

CURRICULUM VITAE

Janakie Prasanthika Eeswara

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ACADEMIC AND PROFESSIONAL QUALIFICATIONS

PhD (Tissue Culture), University of Aberdeen, UK (1996)

(Research Degree-Area of specialization: Plant secondary metabolite production by cell and tissue cultures)

M.Phil. (Agriculture), University of Peradeniya, Sri Lanka (1995)

Research: Identification of Mungbean, Cowpea and Soybean Varieties by Iso-Enzyme Electrophoresis)

B.Sc. (Agriculture), 2nd Class, Upper Division, University of Peradeniya, Sri Lanka (1986)

CAREER SUMMARY:

POST DOCTORAL APPOINTMENTS:

Professor March 2021- to date

Department of Crop Science, Faculty of Agriculture,
University of Peradeniya, Sri Lanka)

Associate Professor Nov.2009- to date

Department of Crop Science, Faculty of Agriculture,
University of Peradeniya, Sri Lanka)

Casual Academic Staff Member July 2010-to June 2012

(School of Land, Crop and Food Sciences

University of Queensland, Queensland, Australia)- Sabbatical Position

Senior Lecturer , 1996 – Nov 2009
(Department of Crop Science, Faculty of Agriculture,
University of Peradeniya, Sri Lanka)

Honorary Research Fellow: 3rd October 2005 to 31st March 2006

University of Aberdeen, Aberdeen, United Kingdom

(Production of Monoclonal antibodies to detect azadirachtin by phage display technology)

PRE DOCTORAL APPOINTMENTS:

Lecturer 1989 - 1996

Department of Crop Science, Faculty of Agriculture,
University of Peradeniya, Sri Lanka

(Principles of horticulture, Fruit and vegetable production, micro-propagation)

Research Officer 1988 - 1989

Department of Agriculture, Sri Lanka

(Agronomy and Plant Nutrition of tropical vegetables)

Temporary Assistant Lecturer 1987 - 1988

Department of Soil Science, Faculty of Agriculture,
University of Peradeniya, Sri Lanka

(Soil Chemistry, Soil Physics, and Soil Fertility)

ACADEMIC AWARDS

- Commonwealth Academic Fellowship tenable in the University of Aberdeen, United Kingdom from 1st October 2005 to 31st March 2006.
- Presidential Awards for Publications in year 2013

NATIONAL CONTRIBUTION

- Member of Steering Committee of Sri Lanka Good Agricultural Practices (SL-GAP) May 2019 to date
- Program Reviewer, UGC –year 2017, 2018 and 2019
- Institutional Reviewer (NASTEC)- Year 2017 PGRC, Gannoruwa and Year 2018- HORDI, Gannoruwa

- Chairperson for the National Committee for Developing SLSI standards for fruits (Mango, Papaya, Apples) and Vegetables from year 2014 to date
- Member of Accreditation Body Established for Implementing Mechanism for Sri Lanka –SL-GAP (Sri Lanka Good Agriculture Practice) in year 2016

PUBLICATIONS: H-INDEX (11-Google Scholar)

Refereed Papers

SD Samaradiwakara, WAH Champa, JP Eeswara (2023) Preharvest foliar spray of plant growth regulators expand the harvest season and improve fruit quality of acid lime (*Citrus aurantifolia* (Christm) Swingle) *Journal of Horticulture and Postharvest Research* 6 (2), 207-220

H Karunarathna, **JP Eeswara**, MCM Iqbal (2023) Effect of Seed Treatments on seed germination and seedling growth of *Madhuca longifolia* var. *longifolia* ("Mee") *Tropical Agricultural Research* 34 (3), 188-199

DBR Kaushalya, **JP Eeswara**, L Jayasinghe (2023) Development of Liquid Culture System for Rapid Multiplication of *Gyrinops walla*. *Tropical Agricultural Research* 34 (1)

KK Ranaweera, MAB Ranatunga, **JP Eeswara**, S Thilakarathne (2022) Regeneration of tea [*Camellia sinensis* (L.) Kuntze] cv. TRI 5001 plants through somatic embryogenesis in a liquid dynamic medium., *Tropical Agricultural Research* 33 (4)

C. K. Pathirana¹, L.T. Ranaweera, T. Madhujith, K. Ketipearachchi, L. Gamlath, **J. P. Eeswara**, S. S. Sooriyapathirana (2020) Assessment of the elite accessions of bael [*Aegle marmelos* (L.) Corr.] in Sri Lanka based on morphometric, organoleptic, and elemental properties of the fruits and phylogenetic relationships. *PLOS ONE*
<https://doi.org/10.1371/journal.pone.0233609> May 22, 2020 (1-20)

C. K. Pathirana¹, U. Attanayake, U. Dissanayake, L. Gamlath,, K. Ketipearachchi, T. Madhujith, **J. P. Eeswara**, (2020). Establishment of a micropropagation protocol for elite accessions of Bale (*Aegle marmelos* (L) Corr.) a Tropical

Hardwood Species, *Advances in Agriculture*, (Hindawi online journal)
<https://doi.org/10.1155/2020/8840386>

C. K. Pathirana¹, T. Madhujith, **J. P. Eeswara**, (2020). of Bale (*Aegle marmelos* (L) Correa) a medicinal tree with immense economic potentia, *Advances in Agriculture*, (Hindawi Online Journal) <https://doi.org/10.1155/2020/8814018>

