

Curriculum Vitae

THIYAGU DEVARAJAN
Industrial Crops Research Centre,
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Education:

M. Sc., Plant breeding, University Putra Malaysia, 2012

Concentration: Quantitative genetics, Varietal evaluation

Dissertation: Genetic diversity and stability analysis of sweetpotato (*Ipomoea batatas* Lam. L.)
germplasm for leafy vegetable quality

B. Sc. Forestry, Universiti Putra Malaysia, 1999

Concentration: Taxonomy, Botany

Dissertation: Flora of Paya Indah, A Peat Swamp Forest in Peninsular Malaysia.

Experience:

Research officer (plant breeder), 2002 – present
MARDI

Assistant manager, 2000 – 2001
IOI Plantation

Research area & skills:

Medicinal plants (*Centella asiatica*, *Orthosiphon stamineus*, *Ficus deltoidea*)

Sweetpotato (*Ipomoea batatas*)

Rice (*Oryza sativa*)

Cassava (*Manihot esculenta*)

Sorghum (*Sorghum bicolor*)

SAS statistical programs

Presentations:

Thiyagu D., Theeba M., Illani Zuraihah I., Mat Ti O. and Nor Fadilah A.H (2019). Yield and growth performances of sweet potato (Vitato) towards biochar compost amendments under sandy soil.

Thiyagu, Devarajan (2018). Determination of lethal dose for gamma rays induced mutagenesis in cassava (*Manihot esculenta* Crantz.). Paper presented at 4th International Plant Breeding Conference, 13-15 November, Hotel Bangi, Bangi.

Thiyagu, Devarajan (2018). Preliminary determination of lethal dose for gamma rays induced mutagenesis in purple coloured root sweetpotato (*Ipomoea batatas* (L.) Lam). Paper presented at 4th International Plant Breeding Conference, 13-15 November, Hotel Bangi, Bangi.

Thiyagu, Devarajan (2015). Development of purple sweetpotato for food and industrial use. Paper presented at Regional Agricultural Extension Workshop on “Crop-Soil-Water Management for Under-Utilized Crops”, 9-13 February, Bangladesh Institute of Nuclear Agriculture (BINA), Dhaka.

Thiyagu, Devarajan (2014). Evaluation of gamma irradiated purple sweetpotato accessions at bris soil. Paper presented at 2nd International Plant Breeding Seminar, 14-15 October, UPM, Serdang.

Thiyagu, Devarajan (2012). Genotype by environment interaction of sweetpotato genotypes for leafy vegetable. Paper presented at the First Plant Breeding Seminar, 3-5 July, Agro-Biotechnology Institute (ABI), Serdang.

Thiyagu, Devarajan (2011). Genetic variability for 22 sweetpotato accessions in germplasm selected for vegetable use. Paper presented at the 9th Malaysia Genetic Congress, 28-30 September, Pullman Hotel, Kuching.

Publications:

Ali, G., R. Asmah, Z.E. Hawa Jaafar and Thiyagu, D. (2014). Evaluation of bioactive compounds, pharmaceutical quality, and anticancer activity of curry leaf (*Murraya koenigii* L.). *Journal of Evidence-Based Complimentary and Alternative Medicine*, vol. 2014, article id. 873803, 8 pgs.

Thiyagu, D., M.Y. Rafii, M.A. Latiff, M.A. Malek and G. Sentoor (2013). Genetic variability of sweetpotato (*Ipomoea batatas* Lam.) genotypes selected for vegetable use. *Journal of Food, Agriculture & Environment*, vol. 11 (2), pp. 340-344.

Thiyagu, D., M.Y. Rafii, T.M.M. Mahmud, M.A. Latiff, M.A. Malek (2013). Genotype by environment assessment in sweetpotato as leafy vegetable using AMMI model. *Pakistan Journal of Botany*, 45 (3), pp. 843-852.

Thiyagu, D., W.M. Wan Zaki, M. Dilipkumar and S.S. Erwan (2013). Preliminary evaluation of ten mas cotek (*Ficus deltoidea*) accessions on bris soil. 5th Global Summit on Medicinal and Aromatic Plants, 8-12 Dec., Miri, Sarawak.

Thiyagu, D., M.Y. Rafii and T.M.M. Mahmd (2013). Stability analysis in six sweetpotato genotypes across eight agro-ecologies. *Simposium Biologi Kebangsaan ke-9*, 28-30 Mei, Hotel Thistle, Port Dickson.

