# PUBLICATIONS

## Peer Reviewed Journals

**\* Refers to most significant publications**

1. Low, E. L., Chan, K. L., Zaki, N. M., Taranenko, E., Ordway, J. M., Wischmeyer, C., Buntjer, J., Halim, M. A. A., Sanusi, N. S. N. M., Nagappan, J., Rosli, R., Bondar, E., Amiruddin, N., Sarpan, N., Ting, N. C., Chan, P. L., Ong-Abdullah, M., Marjuni, M., Mustaffa, S., Abdullah, N., … Singh, R. (2024). Chromosome-scale Elaeis guineensis and E. oleifera assemblies: comparative genomics of oil palm and other Arecaceae. *G3 (Bethesda, Md.)*, *14*(9), jkae135. https://doi.org/10.1093/g3journal/jkae135
2. Leow, S. S., Khoo, J. S., Lee, W. K., Hoh, C. C., Fairus, S., Sambanthamurthi, R., & Hayes, K. C. (2024). RNA-Seq transcriptome profiling of Nile rat livers reveals novel insights on the anti-diabetic mechanisms of Water-Soluble Palm Fruit Extract. *Journal of applied genetics*, 10.1007/s13353-024-00880-1. Advance online publication. https://doi.org/10.1007/s13353-024-00880-1
3. Leow, S. S., Khoo, J. S., Ng, S. M., Lee, W. K., Hoh, C. C., Fairus, S., Sambanthamurthi, R., & Hayes, K. C. (2023). Insulin and circadian rhythm genes of the Nile rat (*Arvicanthis niloticus*) are conserved and orthologous to those in the rat, mouse and human. *Genetica,* 10.1007/s10709-023-00202-z. Advance online publication. <https://doi.org/10.1007/s10709-023-00202-z>
4. Ting, N.C., Chan, P. L., Jaap, B., Ordway, J.M., Wischmeyer, C., Ooi, L. C. L., Low, L. E. T., Marjuni, M., Sambanthamurthi, R. and Singh, R. (2023). High-resolution genetic linkage map and height related QTLs in an oil palm (*Elaeis guineensis*) family planted across multiple sites. *Physiology and Molecular Biology of Plants.* https://doi.org/[10.1007/s12298-023-01360-2](https://doi.org/10.1007/s12298-023-01360-2)
5. Ooi, L. C. L., Kamil, N.A., Mohd Salleh, K., Low, E. T. L., Ong-Abdullah, M., Lakey, N., Ordway, J.M., Garner, P.A., Nookiah, R., Sambanthamurthi, R., Manaf, M. A, Azman, I. and Singh, R. (2023). Improving oil palm sustainability with molecular-precision agriculture: yield impact of SHELL DNA testing in the Malaysian oil palm supply chain, *Scientia Horticulturae*. <https://doi.org/10.1016/j.scienta.2023.112305>
6. Ting, N.C., Ordway, J.M., van de Weg, E., Serdari, N.M., Low, L., Mustaffa, S., Wischmeyer, C., Smulders, M. J. M., Sambanthamurthi, R. and Singh, R. (2023). Development and applications of the Oil Palm 78K Infinium® HD SNP Array for linkage analysis and chromosome scanning. *Scientia Horticulturae.* <https://doi.org/10.1016/j.scienta.2023.112104>
7. Singh, R., Kamil, N.N., Ooi, L., Low, L., Ong-Abdullah, M., Sambanthamurthi, R., Lakey, N., Manaf, M. A. and Azman, I. (2022). SHELL Genetic Testing: A Key Enabler of Yield Improvement and Sustainable Palm Oil Production. *The Planter*. 98. 10.56333/tp.2022.011
8. Zandi, S., Pirmaradan, E.R., Li, Y., Zhang, Y., Taher, M., Faez, S., Barakat,A., Hayes, K.C., Sambanthamurthi, R.,Fairus, S., Leow, S.S. Zinkernagel, M. S., Enzmann, V. and Moghadam, A. H. (2023) .Water-soluble palm fruit extract (WSPFE) reduces choroidal neovascularization and inflammation. *Invest. Ophthalmol. Vis. Sci. 64(8):1138.*
9. Leow, S. S., Fairus, S., and Sambanthamurthi, R (2022). Investigating the potential anti-diabetic mechanisms of water-soluble palm fruit extract. *Journal of Oil Palm Research,* <https://doi.org/10.21894/jopr.2022.0001>