S. Selvaskanthan, D.B.R. Kaushalya, D.K.N.G. Pushpakumara, L. Jayasinghe and **J.P. Eeswara** (2020), A Comparison of Chemical Profiles of Callus, Plant and Agarwood Extracts of *Gyrinops walla* using Thin Layer Chromatography. *Tropical Agricultural Research* (2020) 31(2): 97-105

C.K. Pathirana, L.T. Ranaweera, S.A.T. Lakshan, T. Madhujith, and **J.P. Eeswara** (2019) Assessment of the contents of a selected macro, micro and toxic elements in ripen bael fruits and tender shoots of water spinach and sweet potato using XRF and ICP-MS methods *Ceylon Journal of Science* 48(1) 67-75
DOI: <http://doi.org/10.4038/cjs.v48i1.7590>

C.K. Pathirana, J.G.K.L. Gamlath, K.W. Ketipearachchi, P.M.C.K. Bandaranayake, W.M.T. Madhujith and **J.P. Eeswara** (2019). Morphological Variation of Bael Fruits (*Aegle marmelos* (L.) Corrêa) among Five Accessions in Three Different Agro-Ecological Regions of Sri Lanka, *Tropical Agricultural Research* Vol. 30 (4): 23 – 33 , DOI: <http://doi.org/10.4038/tar.v30i4.8326>

S.D. Samaradiwakara, W.A.H. Champa and J.P. Eeswara (2019), Harvest Maturity Affects Postharvest Quality of Lime Fruits (*Citrus aurantifolia* Swingle), *Tropical Agricultural Research* Vol. 30 (4): 125 – 131, DOI: <http://doi.org/10.4038/tar.v30i4.8334>

C. K. Pathirana, C. H. W. M. R. B. Chandrasekara, S. R. M. R. Attanayake², W. A. P. Weerakkod, **J. P. Eeswara** and P. C. G. Bandaranayake (2018). Optimization of DNA extraction and PCR protocols for plants with high Phenolics: Bael, Mango, Pomegranate as examples, *Ceylon Journal of Science* 47(1) 2018:43-48. DOI: <http://doi.org/10.4038/cjs.v47i1.7485>

D.M.I.C.B. Dassanayake, S.A. Krishnarajah¹ and **J.P. Eeswara** (2018). Development of an Effective Propagation Protocol for *Osbeckia octandra* (L.) DC. (Heen Bovitiya), *Tropical Agricultural Research* Vol. 29 (2): 123 – 134 (2018)

C.K. Pathirana, A.M.U.R.K. Attanayake¹, D.M.U.S.K. Dissanayake, J.G.K.L. Gamlath, K.W. Ketipearachchi, T. Madhujith, P.C.G. Bandaranayake⁴ and **J.P. Eeswara** (2018). Effect of Phenological Growth Stage on Establishment of *In-vitro* Cultures of Bael (*Aegle marmelos* (L.) Corr.) *Tropical Agricultural Research* Vol. 29. (3): 268 – 275

S. Selvaskanthan, D.K.N.G. Pushpakumara and J.P. **Eeswara** (2018). Development of a Protocol for *In- vitro* Establishment of *Gyrinops walla*, *Tropical Agricultural Research* Vol. 29 (3): 330 – 336

Amararathna D.I.M., Weerakkody W.A.P., Madujith, T and Eeswara, J.P. (2015). Agro-ecological region based variations in the antioxidant activity of Tamarind (*Tamarindus indica* L.) fruit pulp. *Acta Horticulturae –XXIX- International Horticulture Congress Proceedings of VI International Symposium on Human Health-Effect of Fruits and Vegetables*. Eds: T.J. O’Hare and M.e. Netzel 1106: 67-72

Tennakoon S., Peiris S.E. and Eeswara, J.P. (2015). In vitro Regeneration of *Exacum trinervium*, *Acta Horticulturae –XXIX-International Horticulture Congress- Proceedings of International Symposium on Ornamental Horticulture in the Global Green House*. Ed: R.A. Criley, 1104: 237-243

Abethilakarathna, P.D., Fonseka, R.M., Eeswara J.P. and Herath H.M.D.K. (2014). Refractive index and reflection in three leaf categories of Strawberry (*Fragaria xananassa* Duch). *Tropical Agricultural Research*, Vol 25 (2); 261-265

L..H. Sumanasiri, S. A. Krishnarajah and **J.P. Eeswara** (2013). Effect of gibberellic acid (GA₃) on growth and flowering of *Didymocarpus humoldtianus* Gardn (Ceylon Rock Primrose). *Scientia Horticulturae*. 159:29-32.

Ranaweera K.K., Gunasekara M.T.K. and **Eeswara J.P. (2013)**. Ex Vitro rooting: A low cost micropropagation technique for for Tea (*Camellia sinensis* (L.) O. Kuntz) hybrids. *Scientia Horticulturae*. 155: 8-14.

