

DR. T. KARUPPANA PANDIAN

PLANT PHYSIOLOGY/POSTHARVEST/HORTICULTURE
RESEARCHER



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School of Biology,
Madurai Kamaraj University,
Madurai, India



PROFESSIONAL SUMMARY

Extensive research experience in plant physiology and biochemical analyses of plants exposed to different abiotic stresses in order to clarify the mechanism underlying the promotion of plant growth. A proven experience in the cold storage handling of pome fruit and maintaining the supply of fresh quality fruit to the food chain. Expertise in the manipulation of various controlled atmosphere (CA) storage regimes and non-invasive technologies used for quality maintenance and measurement of apples after long-term storage.



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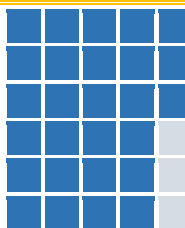
<https://www.researchgate.net/profile/Thirupathi-Karuppanapandian>

<https://scholar.google.com/citations?user=N3EQTBIAAAAJ&hl=en>



SKILLS

Independent, team & collaborative work
Work under pressure
Flexibility/adaptability
Critical thinking & problem solving
Verbal & written communication
Leadership



LANGUAGES

Tamil: mother tongue; English: fluent (speak & write)



WORK EXPERIENCE

SENIOR RESEARCH ASSOCIATE

Jan. 2022 to till now

School of Biology, Madurai Kamaraj University, Madurai, India

The purpose of the study is to identify the most effective methods for packaging and storing guava fruits and how they affect their post-harvest characteristics, with an emphasis on enhancing fruit freshness while also controlling respiration rate and minimizing weight loss during storage. This study will cover the physiology, ripening process, and ethylene production in fruits.

POSTDOCTORAL FELLOW

Aug. 2018 to Dec. 2021

Department of Horticultural Science, Stellenbosch University, Stellenbosch, South Africa

The research aims to control superficial scald in 'Granny Smith' apples that develops after long-term storage in CA conditions. The low-oxygen CA regimes alone and in combination with 1-methylcyclopropene (1-MCP) was used to inhibit the occurrence of scald in the fruit. The study involved analysis of the maturity index (MI), levels of gaseous, and volatiles in the fruit. A sensory approach was applied to evaluate the sensory quality attributes of the fruits, which included aroma, flavor, and texture.

COMPLIANCE AND FOOD SAFETY ADMINISTRATOR

Sept. 2021 to Nov. 2021

Tru-Cape Fruit Marketing, Somerset West, South Africa

The duties include handling client fruit quality claims, compliance management and its related communications, and updating the maximum residue limits of pome fruit for the overseas markets. In addition, new food safety regulations

are being updated, as is packhouse compliance and reporting, administration, and analysis of fruit quality documentation.

RESEARCH ASSOCIATE

Oct. 2015 to July 2018

School of Biology, Madurai Kamaraj University, Madurai, India

The research focused on adopting various postharvest technologies on bananas to reduce postharvest losses and to enhance the shelf life of fruit. A combination of various postharvest practices, such as harvest at optimum maturity, heat-shock treatment, and cold storage in a sealed polybag with an ethylene scrubber was successfully used to maintain the fruit's fresh quality and extended the shelf life period.

POSTDOCTORAL FELLOW

Oct. 2014 to Sept. 2015

Department of Experimental Biology, Masaryk University, Brno, Czech Republic

This project focused mainly on long-distance chemical signals that are transported from root to shoot via xylem and the mechanism's perception of these signals in leaf cells. Combination methods of plant physiology and biochemistry should bring more insight into the interplay between ABA and other signals delivered to leaves in the transpiration stream and mechanisms of transduction of information from root signals to stomata under drought stress. The pressure chamber methodology has been employed to detect the chemical signals, particularly pH in the leaf apoplast of *Vicia faba* L. in response to drought stress.

VISITING POSTDOCTORAL FELLOW

Nov. 2014 to Mar. 2015

Institute of Plant Nutrition and Soil Science, Christian Albrechts University, Kiel, Germany

The main research activity was to employ *in situ* fluorescence ratio imaging microscopy to measure the pH directly in the apoplast of *Vicia faba* L. leaves in response to progressive soil drying.