10. Masani, M., Parveez, G., Noll, G., Fizree, M., Sambanthamurthi, R., & Pruefer, D. (2022). Protoplast Isolation and Transformation in Oil Palm. *Methods in molecular biology (Clifton, N.J.)*, *2464*, 187–202. https://doi.org/10.1007/978-1-0716-2164-6\_14
11. Singh, R., Ooi, L. CL., Ting, N.C., Low, E.-T. L., Abdullah, M. O., Nookiah, R., Marjuni, M., Mustaffa, S., Manaf, M. A. A., Garner, P. A., Reed, J., Wischmeyer, C., Beil, M., Bacher, B., Lakey,N., Ordway, J. M. and Sambanthamurthi, R. (2021) A genetic platform for predicting and reducing non-*tenera* contamination in oil palm (*Elaeis guineensis*) seed supply. *Tree Genetics & Genomes* **17**, 45. <https://doi.org/10.1007/s11295-021-01527-6>
12. Leow, S. S., Fairus, S., & Sambanthamurthi, R. (2021). Water-soluble palm fruit extract: composition, biological properties, and molecular mechanisms for health and non-health applications. *Critical Reviews in Food Science and Nutrition*, *62*(32), 9076–9092. <https://doi.org/10.1080/10408398.2021.1939648>
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15. Singh, R., Lee, K. T., Ooi, L. C. L., Low, E. T. L., Abdullah, M. O., Sambanthamurthi, R., and Azman, I. (2021). An overview of the development of the oil palm industry and impact of the shell gene innovation as a quality control tool to improve productivity. *Journal of Oil Palm Research,* <https://doi.org/10.21894/jopr.2020.0115>
16. Ting, N.-C., Mayes, S., Massawe, F., Sambanthamurthi, R., Chan, K.-L., Sritharan, K., and Singh, R. (2021). Candidate genes linked to QTL regions associated with fatty acid composition in oil palm. *Biologia,* 76(1), 267–279. <https://doi.org/10.2478/s11756-020-00563-2>
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20. Singh, R., Low, E.-T. L., Ooi, L. C.-L., Ong-Abdullah, M., Ting, N.-C., Nookiah, R., Ithnin, M., Marjuni, M., Mustaffa, S., Yaakub, Z., Amiruddin, M. D., Manaf, M. A. A., Chan, K.-L., Halim, M. A. A., Sanusi, N. S. N. M., Lakey, N., Sachdeva, M., Bacher, B., Garner, P. A., … Sambanthamurthi, R. (2020). Variation for heterodimerization and nuclear localization among known and novel oil palm SHELL alleles. *New Phytologist,* 226(2), 426–440. <https://doi.org/10.1111/nph.16387> \*
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2. Sambanthamurthi, R. (2023) Fuelling Health with Phytonutrients: The Oil Palm Advantage. International Conference on Tropical Agriculture 16 – 17 Oct 2023 at Taylor's University Lakeside Campus, Selangor. Invited speaker
3. Sambanthamurthi, R. and Leow, S.S. (2022) Towards a circular economy: Palm phenolics for health and wealth. Oils and Fats International Congress (OFIC) 2022. Invited speaker
4. Sambanthamurthi ( 2021) Oil Palm : Balancing Environmental Protection and Economic Growth through Improved Productivity. **Howard Hughes Medical Institute Life Science Across the Globe Seminar Series** hosted by Cold Spring Harbor Laboratory, Theme: Sustainability; Moderated by Marc Van Montagu
5. Sambanthamurthi, R. (2021). Oil Palm Biotechnology: Breaking barriers, creating opportunities. WAI ( Women in Artificial Intelligence) Summit . Sept 13-17, Kuala Lumpur, Malaysia. Invited speaker

## **Hutchings, M., Liu, M.,** Sambanthamurthi, R. Fairus, S. **and Gupta,S. (2019). Efficacy of oil palm phenolics and curcumin on the serotonin pathway.** 26th International Conference of the Functional Food Center, **, May 9-10,** San Diego, USA

1. Sambanthamurthi, R. **(**2017). Oil palm phenolics: discovery, current knowledge and future challenges. Palm International Nutro-Cosmeceutical Conference (PINC), 31 July -1 August Le Méridien Putrajaya, Kuala Lumpur. Invited speaker