Vidanapathirana R.P and **Eeswara J. P (2013)**. Gibberellins (GA₃) and benzylaminopurine (BAP) affect differently the postharvest life of *Calathea zebrina* and *Hosta sieboldiana*. *Internationa Journal of Postharvest Technology and Innovation 3(1): 41-50*. Copyright 2013, Inderscience Enterprises Ltd

Abeytilakarathna, P.D., Fonseka R.M., **Eeswara, J.P.** and Wijethunga K.G.N.A.B. (2013). Relationship between total solid content and Red, Green and Blue Colour Intensity of Strawberry (*Fragaria x ananassa* Duch). *The Journal of Agricultural Sciences*, 8(2):82-90

Subhashini R.M.B., Amarathunga, N.L.K., Krishnarajah, S.A and **Eeswara J.P.** (2011). Effect of benzylaminopurine, Gibberellic Acid, Silvernitrate and Silver Thiosulphate on Postharvest Longevity of Cut Leaves of *Dracaena*. *Ceylon Journal of Science (Bio. Sci.)* 40(2):157-162.

P.A.I.U.Dharmasena, D.P.Krunananda and **Eeswara J.P.** (2011). Effect of gibberellic acid (GA₃) and sugar on *in vitro* cormel formation, multiplication and *ex vitro* sprouting of gladiolus variety Princess Lee. *Tropical Agricultural Research* Vol 23 (1):1-7

Farzana A.R.F, Bandara R.M.I.E.K, Aluwihare P.C. and **Eeswara J.P.** (2010) *In vitro* Regeneration of shoots from *Garcinia quaesita* leaf explants, *Journal of National Science Foundation, Sri Lanka* 38(3) 157-163.

- Wanduragala P.S.B., **Eeswara J.P.** and de Costa W.A.J.M. (2009). The electro magnetic potential gradient on the uneven growth of the plants. *Tropical Agricultural Research*. Vol. 21(3). 321-330
- Wijayarathne D.K., Wijesundara D. S., Rubasinghe A. M. K., and **Eeswara, J.P.** (2009), Effect of Growing Medium, Pruning and Pinching on Growth and Flowering of *Chirita moonii Gardner*. *Sri Lankan Journal of Agricultural Sciences* 46: 84-93.
- Wijewardhana, R.M.N., Peries. S.E.P. and **Eeswara J.P.** (2009) Early detection of variation among *Gerbera jamesonii* seedlings by isozyme electrophoresis. *Sri Lankan Journal of Agricultural Sciences* 46: 41-50.
- Vithana M.D. K. and **Eeswara J.P.** (2009). An efficient system for surface sterilization and Establishment of In Vitro cultures of *Cana indica* (Buthsarana). *Sri Lankan Journal of Agric .Science*, Vol 46, 78-82
- Heenkenda H.M.S., Gunathilake B.L., **Eeswara, J.P.** (2009), Root Stock-Scion interrelation of selected Anona Species. *Journal of National Science Foundation Sri Lanka* 37(1) 71-75
- Ranawana S.R.W.M.C.J.K. and **Eeswara, J.P.** (2008), Effect of Type and Size of Stem Cuttings and Propagation Media for Rapid Multiplication of Pineapple, *Tropical Agricultural Research*. Vol. 20. 388-394.
- Gunathilake P.C., Abayagunawardhana N., Wimalasiri S., Sangakkara, U.R. and **Eeswara, J.P.** (2008). Direct shoot organogenesis from nodal and leaf explants of *Munronia pinnata* (Wall) Theob: a valuable medicinal plant. *Tropical Agricultural Research*. Vol. 20: 213-226.
- Farzana A. R. F., Palkadapala P. G. V. N., Meddegoda K. M. M. N, Samarajeewa P. K. and **Eeswara J.P.** (2008). Somatic Embryogenesis in Papaya (*Carica papaya* L.) Variety 'Rathna'. *Journal of National Science Foundation of Sri Lanka*, 36 (1): 41-50. (This article has been cited 1 time in Web of Knowledge – Thompson Reuters- SCI expanded)
- Ranasinghe R.A.T.D., Abayagunawardana A.G.N.I, Hettiarachchi, H.I.D.D, Farzana A.R.F. and **Eeswara J.P., (2006)** In Vitro Flower Induction in *Gerbera (Gerbera jamesonii)*. *Tropical Agricultural Research*. Vol. 18. 376-385. (This article has been cited 1 time in Web of Knowledge –Thompson Reuters- SCI expanded) (This article has been cited 1 time in Web of Knowledge –Thompson Reuters- SCI expanded)
- Balasooriya B.M.C., Champa W.A.H., Palipana K.B. and **Eeswara J.P.** (2006) Effect of Hydrocooling on prolonging shelf-life of Banana: variety Ambul. *Sri Lankan Journal of Agricultural Sciences*; 43 (66-81).
- Pathmarajah K.A.B., **Eeswara J.P.** and Fonseka H. (2005) Isozymic and Morphological Characterization of Brinjal (*Solanum melongina* L) Accessions and Cultivars available in Sri Lanka. *Sri Lankan Journal of Agricultural Sciences.*; 42: 20-33.

Champa W.A.H., Maralanda G.P.K., Fernando M.D., Palipane K.B., Weerakkody W.A.P. and **Eeswara J.P.** (2005). Development of maturity indices for harvesting of drumsticks (*Moringa olifera*) variety Raan Murunga., Innovative approaches in Postharvest Engineering and technology, Symposium proceedings, 20, Dec. 2005, Peradeniya, Srilanka

Sarananda K.H., Kumari U.N.G.C., **Eeswara J.P.** and Rathnayake R.M.N.D. (2004). Artificial Ripening to Reduce Postharvest Losses of Avocado. *International Journal of Tropical Agricultural Research and Extension* 7:144-149.