PBC POSTDOCTORAL FELLOW

Dec. 2012 to Sept. 2014

Postharvest Science of Fresh Produce, The Volcani Center, Bet-Dagan, Israel

The research work was focused on molecular characterization of the mechanism of reactive oxygen species in the gravitropic response of snapdragon shoots. Experiments included confocal microscopy analyses of the actin filaments, determination of oxidation-related elements, determination of auxin lateral transport, level, metabolism, and activity. qRT-PCR analysis was used to detect early expression of AUX/IAA and SAUR genes associated with the gravity signal.

POSTDOCTORAL FELLOW

Dec. 2011 to Nov. 2012

Dept. of Integrative Plant Science, Chung-Ang University, Anseong, Republic of Korea

The research work concentrated on the identification of differentially expressed Al-stress-responsive proteins in the roots of Al-tolerant and Al-sensitive Arabidopsis ecotypes, Col-0 and Ler, respectively. A proteomic approach was employed, the changes of major proteins profile were separated by two-dimensional gel electrophoresis (2DE) and these differentially expressed proteins were subsequently analyzed and characterized by matrix-assisted laser description/ionization time-of-flight mass spectrometry (MALDI-TOF-MS) in combination with referring protein databases.

RESEARCH PROFESSOR

May 2009 to Nov. 2011

College of Life Sciences and Biotechnology, Korea University, Seoul, Republic of Korea

The study examined Co-induced oxidative stress, ROS production, and antioxidative systems in Indian mustard plants. Another study developed a protocol for eradicating PMMoV from infected tobacco by sieving. DNA fingerprinting was used to detect black gram genetic diversity and relationships.



EDUCATION

Ph.D. in Plant Sciences	Madurai Kamaraj University, Madurai, India	April 2003 to Feb. 2009
M.Phil. in Energy Sciences	Madurai Kamaraj University, Madurai, India	June 2000 to April 2001
M.Sc. in Botany	VHNSN College, Virudhunagar, India	June 1998 to April 2000
B.Sc. in Botany	Ayya Nadar Janaki Ammal College, Sivakasi, India	June 1995 to April 1998



(*Corresponding author; #Equal contribution)