Thiyagu, D., Y. Musa and W.M. Wan Zaki (2012). Evaluation of three mas cotek (*Ficus deltoidea*) accessions of yield and yield components with four different cutting length over three years on bris soil. 1st Regional conference on Agrobiodiversity conservation and sustainable utilization, 25-27 September, Langkawi.

Thiyagu, D., M.Y. Rafii, T.M.M. Mahmud and H. Marzukhi (2012). Genotype by environment interaction of sweetpotato genotypes for leafy vegetable. *First Plant Breeding Seminar, ‘Advances in plant improvement’*, 3-5 July, Agro-Biotechnology Institute (ABI), Serdang.

- Thiyagu, D. and M.Y. Rafii (2012). Genotype-environment interaction on different soil types in sweetpotato for leafy vegetable using AMMI model. Soil Science conference of Malaysia, 10-12 April, Renaissance Hotel, Kota Bharu.
- Thiyagu, D., M.Y. Rafii and H. Marzukhi (2012). Performance of sweetpotato genotypes on shoots tips yield at bris soil over two seasons for leafy vegetable use. 1st Regional conference on Agrobiodiversity conservation and sustainable utilization, 25-27 September, Langkawi.
- Thiyagu, D., M.Y. Rafii, M.A. Latiff and T.M.M. Mahmud (2012). Stability analysis of sweetpotato (*Ipomoea batatas* Lam.) shoot tips yield for leafy vegetable across agro-ecologies using AMMI. Australian Journal of Crop Science, vol. 6 (11), pp. 1522-1526.
- Thiyagu, D., M.Y. Rafii and T.M.M. Mahmud (2011). Genetic variability for 22 sweetpotato accessions in germplasm selected for vegetable use. Paper presented at the 9th Malaysia Genetic Congress, 28-30 September, Pullman Hotel, Kuching.
- Thiyagu, D., M.Y. Rafii and T.M.M. Mahmud (2011). Morphological and genetic performance of selected six sweetpotato genotypes for vegetable use. 9th Malaysia Genetic Congress, 28-30 September, Pullman Hotel, Kuching.
- Thiyagu, D., M.Y. Rafii and M.S. Said (2010). Assessment on genetic, phenotypic variation and environment interaction of shoot and tuber of sweetpotato at Serdang inland mineral soil. Agrobiodiversity conservation and sustainable utilization, 11-13 May, Tawau.
- Thiyagu, D., M.Y. Rafii and H. Habibuddin (2009). Organoleptic shoots evaluation of sweetpotato accessions for vegetable use. Agriculture congress, 27-29 October, Palace of Golden Horses, Seri Kembangan.
- Thiyagu, D., M.Y. Rafii and M.S. Said (2009). Preliminary evaluation of 22 sweetpotato accessions for vegetable use. 8th Malaysia genetic congress, 4-6 August, Awana, Genting highland.
- Jeeven, K., A. Sharizan, Farah, D. Thiyagu and Norhayazan (2009). Polyphenol and antioxidant activity of different varieties of sweetpotato leaves. Symposium on plant polyphenols: Nutrition, health and innovations, 22-23 June, KL.
- Thiyagu, D., P. Mansur and A. Sivapragasam (2008). Evaluation of four pegaga (*Centella asiatica*) accessions grown under organic conditions. National conference on organic, 4-6 November, Sheraton Subang Hotel.
- Thiyagu, D. (2007). What is EUREPGAP? Agromedia, no. 24., MARDI, Serdang.
- Thiyagu, D. and P. Mansur (2006). Organic production of pegaga. National conference on Agro-environment, 11-12 September, Berjaya Georgetown Hotel, Penang.
- Hamidah, G., H. Habibuddin, H. Marzukhi and Thiyagu, D. (2005). An improved procedure for meristem culture of diverse genotypes of sweetpotato (*Ipomoea batatas* (L.) Lam.). Second International Symposium on sweetpotato and cassava, 14-17 June, Corus Hotel, Kuala Lumpur.

Grants and Fellowships:

- Co-development and transfer of rice technology – BSF FAO Indonesia, 2015 - 2017, USD 50,000
- NKEA – EPP1 (Malaysian Herbal Monograph, MARDI, 2011 – 2013), RM 439,960
- Science Fund (Collection and evaluation of sweetpotato for nutritional, phytochemical and eating qualities, 2007 – 2010), RM 108,960

Awards and Honors:

- Silver award - MSTE knowledge category 2013 (MARDI)
- Silver award – Malaysian Innovation Expo 2013 (UPM)