using Broken Mixed Fannings and Moringa (*Moringa oleifera*) Leaves, Research Symposium, Uva Wellassa University, Sri Lanka.
- Chandrasoma, H.E.L.K.D., **Alwis, L.M.H.R.** and Kumari, H.M.P.S. (2013). Determination of Effect of Pretreatment and Best Medium for Anther Culture for Selected Potato Varieties (*Solanum tuberosum* L.), Research Symposium, Uva Wellassa University, Sri Lanka.
- De Silva, D.C.K. and Alwis, L.M.H.R. (2013) Evaluation and Multiplication of Common Bean Germplasms Collected from Uva Region, Research Symposium, Uva Wellassa University, Sri Lanka.
- Dissanayake, R.M.L.A., **Alwis, L.M.H.R.** and Marasinghe, P. (2013). Taxonomical Identification of Maha Arattaa (*Alpinia galangal* L. SW.), Research Symposium, Uva Wellassa University, Sri Lanka
- Fernando, J.H.C.M. and **Alwis, L.M.H.R.** (2013). Study on Vegetative Propagation of *Camellia japonica* L. (Tea Rose), Research Symposium, Uva Wellassa University, Sri Lanka.
- Gunadasa, J.G.D.C., **Alwis, L.M.H.R.**, and Samarasinghe, W.L.G. (2013). Phenotyping of Breeding Populations in Complement with Molecular Markers to Select Submergence Tolerant Rice (*Oryza sativa*), **Research Symposium, Uva Wellassa University, Sri Lanka.**
- **Herath, H.M.D.M.P., Alwis, L.M.H.R. and Bandhupriya, H.D.D. (2013). Initiation of Callogenesis from** Unfertilized Ovary Explants of Oil Palm (*Elaeis guineensis* Jacq.), Research Symposium, Uva Wellassa University, Sri Lanka.
- Kiriwadeniya, K.G.S., **Alwis, L.M.H.R.** and Ranasinghe, C.S. (2013). Determination of Cultivar Differences of Coconut on Heat Tolerance by *In Vitro* Pollen Germination, Research Symposium, Uva Wellassa University, Sri Lanka.
- Kumara, W.G.M., **Alwis, L.M.H.R.** and Jayasundera, J.M.M.A. (2013). Development of Ready to Drink Beverage from Coconut Water of DC Mills, Research Symposium, Uva Wellassa University, Sri Lanka.
- Maduwanthi, B.L.G., **Alwis, L.M.H.R.**, Alakolanga, A.G.A.W. and Samaranayake, H.G.H. (2013). Formulation and Development of Skin Care Cream by Using Tea Fluff, Research Symposium, Uva Wellassa University, Sri Lanka
- Rathnayake, R.M.B.S., **Alwis, L.M.H.R.** and Wijesooriya, A. (2013). Determination of Optimal Auxin and Cytokinin Levels for Meristem Culture of Sugarcane (*Saccharum* Hybrid spp) Variety SL 96 328, Research Symposium, Uva Wellassa University, Sri Lanka
- Sudasinghe, S.P., **Alwis, L.M.H.R.** and Marasinghe, P. (2013). Effect of Different Potting Media for Vegetative Propagation of Tippili (*Piper longum* and *Piper samentosum*), Research Symposium, Uva Wellassa University, Sri Lanka.
- Supuni, L.B.S., **Alwis, L.M.H.R.** and Wijesuriya, A. (2013). Evaluation of Sugarcane Germplasm for Development of Core-collections for Directional Breeding of Sugarcane (*Saccharum* hybrid spp.), Research Symposium, Uva Wellassa University, Sri Lanka.
- Wanninayaka, R.P.P. and **Alwis, L.M.H.R.** (2013). Effect of Seed Treatment on Seed Germination Areca Nut (*Areca catechu* Linnaeus) Palm, Research Symposium, Uva Wellassa University, Sri Lanka.
- Wickramathilaka, M.A.A.C. **Alwis, L.M.H.R.** Alawathugoda, R.M.D. and Zuhry, A.L.M. (2013). Multiplication of Endangered Indian Sandalwood (*Santalum album* L.) through Vegetative Propagation Techniques, Research Symposium, Uva Wellassa University, Sri Lanka.
- Liyanage, L.P.H., Jayasinghe, H.A.S.L. and **Alwis, L.M.H.R.** (2012). Development of Protocol for *In Vitro* Propagation of Gladiolus, Proceeding of the Research Symposium, Uva Wellassa University, Sri Lanka.
- Rasith, M.J.A., Damayanthi, M.M.N. and **Alwis, L.M.H.R.** (2012). Identification of Drought Tolerance Accessions of Tea (*Camellia sinensis*) in Uva Region of Sri Lanka, Proceeding of the Research Symposium, Uva Wellassa University, Sri Lanka.