1. Gerber M., **Karuppanapandian T.**, Viljoen D.W., Botes A., Crouch I.J., Crouch E.M. (2023). Superficial scald induction in 'Granny Smith' apples subjected to different storage treatments. *Acta Horticult. (In press)*.
2. He J., Feng Y., Cheng Y., **Karuppanapandian T.**, Wang J., Guan J. (2022). Changes in α -farnesene and phenolics metabolism and expression of associated genes during the development of superficial scald in two distinct pear cultivars. *Int. J. Mol. Sci.* 23: 12088.
3. **Karuppanapandian T.**, Gerber M., Viljoen D.W., Botes A., Moelich E.I., Crouch I.J., Crouch E.M. (2021). Assessment of sensory characteristics of 'Granny Smith' apples stored in various controlled atmosphere regimes by a trained panel. *Acta Horticult.* 1348, 285-290.
4. Chigwaya K., **Karuppanapandian T.**, Schoeman L., Viljoen D.W., Crouch I.J., Nugraha B., Verboven P., Nicolaï B.M., Crouch E.M. (2021). X-ray CT and porosity mapping to determine the effect of 'Fuji' apple morphological and microstructural properties on the incidence of CO₂ induced internal browning. *Postharvest Biol Technol.* 171: 111464.
5. Gerber M., **Karuppanapandian T.**, Viljoen D.W., Botes A., Crouch I.J., Crouch E.M. (2021). Understanding the relationship between α -farnesene metabolism and superficial scald induction in 'Granny Smith' apples subjected to different storage practices. *Acta Horticult.* 1348, 311-318.
6. Premkumar G[#]., **Karuppanapandian T[#]*., Sureshpandian C., Arumugam N., Selvam A., Rajarathinam K. (2020). Optimization of a liquid culture system for shoot regeneration and achieving an enriched level of scopadulcic acid B in the leaf organ cultures of *Scoparia dulcis* L. by response surface methodology. *In Vitro Cell Dev Biol-Plant.* 56: 60-71.**
7. Anand K., **Karuppanapandian T.**, Sinha P.B. (2019). Isolation, identification and characterization of fungi from Vinoba Bhawe university campus, Hazaribag district. *Inno Mater Sci Eng.* Chattopadhyay J., Singh R., Prakash O. (Eds.), Springer Nature Singapore, pp 115-128.
8. Sindhuja V., Gnanaraj M., Viji M., **Karuppanapandian T.**, Manoharan K. (2018). Induction of high frequency somatic embryogenesis and analysis of developmental stagewise expression of *SERK1* gene during somatic embryogenesis in cultures of *Vigna radiata* (L.) R. Wilczek. *Ind J Exp Biol.* 56: 180-193.
9. **Karuppanapandian T.**, Geilfus G-M., Muehling K-H., Novak O., Gloser V. (2017). Early changes of the pH of the apoplast are different in leaves, stem and roots of *Vicia faba* L., under declining water availability. *Plant Sci.* 255: 51-58.
10. Alamgir K.M.D., Kim W., Wang H.W., Yao Q., Kwon H., **Karuppanapandian T.** (2016). Sulfur fertilization influence on growth and yield traits of three Korean soybean varieties. *Int J Agricult Sys.* 4(1): 1-12.
11. **Karuppanapandian T.**, Kim W. (2013). Cobalt-induced oxidative stress causes growth inhibition associated with enhanced lipid peroxidation and activates antioxidant responses in Indian mustard (*Brassica juncea* L.) leaves. *Acta Physiol Plant.* 30(8): 2429-2443.
12. **Karuppanapandian T.**, Rhee S-J., Kim E-J., Han B.K., Hoekenga O.A., Lee G.P. (2012). Proteomic analysis of differentially expressed proteins in the roots of Columbia-0 and Landsberg *erecta* ecotypes of *Arabidopsis thaliana* in response to aluminum toxicity. *Can J Plant Sci.* 92(7): 1267-1282.
13. Kwon Y.S., Alamgir K.M.D., Wang H.W., **Karuppanapandian T.**, Moon J-C., Rye K.H., Lee G.P., Kim W. (2012). Elimination of pepper mild mottle virus from infected tobacco (*Nicotiana benthamiana* L.) plants by callus culture and the sieving technique. *In Vitro Cell Dev Biol-Plant.* 48: 595-599.
14. Viji M., Maheswari P., **Karuppanapandian T.**, Manoharan K. (2012). Effect of polyethylene glycol and mannitol on somatic embryogenesis of pigeonpea, *Cajanus cajan* (L.) Millsp. *Afr J Biotechnol.* 11(45): 10340-10349.
15. Wang H.W., Hwang S.G., **Karuppanapandian T.**, Liu A., Kim W., Jang C.S. (2012) Insight into the molecular evolution of non-specific lipid transfer proteins via comparative analysis between rice and sorghum. *DNA Res.* 19(2): 179-194.
16. **Karuppanapandian T.**, Moon J-C., Kim C., Manoharan K., Kim W. (2011). Reactive oxygen species in plants: their generation, signal transduction, and scavenging mechanisms. *Aust J Crop Sci.* 5(6):709-725.