Allan E.J., **Eeswara J.P.**, Jarvis A.P, Mordue (Luntz) A.J., Morgan E.D. and Stuchbury T. (2002). Induction of Hairy Root Cultures of *Azadirachta indica* A. Juss. And their production of Azadirachtin and other important insect bioactive metabolites . *Plant Cell Reports*, 21, 374-379. (This article has been cited 19 times in Web of Knowledge –Thompson Reuters- SCI expanded)

Eeswara J.P. and Peiris B.C.N. (2001): Isoenzyme as Markers for Identification of Mungbean (*Vigna radiata* L. Wilczek). *Seed Sci. & Technol.*, 29, 249-254. (This article has been cited 2 times in Web of Knowledge –Thompson Reuters- SCI expanded)

Eeswara J.P., Allan E.J, Mordue (Luntz) A.J., Stuchbury T., (1999). A Procedure for Sterilizing Leaf Explants Collected from Wild Neem (*Azadirachta indica* A. Juss) Trees. *Journal of National Science Foundation of Sri Lanka*, 27(2), 131-136. (This article has been cited 3 times in Web of Knowledge –Thompson Reuters- SCI expanded)

Eeswara J.P. and Peiris B.C.N. (1998): Isoenzyme Electrophoresis and Morphological Characterization of Selected Soybean varieties in Sri Lanka. *Sri Lankan Journal of Agricultural Sciences* 35, 67-78.

Eeswara J.P., Allan E.J, Powell A.A., (1998). The Influence of Stage of Maturity, Moisture Content and Storage Temperature on the Survival of Neem (*Azadirachta indica* A. Juss) seed in storage. *Seed Sci. & Technol.*, 26, 299-308. (This article has been cited 9 times in Web of Knowledge –Thompson Reuters- SCI expanded)

Eeswara J.P., Stuchbury T., Allan E.J, Mordue (Luntz) A.J., (1998). A Standard Procedure for the Micro-propagation of Neem Tree (*Azadirachta indica* A. Juss). *Plant Cell Reports*, 17, 215-219. (This article has been cited 16 times in Web of Knowledge –Thompson Reuters- SCI expanded)

Eeswara J.P., Mordue (Luntz) A.J., Stuchbury T., Allan E.J (1997). Azadirachtin, Salanin and nimbin contents of seeds and callus of Neem, (*Azadirachta indica* A. Juss). In: Practice Oriented Results on Use and Production of Neem Ingredients and Pheromones V(Eds. Kleeberg h. and Zebitz P.W.), Trifolio M. GmbH, 251-261.

Eeswara J.P., Mordue (Luntz) A.J., Stuchbury T., Allan E.J (1996). Biological Activity and the Production of Azadirachtin by in Neem, Callus. *Tropical Agricultural Research*. Vol. 8., 228-239

Allan E.J., **Eeswara J.P.**, Johnson S., Mordue (Luntz) A.J., Morgan E.D. and Stuchbury T. (1994). The Production of Azadirachtin by *In Vitro* Tissue cultures of Neem, *Azadirachta indica*, Pesticide Sci., 42, 147-152.

(This article has been cited 24 times in Web of Knowledge –Thompson Reuters-SCI expanded)

Eeswara J.P. and Peiris B.C.N. (1994): Identification of Cowpea Cultivars (*Vigna unguiculata* L Walp) by Isoenzyme Electrophoresis. Tropical Agricultural Research. Vol. 6., 185-192

Communicated Papers

Samaradivakara, S.D., Champa W.A.H. and Eeswara, J.P. (2020). Effect of thermal summation on harvest maturity of Citrus aurantifolia swingle). Acta Horticulturae 1278. ISHS 2020. Proceedings of the IV the International conference on Postharvest and Quality Management of Horticultural Products of Interest for Tropical Regions (Ed. Benaragama C.K. et al.) ((Pages 11-15)

Gunasekara S.G.V.D.H, **Eeswara, J.P.**, Ratnayake, R.H.M.K, and Herath H.M.S.P. (2018). Antioxidant capacity, phenolics and ascorbic acid content of cashew apples of recommended cashew (*Anacardium occidentale* L) varieties in Sri Lanka. Proceedings of the 1st National Symposium on Sustainable Plantation Management, (Ed. P. Dharmasena, J. Banda, A.Nainanayake and S. Samaraweera) Published by National Institute of Plantation Management, Sri Lanka

Samaradivakara, S.D., Champa W.A.H. and Eeswara, J.P. (2018). Effect of harvest maturity on postharvest life of lime (*Citrus aurantifolia* swingle) under ambient storage. Proceedings of the International Research Symposium on Postharvest Technology (October 2018), Published by the Research and Development Centre, National Institute of Postharvest Management, Anuradhapura (Pages 11-15)

Ruwanmali, W.M.D., **Eeswara, J.P** and Ratnayake, R.H.M.K. (2016) Anti-oxidant properties and mineral contents of selected plant species used in Green Leafy Porridge, Kolla Kena, Proceeding of 15th Agricultural Symposium, 28-29th June 2016, Faculty of Agriculture and Plantation Management, Wayamba University of Sri Lanka. Pages 326-330

Tennakoon S., Peiris S.E. and **Eeswara, J.P.** (2015). In vitro Regeneration of *Exacum trinervium*, Acta Horticulturae –XXIX-International Horticulture Congress- Proceedings of International Symposium on Ornamental Horticulture in the Global Green House. Ed: R.A. Criley, 1104: 237-243