# Sambanthamurthi, R. (2017). Oil Palm Biotechnology: Transforming innovations, capturing value. Invited speaker at MIT Seminar on Commercialisation of Biotechnology, 25 April, Landau Building, MIT, Cambridge, Boston

1. Razalli, N.H., Gowthaman, P., Saadat, N., Vemuri, S., Goja, A. Sambanthamurthi, R. and Gupta, S.V. (2016). The effect of oil palm phenolics (OPP) on pancreatic ductal adenocarcinoma (PDAC) in transgenic mouse model. Federation of American Societies for Experimental Biology (FASEB) Meeting Abstract Number:147.2
2. Leow, S. S., Fairus, S., Mohamed Isa, N., Sundram, K., Hayes, K.C., Tan, Y. A. and Sambanthamurthi, R. (2014). Microarray studies on normal healthy human volunteers supplemented with oil palm phenolics. Poster presentation by Leow, S. S. at the 8th World Congress on Polyphenols Applications, June 5-6, SANA Malhoa Hotel, Lisbon, Portugal
3. Singh, R., Abdullah, M.O., Low, E.T.L, Nookiah, R., Manaf, M.A., Lakey, N., Smith. S.W., Budiman M.A., Ordway, J., Hogan, M., Martienssen, R.and Sambanthamurthi, R.(2014)

# Oil Palm Genome Unzipped: What we found in its genes. Invited Plenary Speaker at Plant and Animal Genome Congress Asia, 19-21 May, Singapore

1. Singh, R., Abdullah, M.O., Low, E.T.L, Nookiah, R., Manaf, M.A., Lakey, N., Smith. S.W., Budiman M.A., Ordway, J., Hogan, M., Martienssen, R.and Sambanthamurthi, R. (2014). Oil palm Genome Sequence Provides New Landscape for Improving Productivity. Invited Keynote Speaker at the 4th International Biochemistry and Molecular Biology Conference, April 2-3, Bangkok, Thailand
2. Abeywardena M.Y., Sambanthamurthi, R., Tan, Y.A. and Sundram, K. (2013) Bioactive discovery and substantiation: Emerging health benefits of novel phytochemicals from oil palm fruit (*Elaies guineensis*) World Congress on Nutrition & Health (WCNH-2013), October 12-14, Dalian, China. (Invited paper)
3. Abeywardena, M.Y., Sambanthamurthi, R., Tan, Y.A. and Sundram, K. (2013). Oil palm phenolics as a bioactive ingredient in promoting cardiovascular health. Palm International Nutra-Cosmeceutical Conference May 20-21, One World Hotel, Petaling Jaya, Malaysia (Invited paper)
4. Fairus, S., Leow, S. S., Mohamed Isa, N., Sundram, K., Hayes, K.C., Tan, Y.A. and Sambanthamurthi, R. (2013). Supplementation of oil palm phenolics in normal healthy human volunteers. Palm International Nutra-Cosmeceutical Conference, One World Hotel, May 20-21, Petaling Jaya, Malaysia.
5. Sambanthamurthi, R., Tan, Y.A., Sundram, K., Moghadam, A.H., Gupta, S., Hayes, K.C., Abeywardena, M., Sambandan, T.G., Rha, C.K., Sinskey, A.J., Leow, S.S., Subramaniam, K., Sekaran, S.D., Che Idris, C.A., Bolsinger, J, Khosla, P. and Fairus, S. (2013). Oil palm phenolics: From bioburden to bioactives. Palm International Nutra-Cosmeceutical Conference, May 20-21, One World Hotel, Petaling Jaya, Malaysia. (Invited paper)
6. Fairus, S., Leow, S. S., Mohamed Isa, N., Sundram, K., Hayes, K.C., Tan, Y.A. and Sambanthamurthi, R. (2013). Supplementation of oil palm phenolics in normal healthy human volunteers. Experimental Biology 2013 (EB2013) Conference, April 20-24, Boston Convention and Exhibition Center, Boston, Massachusetts, United States of America.