- Ruwanpura, U.D.R.E., Ranatunga, M.A.B. and Alwis, L.M.H.R. (2012). Morphological Characterization of Newly Improved Tea (*Camellia sinensis* L.O. Kuntze) Cultivars, Proceeding of the Research Symposium, Uva Wellassa University, Sri Lanka.
- Sivarajah, K., Alwis, L.M.H.R., Rathnayake, R.M.C.W.M., De Silva, W.A.N.T. and Mikunthan, G. (2012). Identifying and Mapping the Distribution of Selected Medicinal Plants in Jaffna District, Proceeding of the Research Symposium, Uva Wellassa University, Sri Lanka.
- Pothmitiyage, D.H.K., Abey Siriwardhana, S. and Alwis, L.M.H.R. (2011). Germination and Water Requirement for Cooking of Dehulled Rice at Different Degree of Polishing, Proceeding of the Research symposium, Uva Wellassa University, Sri Lanka.
- Kanakwatta, J.M.R.A.B., Ariyaratna, H.M. and Alwis, L.M.H.R. (2011). Characterization of *Phaseolous vulgaris* L.(Common Bean) Accessions Collected from Farmer Fields by Using Morphological Characters, Proceeding of the Research symposium, Uva Wellassa University, Sri Lanka.
- Ramanayake, R.M.D.N., Rajapaksha, R. and Alwis, L.M.H.R. (2011). Taxonomic Status of *Rhipsalis baccifera* in Sri Lanka, Proceeding of the Research symposium, Uva Wellassa University, Sri Lanka.

4.3 Poster Presentations

- Nabadawewa, E.M.A.P. and Alwis, L.M.H.R. (2019). Optimization of PCR Protocols for SSR Markers Based Molecular Characterization of *Camellia sinensis* (Tea) in Proceedings of International Research Conference 2019 (IRcUWU2019) held on 7 – 9 February 2019 at Uva Wellassa University

4.4 Scientific Presentations

- Country Paper and Poster Presentation on Agricultural Biotechnology in Sri Lanka By L. M. H. R. Alwis, Uva Wellassa University, Badulla, Sri Lanka, D. G. S. Ratnapala, Department of Agriculture, Peradeniya, Sri Lanka and J. D. Weerasooriya, Department of Agriculture, Peradeniya, Sri Lanka at Asian Food and Agribusiness Conference 2013: Biotechnology and Global Competitiveness from 15–18 July 2013 in Taipei, Republic of China (Taiwan).

4.5 Theses/Dissertations

5. RECENT RESEARCH PROJECTS INVOLVED

1. Funded by Ministry of Agriculture through SLCARP the Research Project on “Improvement of *Phaseolus vulgaris* L. (Common Bean) Participatory Plant Breeding Approach for High Yielding and Wind Tolerance for Welimada and Boragas Areas” (NARP/16/UWU/ASEA/01 for three years from 2016
2. Funded by University Grant Commission as Innovative Research Grants – 2014 (UGC/VC/DRIC/IRG2014/SUSL-02) Research Project on “Modelling the Climate Sensitivity and Assessing Genetic Structure of Proso Millet (“Meneri”) in Sri Lanka” for three years from 2014
3. Speciation of *Murraya koenigii* (L.) Spreng. (Curry Leaves) in 2019 (Student Research)
4. University Grant on DNA Barcoding of *Alpinia galanga* (L.) Sw. (Maha Araththa) and Related Species in 2018
5. University Grant On-Farm Germplasm Conservation of Uva Region in 2013
6. University Grant on Evaluation of Common Bean (*Phaseolous vulgaris* L.) Germplasm for Monogenic Pest and Anthracnose Resistance with RAPD Markers in 2012