Amararathna D.I.M., Weerakkody W.A.P., Madujith, T and **Eeswara, J.P.** (2015). Agro-ecological region based variations in the antioxidant activity of Tamarind (*Tamarindus indica* L.) fruit pulp. *Acta Horticulturae –XXIX-* International Horticulture Congress Proceedings of VI International Symposium on Human Health-Effect of Fruits and Vegetables. Eds: T.J. O’Hare and M.e. Netzel 1106: 67-72

Vithana M.B.P., **J.P. Eeswara**, W.A.P.Weerakkody, L.D.B. suriyagoda (2012). Interactive effects of gibberelline and fertilizer on growth and flowering of gerbera. *Proceedings of the National Symposium on Floricultural Research*, Pages 39-46).. Presented at National Symposium on Floricultural Research, on 16th November 2012, Royal Botanic Garden, Peradeniya

Nimalka, J.H.K.T. **Eeswara, J.P.**, Weerakkody W.A.P., Suriyagoda, L.D.B. (2012). Selection of a suitable nutrient formula for given gerbera types in mid country intermediate zone. *Proceedings of the National Symposium on Floricultural Research*, Pages 47-52. Presented at National Symposium on Floricultural Research, on 16th November 2012, Royal Botanic Garden, Peradeniya

Ranaweera K.K., Gunasekera M.T.K., and Eeswara J.P. (2012). Integration of Low Cost Micropropagation Technique to Accelerate the breeding Program of Tea (*Camellia sinensis* (L.) O. Kuntze). *Proceedings of the Fourth Symposium on Plantation Crop Research* September 20-21, 2012. Eds. Hettiarachchi L.S.K. and Abeysinghe I.S.B. 35-44

Eeswara J.P. (2006). Isolation of anti-Azadirachtin Monoclonal Antibodies Using Phage Display Technology. *Neem Work Shop*, Organized by National Science Foundation, Sri Lanka on 3-4th August 2006.

Kumari S.G.C.N., Sarananda K.H. and **Eeswara J.P.** (2005). Effect of ethylene on development of bitterness in cucumber. *Innovative approaches in Postharvest Engineering and technology*, Symposium proceedings, 20, Dec. 2005, Peradeniya, Sri Lanka.

Siriwardhana K.P.D., Karunanayake, K.P.W.K. and **Eeswara J.P.** (2002). Improved Crop Establishment for Higher Productivity of Chilli (*Capsicum annum* L.). *Annals of the Sri Lanka Department of Agriculture*, 4, 429-430

Sarananda K.H., Hettiarachchi, W.P., Samarakoon S.J.M.V.L and **Eeswara J.P.** (2000). Use of Ethrel to Induce Ripening Process of Banana. *Proceedings of the Annual Symposium of the Department of Agriculture*, Sri Lanka, 2, 227-283

Eeswara J.P. and Balasooriya W. (2000). Rambutan and its Economic Significance in Sri Lanka. *Proceedings of the Tenth National Workshop on Multipurpose Trees*, Ed. Gunasena H.P.M., 118-140

Athukorala A.D.D., Krishnaraja S.A. and **Eeswara J.P.** ((2001). Vegetative Propagation of *Zamioculcas zamifolia*, *Botanical Garden News Letter*, Vo1., (4).

Marambe B., Gunasena H.P.M., **Eeswara J.P.** and Kumuduni K.A. (1998). Effect of stage of maturity of Neem (*Azadirachta indica* A. Juss) seeds on Germination and Physiological Development during Cold Storage. Proceedings of the Final Work Shop, University of Peradeniya-Oxford Forestry Institute Link Project. Ed. Gunasena H.P.M. 64-76

Mordue (Luntz) A.J., **Eeswara J.P.**, Wickramananda I.R., Johnson S., Morgan E.D., Stuchbury T. and Allan E..J (1996). Neem Metabolites with Insect Antifeedancy and growth Regulatory Properties Produced in Tissue cultures. Abstracts, International Neem Conference, February 4-9, 1996, University of Queensland, Australia.

Eeswara J.P. (1996). The Production of Insect Antifeedant Azadirachtin by Plant Cell and Tissue Cultures of Neem (*Azadirachta indica*) Tree. Presented at the Seminar on " Agricultural biotechnology in Sri Lanka, September 20, 1996, National Science Foundation Auditorium

Allan E.J., **Eeswara J.P.**, Johnson S., Kearney M-L, Mordue (Luntz) A.J., Morgan E.D. and Stuchbury T. (1994). Production of Azadirachtin by In Vitro Cultures of Neem Tree. Abstract VIII International Congress of Plant Tissue and Cell Culture, Italy, June 12-17, 1994

PUBLISHED IN ABSTRACT FORM

Bulathkandage, M. **Eeswara, J.P.**, Madujith, T. Gunawardena R., Chathura, K.D. and Jayapala, R. (2019). Determination of harvesting indices and harvesting stage of *Anona muricata* L. (Soursop). Annals of the Department of Agriculture, Volume 21, Page 10

Selvaskantha, S., Kehelpannala C., Jayasinghe U.L.B. , Pushpakumara D.K.N.G., and **Eeswara J. P.** (2018). Callus induction using leaf explants and development of thin layer chromatographic fingerprint profile for secondary metabolites of *Gyneros walla* Gaertm. Book of Abstracts, South Asian Biotechnology Conference 28th to 30th March, Colombo, Sri Lanka