7. Leow, S.S., Bolsinger, J., Pronczuk, A., Hayes, K.C. and Sambanthamurthi, R. (2013). Microarray studies on the effects of palm fruit juice in diabetic Nile rats. Experimental Biology 2013 (EB2013) Conference, April 20-24, Boston Convention and Exhibition Center, Boston, Massachusetts, United States of America
8. Abeywardena M.Y., Sabanthamurthi, R., Tan, Y.A., and Sundram, K. (2012). Oil palm fruit as a leading source of natural antioxidants. 103rd Annual American Oil Chemist’s Society meeting; April 29-May 2, Los Angeles, USA
9. Leow, S.S., Sekaran, S.D., Sundram, K., Tan, Y.A. and Sambanthamurthi, R. (2012). Oil palm phenolics attenuated the effects of an atherogenic diet in mice: A microarray gene expression profiling study. XVI International Symposium on Atherosclerosis (ISA2012), March 25-29, Sydney Convention and Exhibition Centre, Sydney, Australia
10. Rasid, O. A., Nor Hanin, A., Masani, M.Y.A., Singh R., Parveez G. K A. and Sambanthamurthi R. (2012). Generation of transgenic oil palm carrying the antisense copy of lycopene cyclases for increasing lycopene content. Oils and Fats International Congress. p77
11. Sambanthamurthi, R., Parveez, G.K.A., Singh, R., Abdullah, M.O. and Low, E.T.L. (2012). Role of biotechnology in improving oil palm productivity. Proceedings of International Planters Conference, Kuala Lumpur 25-26 June, pp. 45-60
12. Singh, R., Abdullah, M.O., Low, E.T.L, Nookiah, R., Nathan Lakey, Lakey, N., Smith. S.W., Budiman M.A., Ordway, J., Kudrna, D.,Wing, R., Martienssen, R. and Sambanthamurthi, R. (2012). Leveraging the Elaeis genome and transcriptome for enhancing agronomic traits. In Plant & Animal Genome XX. The International Conference on the Status of Plant & Animal Genome Research. Palm Genomics & Genetics Session. January 14–18, San Diego, California, USA.
13. Masani, M.Y.A., Noll, G., Parveez G.K.A., Fisher, R., Sambanthamurthi, R. and Prufer, D. (2011). Isolation of protoplasts from oil palm suspension cultures: Factors affecting protoplast yield and viability. Proceedings of PIPOC Agriculture, Biotechnology and Sustainable Conference, Kuala Lumpur, November 15-17, pp: 239-243
14. Abeywardena, M.Y., Sundram, K., Sambanthamurthi, R., Tan, Y.A. (2011). Oil palm phenolics possess multiple cardiovascular health benefits. XI Asian Congress on Nutrition. July 13-16, Singapore
15. Abeywardena, M.Y., Sundram, K., Sambanthamurthi, R., Tan, Y.A. (2011). Natural antioxidants in health and disease: Emerging trends in palm-based nutraceuticals. 7th Asia Pacific Conf. Clinical Nutrition, June 5 - 9, Bangkok, Thailand
16. Abeywardena, M., Sundram, K., Sambanthamurthi, R. (2011). Cardiovascular health benefits of oil palm phenolics (Invited paper) International Soc. Func. Foods and Nutraceuticals; ISNFF-2011, November 14-17, Hokkaido, Japan
17. Abeywardena, M.Y., Sambanthamurthi, R., Tan Y.A., and Sundram, K. (2011).Oil Palm Phenolics (OPP) in cardioprotection. Palm Int. Palm International Nutra-Cosmeceutical Conference, , May 20, Kuala Lumpur, Malaysia
18. Amirudin M.D., Rajinder, S., Abdullah, M.O., Sambanthamurthi, R.. and Nookiah, R. (2011). Oil Palm Breeding: The anchor for genome-based technology. Proceedings of Agriculture, Biotechnology & Sustainability Conference. MPOB International Palm Oil Congress PIPOC 2011, KLCC, Kuala Lumpur. 15–17 November 2011
19. Fairus, S., Abeywardena, M., Hayes K.C., Leow, S.S, Sekaran, S.D., Subramaniam, K., Tan, Y.A., Sundram, K. and Sambanthamurthi, R. (2011). Phenolic bioactives: Water-soluble antioxidants from oil palm fruit. 9th Euro Fed Lipids Congress, September 18-22, Rotterdam
20. Parveez, G.K.A., Abrizah, O., Omar, R., Masani, M.Y.A., Ramli, U.S., Dayang Izawati A.M., Mohamad Arif, M.A., Bahariah, B; Siti Masura, M., Nur Hanim, A., ., Syuhada, W. S. W. N., Rafiqah, A., Norfahiza A.R., Zamzuri, I., Tarmizi, A.H., Kushairi, A. D., Sambanthamurthi,R. and Mohd Basri W. (2011) Trials and Tribulations of Oil Palm Transformation. Proceedings PIPOC 2011: 362-365.