6. GRANTS RECEIVED

1. Funded by Ministry of Agriculture through SLCARP the Research Project on “Improvement of *Phaseolus vulgaris* L. (Common Bean) Participatory Plant Breeding Approach for High Yielding and Wind Tolerance for Welimada and Boragas Areas” (NARP/16/UWU/ASEA/01 for three years from 2016
2. Speciation of *Murraya koenigii* (L.) Spreng. (Curry Leaves) in 2019 (Student Research)
3. University Grant on DNA Barcoding of *Alpinia galanga* (L.) Sw. (Maha Araththa) and Related Species in 2018
4. University Grant On-Farm Germplasm Conservation of Uva Region in 2013
5. University Grant on Evaluation of Common Bean (*Phaseolous vulgaris* L.) Germplasm for Monogenic Pest and Anthracnose Resistance with RAPD Markers in 2012

7. THESIS SUPERVISION

1. Development of DNA Barcoding of *Alpinia Galanga* (L.) Sw. (Maha Aratta) and Related Species. H. M. A. M. Herath - UWU/EAG/14/0025
2. Investigating the Presence of *Candidatus Liberibacter Asiaticus* in *Murraya koenigii* and *Citrus* Spp. from Selected Areas in Sri Lanka. G.A.Wickramasinghe - UWU/EAG/14/0007
3. Evaluation of Rice Grain Quality under Low Moisture and Normal Irrigated Conditions. A.M.A.M. Hansika - UWU/EAG/14/0004
4. Screening of Bean (*Phaseolus Vulgaris* L.) Breeding Lines and Selected Fungicides against Fusarium Wilt Caused by *Fusarium oxysporum* F. Sp. Phaseoli. A.A.F. Inshirah – UWU/EAG/14/0009
5. Screening of *Arachis hypogaea* L. (Groundnut) Breeding Lines for Large Seeded and Short Duration under Rain Fed Conditions . P. Kodithuwakku - UWU/EAG/14/0040
6. Screening of Rice Breeding Lines for Resistant to Brown Plant-hopper (*Nilaparvata lugens*). W. A. D. Sarasi - UWU/EAG/14/0018
7. DNA Fingerprinting of Extensively Used Vegetatively Propagated Cultivars and High Performing Seedlings of Tea (*Camellia sinensis*)iIn Selected Tea Estates In Badulla. E. M. A. P. Nabadawewa - UWU/TEA/14/0006
8. Preparation of Quality DNA of Maha Araththa (*Alpinia Galanga* (L.) Sw.) and Related Species for DNA Barcoding. G.N. Ranasinghe - UWU/EAG/13/0025
9. Field Evaluation of Different Coffee Cultivars (*Coffea* spp.) Against the Infestation of Berry Borer (*HypothenemusHampeiferrari*). M.A. Dishan - UWU/EAG/13/0007
10. Status on Natural Parasitization of Rice Yellow Stem Borer in Yala Season. M.A.B.R.P. Bandaranayake - UWU/EAG/13/0004
11. Selection of Elite Hybrids and Parents of Rice Using Estimation of Combining Ability and Heterosis. G.K.S.N. Gaanayake – UWU/EAG/13/0011
12. Determination of LD50 Value for Tomato Variety Katugasthota Wilt Resistant. A.C. Udage - UWU/EAG/13/0040
13. Effects of Climate Changes on Yield and Quality of Uva Tea (*Camellia sinensis* (L.) O. Kuntze) using Standardized Precipitation Index. T . Kiruthika - UWU/TEA/13/0018
14. Morphological and Molecular Comparison of High Performing Seedling Teas and Extensively Used Vegetative Propagated Cultivars of Tea (*Camellia sinensis* (L.) O. Kuntze) in Badulla. M.M.N.T Bandara - UWU/TEA/13/0006
15. Genome Study on Drought Resistance of Rubber Plant (*Hevea brasiliensis*) using Bioinformatics. R.L.P.N.D. Rajapaksha - UWU/PLT/13/0027
16. Identification of Genetic Basis of the Yellow Dwarf Coconut Seedlings Rejected from Nurseries Using SSR Markers. W.L.H. Wijewickrama - UWU/PLT/13/0034