17. **Karuppanapandian T.**, Wang H.W., Prabakaran N., Jeyalakshmi K., Kwon M., Manoharan K., Kim W. (2011). 2,4-dichlorophenoxyacetic acid-induced leaf senescence in mung bean (*Vigna radiata* L. Wilczek) and senescence arrest by cotreatment with silver nanoparticles. *Plant Physiol Biochem.* 49(2): 168-177.
18. **Karuppanapandian T.**, Wang H.W., Karuppururai T., Rajendhran J., Kwon M., Jang C.S., Kim S.-H., Manoharan K., Kim W. (2010). Efficiency of RAPD and ISSR markers in assessing genetic diversity and relationships in black gram (*Vigna mungo* L. Hepper) varieties. *Can J Plant Sci.* 90(4): 443-452.
19. Qin Y., Wang H.W., **Karuppanapandian T.**, Kim W. (2010). Chitosan green tea polyphenol complex as a released control compound for wound healing. *Chin J Traumatol.* 13(2): 91-95.
20. Lee Y.S., Kwon Y., Wang H.W., Lee S.J., Alamgir K.M.D., **Karuppanapandian T.**, Hong S.H., Lee D.-J., Baek H.-J., Jang Y.-S., Kim W. (2010). Modelling of cross-pollination of maize using gamma model. *Kor J Crop Sci.* 55(4): 365-370.
21. **Karuppanapandian T***, Sinha P.B., Kamarul Haniya A., Manoharan K. (2009). Chromium-induced accumulation of peroxide content, stimulation of antioxidative enzymes and lipid peroxidation in green gram (*Vigna radiata* L. cv. Wilczek) leaves. *Afr J Biotechnol.* 8(3): 475-479.
22. **Karuppanapandian T***, Saranyadevi A.R., Jeyalakshmi K., Manoharan K. (2008). Mechanism, control and regulation of leaf senescence in plants. *J Plant Biol.* 35(3): 141-155.
23. **Karuppanapandian T***, Sinha P.B., Kamarul Haniya A., Manoharan K. (2008). Phytotoxic effects of aluminium and copper in senescence green gram [*Vigna radiata* (L.) Wilczek] leaves. *Int J Plant Sci.* 3(2): 504-511.
24. **Karuppanapandian T***, Sinha P.B., Kamarul Haniya A., Manoharan K. (2008). Induction of oxidative stress in mung bean (*Vigna radiata* L.) leaves in response to NaCl stress. *Int J Plant Sci.* 3(2): 345-348.
25. **Karuppanapandian T***, Manoharan K. (2008). Uptake and translocation of tri and hexa-valent chromium and their effects on black gram (*Vigna mungo* L. Hepper cv. Co4) roots. *J Plant Biol.* 51(3): 192-201.
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27. **Karuppanapandian T***, Karuppururai T., Sinha P.B., Kamarul Haniya A., Manoharan K. (2007). Random amplified polymorphic DNA markers variability and relationships among black gram (*Vigna mungo* L. Hepper) landraces. *J Plant Biol.* 34(2): 79-85.
28. Sinha P.B., **Karuppanapandian T***, Kamarul Haniya A., Manoharan K. (2007). Hydrogen peroxide-induced oxidative damage occurs on senescence green gram (*Vigna radiata* L.) leaves. *Int J Plant Sci.* 2(1): 175-177.
29. **Karuppanapandian T***, Karuppururai T., Kumaraguru A.K. (2007). A preliminary study on the environmental condition of the coral reef habitat. *Int J Environ Sci Technol.* 4(3): 367-374.
30. **Karuppanapandian T***, Karuppururai T., Sinha P.B., Kamarul Haniya A., Manoharan K. (2006). Phylogenetic diversity and relationships among cow pea (*Vigna unguiculata* L. Walp.) landraces using random amplified polymorphic DNA markers. *Gen Appl Plant Physiol.* 32(3-4): 141-152.
31. **Karuppanapandian T***, Sinha P.B., Kamarul Haniya A., Manoharan K. (2006). Differential antioxidative responses of ascorbate-glutathione cycle enzymes and metabolites to chromium stress in green gram (*Vigna radiata* L. Wilczek) leaves. *J Plant Biol.* 49(6): 440-447.
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36. Manoharan K., **Karuppanapandian T.**, Sinha P.B., Rajendra Prasad. (2005). Membrane degradation, accumulation of phosphatidic acid, stimulation of catalase activity and nuclear DNA fragmentation during 2,4-D-induced leaf senescence in mustard. *J Plant Biol.* 48(4): 394-403.