21. Parveez, G.K.A., Othman,A., Ramli U.S., Sambanthamurthi R., Masani, M.Y.A., Bahariah B., Nur Hanin A., Omar A.R., Masura S.S., Tarmizi A.H., Zamzuri, I. and Kushairi A.D. (2011). Towards production of novel traits from oil palm via genetic modification. VIPCA International Conference: Plant Transformation Technologies II, pp: 44.

# Quek, E., Purutcuogulu,V., Sambanthamurthi, R. and Weber, G.W., (2011). Modelling lipid biosynthesis pathways of oil palm by boolean and graphical approaches. doi: 10.1109/HIBIT.2011.6450822 . Proceedings of the 6th International Symposium on Health Informatics and Bioinformatics. May 2-5 Izmir, Turkey

1. Sambanthamurthi, R., Tan, Y.A, Sundram, K., Hayes, K.C., Abeywardena, M., Leow, S.S., Sekaran, S.D, Sambandan. T.G, Rha, C.K., Sinskey, A.J., Subramaniam, K., Fairus, S. and Basri, M.W (2011). Palm phenolics: The way forward through innovative scientific discoveries. Palm International Nutra-Cosmeceutical Conference. May 20, Kuala Lumpur, , Malaysia
2. Abeywardena, M., Sundram K. and Sambanthamurthi, R. (2010). Promising bioactives for health and wellness from the oil palm fruit. ISNFF, October 11 - 15, Bali, Indonesia. Invited Keynote speaker
3. Leow S.S., Tan, Y.A., Sundram, K., Wahid, M.B. and Sambanthamurthi, R. (2009). Mouse memory and motor function: Microarray mining for the neuroprotective effects of oil palm phenolics. MPOB International Palm Oil Congress (PIPOC), November 9-12, KLCC, Kuala Lumpur.
4. Sambanthamurthi, R. (2009). Unique oil palm phenolics for multiple health benefits. MPOB International Palm Oil Congress (PIPOC), November 9-12, KLCC, Kuala Lumpur
5. Abeywardena, M., Sambanthamurthi R, Tan Y.A. and Sundram, K. and Wahid, M.B. (2009). Oil palm phenolics (OPP): A novel water soluble bioactive to promote cardiovascular health. Palm International Nutra-Cosmeceutical Conference (PINC), May 25-26, Kuala Lumpur, Malaysia
6. Leow, S.S., Sambanthamurthi, R., Tan, Y.A, Sundram, K., Wahid, M.B and Sekaran, S.D. (2009). Mining microarrays for the anti-cancer mechanisms of oil palm phenolics. Palm International Nutra-Cosmeceutical Conference (PINC), May 25-26, Kuala Lumpur, Malaysia
7. Sambandan, T.G., Sambanthamurthi, R., Tan, Y.A. and Sundram, K. (2009). Fingerprinting of oil palm phenolics. Proceedings of the Palm International Nutra-Cosmeceutical Conference (PINC), May 25-26, Kuala Lumpur, Malaysia
8. Sambanthamurthi, R., Tan ,Y.A., Sundram, K. and Wahid, M.B (2009). Mining the aqueous stream of oil palm milling for valuable antioxidants. Proceedings for the Palm International Nutra-Cosmeceutical Conference (PINC), May 25-26, Kuala Lumpur, Malaysia
9. Syahanim, S., Abrizah, O, Mohamad Arif AM, Idris AS, Mohd Din A and Sambanthamurthi R (2008). Establishment of protein extraction methodology from roots of oil palm artificially inoculated with Ganoderma boninense. Proceedings of the International Conference on Advancement in Science and Technology (iCAST), IIUM, Pahang, June 13-15, pp: 2
10. Abd Manaf, M. A., Othman, A., Zetty Norhana, B.Y., Syahanim, S., Idris, A.S., Amiruddin, M.D. and Sambanthamurthi, R. (2007). Molecular and biochemical approaches to understanding oil palm-Ganoderma interactions. PIPOC Agriculture, Biotechnology and Sustainability Conference, Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, August 26-30, pp: 228-247
11. Abeywardena, M., Sundram, K., Sambanthamurthi, R. and Tan, Y.A. (2007). Dietary constituents for functional foods and nutraceutical applications. 12th Asian Chemical Congress, August 23-25, PWTC, Kuala Lumpur, Malaysia
12. Abeywardena, M., Head, R., Sundram, K., Sambanthamurthi, R., Tan, Y.A. (2007). Bioactives discovery and substantiation: Oil palm phenolics (OPP) as a novel mix of bioactives to promote cardiovascular health, 50 years of Phytochemical Society of Europe Symposium, April 11-14, Cambridge U.K.