17. Determinants of Supply Chain of Newly Improved Rubber Cultivars Introduced to Rubber Growers In Monaragala Area. P.W.T. Priyankara - UWU/PLT/13/0026
18. Yield Performances of Exotic and Local Hybrid Rice Varieties. R.P.D.H. Hemachandra - UWU/EAG/12/0010
19. Evaluation of Morpho-physiological Variations in Wild Relatives of Eggplants Under Water Stress Conditions. K.A.T.K. Jayalath - UWU/EAG/12/0012
20. Genetic Diversity Analysis of Traditional Rice Variety “Kuruluthuda” Using Simple Sequence Repeat Markers (SSR). R.M.S.P. Karunadasa - UWU/EAG/12/0013
21. Preparation of a Protocol and Identification of the Best Development Stage of Anthers, for Anther Culture of *Capsicum annum* L.. R.P.S. Mettananda - UWU/EAG/12/0025
22. Determination of Lethal Dose 50 (LD50)Value of 60 °C Gamma Irradiation for Tomato (*Lycopersicon esculentum* Mill) Variety Thilina. R.L.P.H.K. Rathnayake - UWU/EAG/12/0033
23. Genetic Diversity Analysis of Traditional Rice Variety “Pokkali” Using Simple Sequence Repeat Markers (SSR). T.M.N.B.K. Thotagodawatta - UWU/EAG/12/0040
24. Identification of the effect of the factors; girth, tapping depth, angle and time on yield of recommended clone RRIC 117 of *Hevea brasiliensis*. N.M.M.S. Gunathilaka – UWU/PLT/12/0009
25. Particle Size Distribution of High Grown Broken Pekoe (BOP) Tea. M.G.D. Shehani – UWU/TEA/12/0024

8. TEACHING CONTRIBUTION

Lectures, Practical Sessions and Field Visits

First Semester in an Academic Year

1. Crop Botany (EAG 111-1) for Export Agriculture
CA: Practical Classes 06, Quiz 01, Mid Exam, Herbarium and Demonstration, Spot Test
2. Crop Botany (PLT 111-1) for Palm and Latex Technology and Value Addition
CA: Practical Classes 06, Quiz 01, Mid Exam, Herbarium and Demonstration, Spot Test
3. Tea Botany (TEA 111-1) for Tea Technology and Value Addition
CA: Practical Classes 06, Quiz 01, Mid Exam, Herbarium, Demonstration and Presentation, Spot Test
4. Basic Genetics (EAG 211-2) for Export Agriculture, Tea Technology and Value Addition and Palm and Latex Technology and Value Addition
CA: Assignment 01, Tutorial 10, Mid Exam
5. Introduction to Biotechnology (EAG 312-2) for Food Production Technology and Agricultural Production Technology of Export Agriculture, Tea Technology and Value Addition and Palm and Latex Technology and Value Addition
CA: Practical Classes 07, Assignment 01, Mid Exam, Presentation 01, Spot Test