Ruwanmali, W.M.D., Rathnayake, R.H.M.K. and **Eeswara J.P. (2018)**. Antioxidant and nutritional properties of five selected leafy vegetables. Proceedings of the Asian Symposium on medicinal plants, spices and other natural products, Page 158, 12th-14th December 2018, Colombo, Sri Lanka

Pathirana, C.K. and Eeswara, J.P. (2018). Inhibitory activity of ripen fruit pulp of *Aegle marmelos* (Lin) correa on model bacterial pathogen. Proceedings of the Asian Symposium on medicinal plants, spices and other natural products, Page 172, 12th-14th December 2018, Colombo, Sri Lanka

Pthirana C.K., Ranaweera L.T., Lakshan, S.A.T., Madhijith, T., and Eeswara J.P. (2018). Determination of heavy metal content of five accessions of bale fruits grown in Sri Lanka by X-Ray fluorescence analysis. Proceedings of the Asian Symposium on medicinal plants, spices and other natural products, Page 237, 12th-14th December 2018, Colombo, Sri Lanka

Siriwardhana K.P.D., Karunanayake, K.P.W.K. and **Eeswara J.P.** (2002). Improved Crop Establishment for Higher Productivity of Chilli (*Capsicum annum* L.). Annals of the Sri Lanka Department of Agriculture, 4, 429-430

Mordue (Luntz) A.J., **Eeswara J.P.**, Wickramananda I.R., Johnson S., Morgan E.D., Stuchbury T. and Allan E.J (1996). Neem Metabolites with Insect Antifeedancy and growth Regulatory Properties Produced in Tissue cultures. Abstracts, International Neem Conference, February 4-9, 1996, University of Queensland, Australia.

Allan E.J., **Eeswara J.P.**, Johnson S., Kearney M-L, Mordue (Luntz) A.J., Morgan E.D. and Stuchbury T. (1994). Production of Azadirachtin by In Vitro Cultures of Neem Tree. Abstract VIII International Congress of Plant Tissue and Cell Culture, Italy, June 12-17, 1994

BOOKS

1. Eeswara J.P. (2009), Plant Tissue Culture, Published by IRQUE project, Faculty of Agriculture, University of Peradeniya, ISBN 978-955-51682-0-5, Number of Pages 108
2. Eeswara J.P. and Palamakumbura P. (2009). Plant Growth and Preparation of Plant Material, Published by Open University of Sri Lanka, Nawala, ISBN-978-955-23-1092-8. (Author of 5 chapters out of 7)

BOOK CHAPTERS

R.H.G. Ranil, D.K.N.G. Pushpakumara, P.C.G. Bandaranayake, W.M.T.P. Ariyaratne, D.S.A. Wijesundara, R.M.S.R. Chamara and **J.P. Eeswara**, (2019) *Lasia Spinosa* (L) Thw. , A high potential underutilized aroid in Asia: A step towards utilizing neglected crop genetic resources for food and Nutritional Security. In Landscaping Agroforestry systems: A way forward for natural resource Utilization , (Pages 124-128). Published by the Institute of Biology, Colombo, Sri Lanka

Pushpakumara D.K.N.G., Medagoda, I. and **Eeswara J.P.** (2007) Goraka (*Garcinia quaesita* Pierre), In. Underutilized Fruit Trees in Sri Lanka Vol. 1 . pp 303-323, (Eds. Pushpakumara, D.K.N.G., Gunasena H.P.M. and Singh V.P.). A Publication of World Agroforestry Centre, South Asia Regional Office, New Delhi India, National Multipurpose Tree Species Research Network of Sri Lanka, Sri Lanka Council for Agriculture Research Policy and Asian Centre for Underutilized Crops, Sri Lanka

EDITORIAL WORK

Member of Editorial Board Proceedings of the National Symposium on Floricultural Research, (2015). Royal Botanic Garden, Peradeniya

Editor in Chief, Tropical Agricultural Research. Vol. 21 (2009)

Member of Editorial Board, Tropical Agricultural Research. Vol. 20. (2008)

Member of Editorial Board, Crop Science Student research Abstracts 2007. Department of Crop Science Faculty of Agriculture, University of Peradeniya, 108-110, ISSN 1800-2366

PERSONAL DEVELOPMENT

Training Programme on Development of Computer Base Learning Material Conducted by the Faculty of Agriculture, University of Peradeniya, Sri Lanka at the Post Graduate Institute of Agriculture, Peradeniya from 26th September 2006 to 30th September 2006.

Training Programme on "Large Group Teaching" conducted by Dr. Stephen Bostock, International Consultant on curriculum development and revision, Keels University, UK. This was organized by the IRQUE project of the Faculty of Agriculture, University of Peradeniya in year 2005.