37. Manoharan K., Mishra G., Sathishkumar R., Sinha P.B., **Karuppanapandian T.**, Agrawal S., Jagannathan V. (2005). Induction of embryogenic callus and direct plantlet regeneration in black gram (*Vigna mungo* (L.) Hepper). J Swamy Bot-Cl. 22: 39-46.

Workshop /Conference

1. Crouch E., Botes A., **Karuppanapandian T.**, Mathabe P., Viljoen D., Crouch I., Gerber M. (2018) Superficial scald on Granny Smith – understanding the mechanism and limitations of the storage protocols used by industry and assess risk indicators in storage for scald development, held at ARC, Stellenbosch, South Africa, on 14th November 2018, p12.
2. Sinha P.B., **Karuppanapandian T.**, Salilew-Wondim D., Tesfaye D., Schellander K. (2017) Experimental validation of microRNA 130b target genes using dual luciferase reporter system. In: Genetic Engineering and Biotechnology: 21st Century's Frontier Science, held at Jamshedpur Women's College, Jamshedpur, India, 3rd-4th February 2017, p48.
3. **Karuppanapandian T.**, Geilfus C-M., Mühling K.H., Gloser V. (2015) *In situ* ratio imaging analysis of apoplastic pH in intact leaves of *Vicia faba* L. plants in response to drought stress, held at Brno, Czech Republic, 8th-11th September 2015, p24.
4. **Karuppanapandian T.**, Geilfus C-M., Mühling K.H., Gloser V. (2015) Response of *Vicia faba* L. leaves to progressive drought stress: *In situ* temporal analysis using ratio imaging method. In: Plant Abiotic Stress Tolerance III, held at Vienna, Austria, 29th June-1st July 2015, p18.
5. Kwon Y.S., Moon J-C., **Karuppanapandian T.**, Lee S.J., Yoon J.Y., Rye K.H., Kim W. (2009) Generation of virus-free plants from germplasm resources. Korea Society for Horticultural Science (KSHS), held at the University of Seoul, Seoul, South Korea, 24th-25th, October 2009, p43.
6. Maheswari P., Viji M., Saranyadevi A.R., **Karuppanapandian T.**, Manoharan K. (2008). Abiotic stress factor mediated induction of somatic embryogenesis in green gram, *Vigna radiata* L. Wilczek. In: Golden Jubilee conference on "Challenges and Emerging Strategies for Improved Plant Productivity" held at the Indian Agricultural research Institute, New Delhi, India, 12th-14th November 2008, p140.
7. Maheswari P., Jeyalakshmi K., Anuradha R., **Karuppanapandian T.**, Manoharan K. (2007). Studies on the induction of somatic embryogenesis in green gram, *Vigna radiata* L. In: Science Day and Aqua-Terr Annual Conference held at the School of Biological Sciences, Madurai Kamaraj University, Madurai, India, 10th March 2007, p16.
8. Sinha P.B., **Karuppanapandian T.**, Manoharan K. (2006). Effect of hormone supplements, seedling age and explant types on callusing, somatic embryogenesis and plantlet regeneration in green gram, *Vigna radiata* L. In: Science Day and Aqua-Terr Annual Conference held at the School of Biological Sciences, Madurai Kamaraj University, Madurai, India, 4th March 2006, p12.
9. **Karuppanapandian T.**, Sinha P.B., Manoharan K. (2006). 2,4-D-induced leaf senescence in green gram seedlings. In: Proceedings of the national seminar on 'Advances in Plant Sciences' held at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli, India, 24th-25th February 2006, p58.
10. **Karuppanapandian T.**, Sinha P.B., Manoharan K. (2005). Mechanism and control of leaf senescence in plants. In: Proceedings of the state level conference on 'The Changing Environment' held at TDMNS College, T. Kallikulam, India, from 30th September – 1st October 2005, p22.
11. Mishra G., Sathishkumar R., **Karuppanapandian T.**, Agrawal S., Jagannathan V., Manoharan K. (2004). Induction of direct plantlet regeneration and formation of proembryogenic callus in black gram, *Vigna mungo* L. cv. Co4. 26th Annual Meeting of the Plant Tissue Culture Association (India) held at Dr. W. Kuipers Biotechnology Unit, Laboratory of Applied Biology, St. Aloysius College, Mangalore, 15th-17th January 2004, pp 45-46.