Second Semester in an Academic Year September

6. Genetic Improvement of Crops (EAG 315-2) for Agricultural Production Technology of Export Agriculture
CA: Assignments 01, Mid Exam, Quiz 02, Field Report 01, Presentation 01
7. Genetic Improvement of Perennial Crops (PLT 311-2) for Palm and Latex Technology and Value Addition
CA: Assignments 01, Mid Exam, Quiz 02, Field Report 01, Presentation 01
8. Tea Cultivar Development (TEA 311-2) for Tea Technology and Value Addition
CA: Assignments 02, Mid Exam, Quiz 01, Field Report 01

9. WORK EXPERIENCE

| Post | Institute | Duration |
|--------------------------------|---|--|
| Visiting Lecturer | Department of Biotechnology, Faculty of Agriculture Plantation Management, The Wayamba University of Sri Lanka | December 2007 to February 2008 November 2004 to February 2005 |
| Visiting Academic | Faculty of Engineering Technology, The Open University of Sri Lanka | October 2006 – January 2007 |
| Visiting Lecturer | Department of Food Science & Technology, Faculty of Livestock Fisheries & Nutrition, The Wayamba University of Sri Lanka | July 2006 to November 2006 October 2005 to December 2005 |
| Research Assistant | CARP Contract Research Project – 12/488/364 Postgraduate Institute of Agriculture, University of Peradeniya | September 2003 to September 2006 |
| Research Assistant | Comparative Research Study on Pollution Control in Industrial Estates in Southeast Asia; Case of Sri Lanka, EEPSEA Research Project Office, Ministry of Enterprise Development, Industrial Policy and Investment Promotion | February 2002 to November 2002 |
| Executive cum Aquaculturist | Keels Aquariums (Pvt) Ltd. | October 1997 to September 2001 |
| Temporary Demonstrator | Department of Agric Biology, Faculty of Agriculture, University of Peradeniya | April 1997 to September 1997 |

10. OTHER POSITIONS HELD

1. Team Leader of the Self Evaluation for Design and Development Course Contents in Programme Review 2019 of Export Agriculture Degree offered by Department of Export Agriculture
2. Director of the Uva Wellassa University International Collaboration Centre (UWU-ICC) since February 2018
3. Chairperson of the Housing Committee of Uva Wellassa University since 2015
4. Coordinator of first International Research Symposium of Uva Wellassa University 2017 (IRSUWU-2017)
5. Secretary to Uva Agricultural Development Forum from April 2016 to March 2017
6. Head of Department of Export Agriculture from March 2012 to September 2016
7. Member of the Council representing the Senate from 2015 to 2016
8. Member of Senate representing Department of Export Agriculture from March 2012 to September 2014
9. Member of Faculty Board from 2008 to date

10. Member of Research Committee from 2009 to date
11. Student Counsellor of Uva Wellassa University
12. Chairperson of Housing Committee
13. Symposium Coordinator of International Research Symposium - 2017 of Uva Wellassa University
14. Warden from 2013 to 2015
15. Academic Sub warden from 2008 to 2013
16. Secretary to the Uva Agriculture Development Forum in 2016
17. Sub Activity Coordinator for Soft Skills of UDG-HETC Project from 2012 to 2015
18. Coordinator for Integration of Students with UWU Family in 2014
19. Event Coordinator for Integration of Students with UWU Family in 2012 and 2013
20. Chairperson and Member of Technical Evaluation Committees
21. Group Leader of Board of Survey
22. Member of Inquiry Committees
23. Mentoring for undergraduates
24. Activity Coordinator for Organizing Committee of Convocation 2018
25. Member of the Higher Degree Committee of Faculty of Animal Science and Export Agriculture
26. Conference Track Coordinator of Genetics & Biotechnology of IRCUWU2019
27. Chairperson Technical Evaluation Committees

11. RESOURCE PERSON

1. Conducted a Workshop on True Hybridity Testing of Rice and Vegetable Crops with collaboration of Agricultural Biotechnology Centre, University of Peradeniya
2. Conducted Two Programmes on On-Farm Germplasm Conservation and Distribution of Yams in Uva Region in Badulla in 2010 and 2012
3. Resource Person for the Programme for Directing G.C.E. Advanced Level Students of Dharmadutha College, Badulla in 2012 and 2013
4. Extended Service in Evaluation of Abstracts for the Young Scientists Forum Symposium 2012
5. Extended Service in GCE (A/L) 2019 Paper Marking on Agricultural Science as a Chief Examiner