13. Leow, S.S., Tan, Y.A., Sundram, K., Sekaran, S.D., Wahid, M.B. and Sambanthamurthi, R. (2007). Oil palm phenolics caused differential expression of cholesterol biosynthesis genes in livers of mice on a wellness diet. 5th Euro Fed Lipid Congress, September 16-19, Gothenburg, Sweden
14. Leow, S.S., Tan, Y.A., Sundram, K., Sekaran, S.D., Wahid, M.B. and Sambanthamurthi, R. (2007). Oil palm phenolics caused differential expression of lipid catabolism and cholesterol biosynthesis genes in livers of mice on a wellness diet. MPOB International Palm Oil Congress (PIPOC), August 26-30, KLCC, Kuala Lumpur
15. Mohammed, S., Othman, A., Abdullah, S.N.A., Abd Manaf, M.A. and Sambanthamurthi, R. (2007). Confirmation of activity of oil palm stearoyl-acyl carrier protein desaturase by complementation study in Arabidopsis thaliana. Proceedings of the Malaysia International Commodity Conference & Showcase (MICCOS). Visionary Agriculture: Malaysian commodity crops in 100 years. 3-4 July, Putra World Trade Centre, Kuala Lumpur. pg 367
16. Rasid, O.A., Nor Hanin, A., Masura, S.S., Masani, M.Y.A., Singh R., Ho, C.L., Suhaimi, N., Parveez, G.K.A. and Sambanthamurthi, R. (2007). Lycopene: Genetic Engineering of a potential nutraceutical. Proceedings of the PIPOC Agriculture, Biotechnology and Sustainability Conference, August 26-30, pp: 1054-1062
17. Sambanthamurthi, R., Sundram, K., Tan, Y.A., Balasundram, N., Che Idris, C. A., Sekaran, S.D., Abeywardena, M. and Wahid, M.B. (2007). Drug discovery in the aqueous stream of palm oil milling. 5th Euro Fed Lipid Congress, September 16-19, Gothenburg, Sweden
18. Sambanthamurthi, R., Sundram, K., Tan, Y.A., Balasundram,N., Che Idris, C.A., Sekaran, S.D. and Wahid, M.B. (2007). Capturing value in the oil palm via phenolic antioxidants. Proceedings of the Product Development & Nutrition Conference, PIPOC 2007 International Palm Oil Congress, 27-30 August 2007, Kuala Lumpur, Malaysia
19. Tan, Y.A., Sundram, K, Choo**,** Y.M. Gapor, M.T. and Sambanthamurthi, R. (2006). Palm derived functional food components. Paper presented at the 4th Euro Fed Lipid Congress – Fats, Oils and Lipids for a Healthier Future, Madrid, 1-4 October 2006
20. Sambanthamurthi, R. Tan, YA, Sundram, K. and Wahid, M.B. (2006). From biowaste to bioproducts: Phenolic antioxidants from oil palm waste. Poster paper presented at the XXXIII International Conference on Polyphenols, August 22-25, 2006, Winnipeg, Manitoba, Canada.
21. Abeywardena, M., Sundram,K., Sambanthamurthi, R., Tan, Y. A. and Basiron, R. (2005). Palm fruit polyphenol compounds: A novel mix of bioactives from palm oil mill effluent? Technological breakthroughs and commercialisation - the way forward, PIPOC 2005 International Palm Oil Congress 25-29 Sept 2005, Sunway Pyramid Convention Centre/Sunway Lagoon Resort Hotel, Petaling Jaya, Malaysia.