Conference/ Symposia

1. All African Horticultural Congress (AAHC) 2021 held at Darkar, Senegal from 29th-31st March 2021.
2. Hortgro Technical Symposium 2019 held at Somerset West, South Africa from 3rd-7th June 2019.
3. International conference on "Influence of abiotic and biotic stresses on properties of plants 2015" held at Prague, Czech Republic from 16th-17th September 2015.
4. 14th Conference of Experimental Plant Biology (CEPB) held at Brno, Czech Republic, from 8th-11th September 2015.
5. VICEA International conference on "Plant Abiotic Stress Tolerance III" held at Vienna, Austria, from 29th June-1st July 2015.

6. Israel Society of Plant Scientists Meeting (ISPS) organised by the ARO, The Volcani Center, Bet-Dagan, Israel, on 13th February 2013
7. International conference for Korea Society for Horticultural Science (KSHS), held at the University of Seoul, Seoul, South Korea, from 24th-25th October 2009.
8. Annual Conference on “Science day & Aqua-Terr Annual Day” held at School of Biological Sciences, Madurai Kamaraj University, Madurai, India, on 29th March 2008.
9. One-day workshop on “Advanced Computing Methods for Statisticians” held at Dept. of Applied mathematics and Statistics, School of Mathematics, Madurai Kamaraj University, Madurai, India, on 30th March 2007.
10. Annual Conference on “Science day & Aqua-Terr Annual Day” held at School of Biological Sciences, Madurai Kamaraj University, Madurai, India, on 10th March 2007.
11. Annual Conference on “Science day & Aqua-Terr Annual Day” held at School of Biological Sciences, Madurai Kamaraj University, Madurai, India, on 4th March 2006.
12. Two-day national seminar on “Advances in Plant Sciences” held at Department of Plant Sciences, Bharathidasan University, Tiruchirppalli, India, from 24th-25th February 2006.
13. Two-day state level conference on “The Changing Environment” held at TDMNS College, T. Kallikulam, India, from 30th September-1st October 2005.
14. Annual Conference on “Science Day & Aqua-Terr Annual Day” held at School of Biological Sciences, Madurai Kamaraj University, Madurai, India, on 5th March 2005.
15. Symposium on “Comparative and Functional Genomics” organized as a part of the 8th ADNAT convention held at Cellular and Molecular Biology, Hyderabad, India, from 23rd-24th February 2004.
16. Training Programme on “Biomass Gasifier Systems” hosted by Ministry of Nonconventional Energy Sources held at School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai, India, from 10th-12th October 2000.

Book chapter(s)

1. **Karuppanapandian T.**, Geilfus C-M., Mühling K.H., Gloser V. (2015) Ratio imaging of temporal changes in leaf apoplastic pH of *Vicia faba* (L.) plants under drought stress by fluorescence microscopy technique. In: Influence of abiotic and biotic stresses on properties of plants, 16th-17th September, Prague, Czech Republic, p 137-140.
2. Manoharan K., Mishra G., **Karuppanapandian T.**, Sathishkumar R. (2005). Metabolic conditioning and induction of cell division by culture growth factor supplements in microdroplet cell cultures of *Brassica juncea* L. In: Plant Biotechnology; New Frontiers (Eds.) A.K. Mathur, A.K. Kukreja and S.P.S. Khaneja, CIMAP, Lucknow, India pp. 18-27.
3. Mishra G., Sathishkumar R., **Karuppanapandian T.**, Agrawal S., Jagannathan V., Manoharan K. (2004). Induction of plantlet regeneration and embryogenic callus in black gram, *Vigna mungo* (L.) Hepper cv. Co4. In: Biotechnology for a Better Future. L. D'Souza, M. Anuradha, S. Nivas, S. Hegde and K. Rajendra (Eds.), SAC Publications, Mangalore, India pp. 269-282.
4. **Karuppanapandian T.**, Manoharan K. (2003). Bioinformatic Analysis on the Distribution, Homology and Role of Satellite DNA in Plants. In: “Challenges and Application in Bioinformatics” M. Vivekanandan (Ed.), Published by the Department of Biotechnology, School of Life Sciences, Bharathidasan University, Tiruchirappalli, India pp. 25-35.