12. TRAININGS AND WORKSHOPS ATTENDED

| University/ Institute/ Organization | Major Field of Training/Seminar | Year |
|-------------------------------------|---------------------------------|------|
|-------------------------------------|---------------------------------|------|

| | | |
|---|--|------|
| National Herbarium, Royal Botanic Gardens, Peradeniya | Molecular Species Delineation, Plant DNA Barcoding, Phylogenetics and Biogeographic Analysis | 2019 |
| Asian Disaster Preparedness Centre Sri Lanka Office, 1-131, BMICH, Colombo 07 held at Hotel Ananthaya, Chilaw | Training Course on Ecosystem Resilience in a Changing Climate | 2019 |
| Agricultural Genetic Engineering Research Institute (AGERI), Egypt and the International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy and held at AGERI, Egypt | Training Course on “New Trends in Molecular Plant Breeding” | 2017 |
| Top Crops for the Future (CFF) in Malaysia | | |
| International Conference on Plant, Marine and Environmental Sciences (PMES-2015) | | |
| Institute of Botany and University of Kelaniya | Training Course on Current Advanced Molecular Techniques in Crop Modelling | 2017 |
| Information and Communication Technology Centre, University of Kelaniya and Higher Education for the Twentieth Century (HETC) Project | | 2015 |
| Asian Productivity Organization Taipei, Republic of China | Oral Presentation on A Study on Floral Morphology of <i>Camellia japonica</i> L. (Tea Rose) | 2014 |
| Community-based Biodiversity Management – South Asia Programme | | |
| Staff Development Centre, University of Colombo | DNA Barcoding | 2013 |
| Convention Centre, Cairns, Queensland, Australia | Training on Learning and Management System for Academic Staff of Universities | |
| Agricultural Biotechnology Centre, University of Peradeniya | | 2013 |
| Postgraduate Institute of Agriculture, University of Peradeniya | | |
| Agricultural Biotechnology Centre, University of Peradeniya | Asian Food and Agribusiness Conference 2013; Biotechnology and Competitiveness | 2013 |
| | | 2011 |
| | Advanced Approach in Participatory Plant Breeding for Food Security and Sustainable Agriculture | 2009 |
| | Making Teaching Effective (MaTE) | |
| | | 2008 |
| | 14 th Australian Plant Breeding Conference & 11 th Society for the Advancement of Breeding and Oceania Congress 2009 | 2007 |

13. EDITOR/REVIEWER ASSIGNMENTS

1. Editor for Proceeding of International Research Symposium 2016 of Uva Wellassa University
2. Reviewer for the JAVA
3. Reviewer for the PGIA Congress 2017 and 2018
4. Reviewer for the Sabaragamuwa University 2018
5. Reviewer of Abstracts on Biodiversity & Conservation, Bioprocess Technology, Genetics & Biotechnology and Sustainable Crop Production for International Research Conference of Uva Wellassa University 2018 (IRCUWU2019)
6. Service as Abstract Reviewer for Research Symposium – 2012, 2013, 2014, 2015, and International Research Symposia 2016 and 2017, 2018 and International Research Conference 2019 of Uva Wellassa University

14. SCIENTIFIC SOCIETIES MEMBERED

1. Member of Society for the Advancement of Breeding Research in Asia and Oceania (SABRAO) from 2017. Membership No.: Sabrao/SL/AM/02
2. IPAST Member of National Science Foundation
3. Member of International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy

15. PERSONAL INFORMATION

Surname : Alwis
Name : L. Mangali H. R. Alwis
Gender : Female
Date of Birth : 25.03.1969
Marital Status : Single
Nationality : Sri Lankan