22. Balasundram, N., Tan, Y.A., Sambanthamurthi, R., Sundram, K. and Samman, R. (2005) . Palm phenolics raise HDL cholesterol and plasma antioxidant status in hamsters. Proceedings of the Nutrition & Functional Food Conference, PIPOC 2005 International Palm Oil Congress, 25-29 September 2005, Sunway Pyramid Convention Centre/Sunway Lagoon Resort Hotel, Petaling Jaya, Malaysia
23. Parveez, G. K. A., Othman,A., Masani, M.Y.A., Ramli, U. S., Sambanthamurthi, R., Bahariah, B., Nurfariza, M. S., Yeun, L.H., Nurhanin, A., Ahmad Tarmizi, H., Zamzuri, I., Cheah, S. C., Ahmad Kushairi, D., Wahid, M.B.,York, G. and Yeong B. J. (2005). Value addition of oil palm through genetic engineering. Proceedings of the 2005 Conference on Biotechnology of Plantation Commodities. ‘Biotechnology – Emerging Frontier for Plantation Commodities’ at Malaysia International Exhibition and Convention Centre (MIECC), Mines Resort City, Seri Kembangan, Selangor, 9-11 August 2005. pp 198-210
24. Safiza, M., Abrizah, O., Abdullah, S.N.A, Abd Manaf, M. A. and Sambanthamurthi, R., (2005). Construction of stearoyl-ACP desaturase gene expression vectors for substrate specificity studies in Arabidopsis thaliana. Proceedings of the 2005 Conference on Biotechnology of Plantation Commodities. ‘Biotechnology – Emerging Frontier for Plantation Commodities’ at Malaysia International Exhibition and Convention Centre (MIECC), Mines Resort City, Seri Kembangan, Selangor, 9-11 August 2005. pp 518-528
25. Parveez G.K.A., Othman, A., Masani, M.Y.A., Omar , Abdullah, S.N.A., Ramli, U.S., Sambanthamurthi, R., Bahariah, B., Yeun, L.H., Nur Fariza, M.S., Tarmizi, A.H., Zamzuri, I. and Kushairi A.D. (2004). Production of transgenic oil palm carrying genes for modifying fatty acid composition of palm oil. The Fourth Oils and Fats International Congress (OFIC) 29 Sept -2 Oct 2004, Putra World Trade Centre, Kuala Lumpur, Malaysia
26. Parveez, G.K.A., Othman. A., Masani, M.Y.A., Abdullah. S.N.A., Ramli, U.S. Sambanthamurthi, R., Bahariah, B., Tarmizi, A.H., Zamzuri, I. Kushairi, A.D., Cheah, S.C. and Wahid, M. B. (2004). Genetic engineering for modifying fatty acid composition of palm oil. Proceedings of 16th International Plant Lipid Symposium, 1-4 June 2004, Budapest, Hungary
27. Balasundram,N., Tan, Y.A, Sambanthamurthi,R., Sundram, K. and Samman, S. (2003). Antioxidant properties of palm fruit extracts. Paper presented at PIPOC 2003, 24-28 August, Putrajaya Marriot Hotel, Putrajaya, Malaysia
28. Halimoon, N., Tan, Y.A., Sundram, K., Hamid, A. and Sambanthamurthi, R. (2003). Biological and chemical studies of phenolics with potential nutraceutical applications from palm oil mill. Paper presented at PIPOC 2003, 24-28 August, Putrajaya Marriot Hotel, Putrajaya, Malaysia
29. Najwa, A.B., Gabriel, A., Sundram, K., Sambanthamurthi, R. Tan, Y. A. and Sekaran, M.B. (2003). Potential tumour regression properties of palm water soluble antioxidants. Paper presented at PIPOC 2003, 24-28 August, Putrajaya Marriot Hotel, Putrajaya, Malaysia
30. Sambanthamurthi, R., Sundram, K. and Tan, Y. A. (2003). From bio-waste to bio-products – Nutraceuticals from POME Paper presented at PIPOC 2003, 24-28 August, Putrajaya Marriot Hotel, Putrajaya, Malaysia
31. Sambanthamurthi, R., Sundram, K. and Tan, Y.A. (2003). Palm oil mill effluent –From Biowaste to bioflavonoids Paper presented at the UNESCO Workshop on Free Radicals, 18th July 2003, Nexus Resort, Sabah, Malaysia
32. Sambanthamurthi,R., Sundram, K. and Tan, Y.A. (2003). Towards drug discovery in the oil palm fruit. Paper presented a the ADME/Toxicology Conference, 17th -20th Nov 2003, Boston, USA
33. Sambanthamurthi, R., Abdullah, S.N.A. and Parveez G.K.A. (2002). Niche products from the oil palm through genetic engineering. Presented at the Third Oils and Fats International Conference (OFIC) 7-10 Oct 2002, Putra World Trade Centre, Kuala Lumpur, Malaysia
34. Sundram, K., Tan, Y.A. and Sambanthamurthi, R (2002). New emerging antioxidants, phenolics and flavonoids from palm processing. Paper presented at the conference on “A fresh look at antioxidants: Food applications, nutrition & health” 14-16 April 2002, Cambridge University, U.K.