HONOURS AND AWARDS

1. Postdoctoral Fellowship supported by Hortgro Science and Post-Harvest Innovation (PHI) programme to pursue research at Stellenbosch University, Stellenbosch, South Africa from August 2018-December 2021
2. Prestigious European-Union Postdoctoral Fellowship was supported by the European Social Fund and State budget of the Czech Republic to pursue research at Masaryk University, Czech Republic, from October 2014-September 2015
3. Visiting Postdoctoral Fellowship supported by the Christian Albrechts University, Germany, from November 23, 2014-March 21, 2015
4. Prestigious PBC Postdoctoral Fellowship awarded by the Planning Budget Committee, Israel to pursue research at ARO, The Volcani Center, Israel, from December 2012-September 2014

5. Postdoctoral Fellowship supported by the Chung-Ang University, Republic of Korea, from December 2011-November 2012
6. Research Professorship awarded by the Korea University, Republic of Korea, from May 2009-November 2011
7. Meritorious Fellowship and Genomics Project Fellowship awarded by the University Grants Commission (UGC), India to pursue Ph.D. at Madurai Kamaraj University, India from April 2003-February 2009



REFERENCES

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Takeaways from Nature

Apples & Pears
Tru-Cape
SOUTH AFRICA

28/5/2023

To Whom It May Concern,

I am writing this letter of recommendation on behalf of Karuppana Pandian Thirupathi, who worked in the Technical department of Tru-Cape Fruit Marketing from September 2021 to December 2021. I had the pleasure of supervising Karuppana during his tenure, and I can confidently attest to his exceptional technical skills and keen eye for detail.

Karuppana's primary responsibility during his time at Tru-Cape Fruit Marketing was to edit and correct all the fruit packing specifications. His meticulous attention to detail and unwavering commitment to accuracy greatly contributed to improving the overall quality of our product packaging. He demonstrated an in-depth understanding of the importance of specifications and their role in maintaining the high standards set by our company.

Prior to working on the specifications, I assigned Karuppana to perform normal quality control work. This allowed him to gain a comprehensive understanding of the various elements involved in developing a specification and the underlying reasons behind them. Karuppana approached this task with enthusiasm and a willingness to learn, quickly grasping the intricacies of our quality control processes. His ability to comprehend complex concepts and apply them effectively was truly commendable.

Throughout his time at Tru-Cape Fruit Marketing, Karuppana displayed a strong work ethic and a proactive attitude. He consistently met deadlines and took the initiative to suggest improvements to our existing processes. His dedication to his work and the pursuit of excellence were evident in the high-quality deliverables he consistently produced.

Karuppana's technical skills are exceptional, and his ability to analyze and identify areas for improvement is noteworthy. His attention to detail was invaluable in ensuring that our fruit packing specifications were accurate, compliant, and aligned with industry standards. Moreover, his excellent communication skills enabled him to collaborate effectively with colleagues, stakeholders, and suppliers, ensuring seamless coordination and execution of projects.

In conclusion, I highly recommend Karuppana Pandian Thirupathi for any position that demands technical expertise, attention to detail, and a strong work ethic. He consistently demonstrated his commitment to excellence during his tenure at Tru-Cape Fruit Marketing, and I am confident that he will continue to excel in any future endeavors.

Should you require any further information or have any questions, please do not hesitate to contact me at henkg@tru-cape.co.za or +27826521828.

Thank you for considering Karuppana's application. I have no doubt that he will be a valuable asset to any organization fortunate enough to have him on board.

Sincerely

A handwritten signature in black ink, appearing to read 'Henk Griessel', written in a cursive style.

Henk Griessel
Technical Manager