Training programme on "Risk Assessment and Management of Genetically Modified Organisms conducted by National Bio-Safety Project of Sri Lanka, Central Environmental Authority at Trans Asia Hotel, Colombo, Sri Lanka (15-16th October 2004)

Training programme in "Use of Bioreactors in Plants". By Prof. Allan Scragg. University of West England, United Kingdom. Training Workshop Conducted by the Agricultural Biotechnology Centre, University of Peradeniya, Sri Lanka (15-17 September 2004)

Comprehensive course in Polymerase Chain Reaction Technology. School of Gene Technology, Genetech, 54, Kithulwatta Road, Colombo 8, Sri Lanka, 29 to 31st March 2004

Agrobacterium Mediated and Biolistics Transformation in Crop improvement, Training Workshop Conducted by the Agricultural Biotechnology Centre, University of Peradeniya, Sri Lanka (22-23 December 2003)

Certificate Course in Gene Technology, School of Gene Technology, Genetech, 54, Kithulwatta Road, Colombo 8, Sri Lanka, October 2003-Merit Pass

(DNA extraction, DNA Cloning, Library Constructions, Transformation, Restriction Enzyme Digestions and RFLP, Polymerase Chain Reaction etc.)

Training in the use of liquid chromatography/mass spectrometry for the selective detection of insecticidal triterpenoids from neem cell cultures at Max-Planck Institute of Chemical Ecology, Jena, Germany from 18 April 2001 to 15th May 2001.

UK-University of Peradeniya Education Training Workshop on Teaching Methodologies, Sponsored by the Overseas Development Administration and Conducted by the Agricultural Education and training Unit, Wolverhampton Polytechnic and the Faculty of Agriculture, University of Peradeniya held at the Faculty of Agriculture, University of Peradeniya, Sri Lanka from January 20th to February 1st 1992.

Research problems Identification and proposal Preparation Training Workshop Conducted by Winrock International, F/FRED, held at the Faculty of Agriculture University of Peradeniya, Sri Lanka from march 26-30, 1990

TEACHING EXPERIENCE:

Senior Lecturer (Grade I), 2002 – to date

Senior Lecturer (Grade II), 1996 - 2002
Department of Crop Science, Faculty of Agriculture,

University of Peradeniya, Sri Lanka

Visiting Lecturer

Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka

Visiting Lecturer

Post Graduate Institute of Science, University of Peradeniya, Sri Lanka

Visiting Lecturer

Faculty of Science, University of Peradeniya, Sri Lanka

Visiting Lecturer

Faculty of Agriculture, University of Ruhuna, Sri Lanka

External Examiner

Faculty of Agriculture, University of Rajarata, Sri Lanka

External Examiner

Faculty of Agriculture, University of Sabaragamuwa, Sri Lanka

Consultant for the Development of Horticulture Course

Open University of Sri Lanka, Nawala

ADMINISTRATIVE EXPERIENCE:

- Chairperson, Board of Study Crop Science Post Graduate Institute of Agriculture, University of Peradeniya from Januaryr 2013

- Congress Coordinator-2009, 21st Annual Congress, Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka
- Member of the Faculty of Agriculture student welfare committee
- Course Coordinator-M.Sc. in Floriculture and Landscape Horticulture, Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka (Year 2001-2002)
- Member of Board of Study Crop Science, Post Graduate Institute of Agriculture, University of Peradeniya from January 2004- October 2005
- Secretary, Board of Study Crop Science Post Graduate Institute of Agriculture, University of Peradeniya from October 2004 to October 2005
- Member of Biotechnology Study Group, The Agricultural Biotechnology Centre University of Peradeniya

TRAINING PROVIDED ON SPECIAL TECHNIQUES:

- Coordinator and Resource person for the pilot project for micropropagation based floricultural entrepreneur development in selected districts in Collaboration with the Department of Manpower and Employment, Battaramulla
- (Four workshops were conducted to train 100 participants in year 2017 and 2018)
- Resource Person- Sixth YFS Symposium-2017 Evaluation panels
- Training program for GCE A/L Teachers of the North Western Province (19th December to 20th December 2017)
- Evaluator of the Project Terminal Reports for Sri Lanka Council for Agriculture Research Policy- 2016; Projects Titled: Technology Innovation for large scale in vitro multiplication of Cardamom, Cinnamon, Black Pepper and Ginger and In vitro clonal propagation of black pepper (*Piper nigrum* L.) Local selection with high yield and quality
- Chairperson-Technical Session 02 of the 8th National Symposium on Floriculture Research conducted on 21st December 2015 at the Royal Botanic Gardens, Peradeniya
- Evaluator for National Research Council Research Grants from 2015
- Resource person-certificate course on technological essentials for quality assured seed production in annual food crops in Sri Lanka, 26th February- 1st March 2014, Postgraduate Institute of Agriculture, University of Peradeniya
- Resource Person - Research Forum of Biotechnology Working Group, Coconut Research Institute, Sri Lanka- 2009, 2016, 2017, 2018

- Resource Person - Research Forum of Faculty of Graduate Studies, University of Sri Jayawardhanapura, Nugegoda, Sri Lanka- 14th August 2008
- Resource Person Work Shop, Organized by National Science Foundation, Sri Lanka on 3-4th August 2006, Presented a paper titled Isolation of anti-Azadirachtin Monoclonal Antibodies Using Phage Display Technology. Neem
- Resource Person Residential Training Program for Agricultural Extension Field Officers from the Republic of Maldives-5th June 2006
- Resource Person- Training Programme on Plant Tissue Culture conducted by Agricultural Biotechnology Centre, University of Peradeniya, Sri Lanka (1-12 August 2005)
- Resource Person- Regional Training Programme on Biodiversity and Conservation of Medicinal Plants conducted by Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka (12 August-11 September 2002)
- Resource Person at the workshop on Agricultural biotechnology in Sri Lanka, September 20, 1996, National Science Foundation Auditorium) Presented a Paper on The Production of Insect Antifeedant Azadirachtin by Plant Cell and Tissue Cultures of Neem (*Azadirachta indica*) Tree.
- Micro propagation and tissue culture techniques for technical staff of the Faculty of Agriculture, University of Peradeniya
- Resource Person – Advanced Level School Teacher Training Programmes conducted by the Faculty of Agriculture, University of Peradeniya, Sri Lanka.

PUBLICATIONS REVIEWS:

Reviewer of contributions to:

- Journal of Tropical Forest Science, Forest Research Institute, Malaysia, Kepong, 5209, Kuala Lumpur, Malaysia
- Aries Kovor Memorial Symposium: Innovation in Plant Sciences through Multidisciplinary Research
- Journal of Tropical Agricultural Research, Post Graduate Institute of Agriculture, University of Peradeniya
- Proceedings of the Annual Symposium of the Department of Agriculture, Sri Lanka
- Journal of National Science Foundation, Sri Lanka
- Ceylon Journal of Science (Bio. Sci)

Postgraduate students supervised

PhD. (Completed)

S.Selvaskanthna (2020)

Thesis Title: **K.K. Ranaweera (2021)**

Thesis Title: DEVELOPMENT OF ECONOMICALLY VIABLE RAPID IN VITRO PLANT PRODUCTION PROGRAM FOR NEW CULTIVARS OF TEA (*Camellia sinensis* (L.) O. Kuntze), Postgraduate Institute of Agriculture, University of Peradeniya, Year of Completion-2021

S.Selvaskanthna (2020)

Thesis Title: Micropropagation and Production of Agarwood Fragrance Compounds by plant cell culture of *Gyrinops walla*, Postgraduate Institute of Agriculture, University of Peradeniya, Year of Completion-2020

C.K. Pathirana (2019)

Thesis Title: Morphological, Biochemical and Molecular Characterization of Fruits and Rapid Multiplication of Five Selected Bale Accessions (*Aegle marmelos* (Lin) Correa), Postgraduate Institute of Agriculture, University of Peradeniya, Year of Completion-2019

P. D. Abeythilakarathna (2018), Research Officer, Regional Agricultural Research Station, Rahangala

Thesis Title- Manipulation of Agronomic Practices to Optimize the Yield and Quality of Strawberries Growing in Sri Lanka, Postgraduate Institute of Agriculture, University of Peradeniya 2018

P.S.B. Wanduragala (2013), IFS, Kandy

Thesis Title- The effect of electromagnetic potential gradients on the un-even distribution of auxins in plants. Research Completed (NRC Funded Research). Year of Completion 2013

MPhils (Completed)

H. G. M. K. Karunarathna (2022)

Thesis Title – Multiplication of *Madhuca longifolia* (Mee) and *Manilkara hexandra* (Palu), by plant tissue culture methods Postgraduate Institute of Agriculture, University of Peradeniya. Year of Completion-2022

S.D. Samaradivakara (2020)

Thesis Title –Investigation of Fruit Phenology and Preharvest Foliar Treatments of Growth Regulators on Fruit Quality and Postharvest Life of Lime (*Citrus aurantifolia* Swingle), Postgraduate Institute of Agriculture, University of Peradeniya. Year of Completion-2020

D.M.C.I.B. Dassanayake (2019)

Thesis Title- Manipulation of growth and Flowering of Heen bovitiya (*Osbeckia octandra*) as a Flowering ornamental Plant Postgraduate Institute of Agriculture, University of Peradeniya, Year of Completion-2019

T.M.P. Tennakoon (2015), School of Agriculture, Department of Agriculture, Kundasale.

Thesis Title- Development of Binara (*Exacum trinervium*) as a Potted ornamental plant by regulation of growth and flowering, Postgraduate Institute of Agriculture, University of Peradeniya

K.K.Ranaweera (2011), Tea research Institute, Sri Lanka

Thesis Title- Development of Cost Effective Micropropagation Technique for Rapid Multiplication of Hybrid Tea (*Camellia sinensis* (L.) O. Kuntze)-Year of Completion 2011, Postgraduate Institute of Agriculture, University of Peradeniya

P. M. P. C. K. Gunathilake (2006), Department of Crop Science, Faculty of Agriculture, University of Peradeniya

Thesis Title- Cultivation of *Munronia pinnata* (Binkohomba): Some aspects of micropropagation, agronomic practices and phytochemical screening. Year of Completion (2006) Postgraduate Institute of Agriculture, University of Peradeniya

MSc (More than 1 year)

Warnitha S. Wickramasooriya (2007), Science College, Matale

Introduction of plant tissue culture practical for G. C. E .Advance Level Science students, Year of Completion, 2007, Master of Science in Science Education Post Graduate Institute of Science, University of Peradeniya

COMPUTER LITERACY:

Excellent working knowledge of the following programs on a PC environment;
Microsoft Office Suite (Word, Excel, PowerPoint,), Statistical Packages Minitab.

Referees:

1. **Professor J.M. de Costa**, Department of Crop Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka
colinpeiris@yahoo.co.uk).
2. **Professor A.J.Mordue Luntz**, Prof. of Emeritus, Dept. of Zoology, University of Aberdeen, Aberdeen, AB24 2TZ, UK.(Tel 01224 272883,
a.j.mordue@abdn.ac.uk).