35. Tan, Y.A., Sundram, K., and Sambanthamurthi, R. (2002). Antioxidant activities of oil palm (*Elaeis guineensis*) phenolics in vegetable oils. Poster paper presented at the Conference on “A fresh look at antioxidants: Food applications, nutrition & health” 14-16 April, 2002, Cambridge University, U.K.
36. Tan, Y.A., Sundram, K. and Sambanthamurthi, R. (2001). Water soluble phenolics from the palm oil industry. Proceedings of the Eurofoodchem XI Meeting entitled Biologically active phytochemicals in food. 26-28 Sept 2001, Norwich Research Park, Norwich U.K.
37. Abdullah S.N.A., Sambanthamurthi, R. and Parveez G.K.A. (2001). Genetic modification of oil palm for producing novel oils. Proceedings 2001 PIPOC International Palm Oil Congress : cutting-edge technologies for sustained competitiveness, Agriculture Conference 20-22 Hotel Istana Kuala Lumpur, Malaysia
38. Sambanthamurthi, R., Rajanaidu, N. and Parman, S.H. (2000). Lipid catabolism complex lipid degradation: Screening for lipase activity in the oil palm. Biochem Soc Trans. 28 (6):769-70
39. Willis, L.B., Wan Omar, W.S., Lessard, P.A., Sambanthamurthi, R., Sinskey, A. J. and Rha, C.K. (2000). Towards metabolic engineering of oil palm. Malaysia-MIT Biotechnology Partnership Program Symposium, 16-18 November 2000, Kuala Lumpur
40. Sambanthamurthi, R., Othman, A. and Ramli, U.S. (1996). Towards understanding the biochemical factors that affect of composition and quality in the oil palm. PIPOC ISOPB International Conference on Oil and Kernel Production in Oil Palm, 27-28 September 1996, Kuala Lumpur
41. Sambanthamurthi, R. (1996). Acetyl-CoA carboxylase activity in the oil palm. Twelfth International Symposium on Plant Lipids held in Toronto, 7-12 July 1996.
42. Othman, A. and Sambanthamurthi, R. (1995). Acyl-ACP thioesterase(s) in the oil palm mesocarp (*Elaeis guineensis*). Symposium on Biochemistry and Molecular Biology of Plant Lipids, California, 6-4 June 1995
43. Oo, K.C., Loo, S.H., Rameshvaran, K., Yong, S., Sambanthamurthi, R. and Chung, C.M. (1994). Characterisation of oleosins and other proteins on isolated oil bodies from mesocarp and kernel of the oil palm (*Elaeis guineensis*). 11th FAOBMB Symposium on Biopolymers and Bioproducts, 15-18 November, Bangkok, Thailand
44. Othman, A., Omar, O., Noor Embi, M. and Sambanthamurthi, R. (1994). Purification and characterization of acyl ACP thioesterase from the oil palm mesocarp. 11th FAOBMB Symposium on Biopolymers and Bioproducts, 15-18 November, Bangkok, Thailand
45. Ramli, U.S., Omar, O., Noor Embi, M. and Sambanthamurthi, R. (1994). Purification and characterisation of β-keto acyl ACP synthase II from the oil palm (*E. guineensis*) mesocarp. 11th FAOBMB Symposium on Biopolymers and Bioproducts, 15-18 November, Bangkok, Thailand
46. Sambanthamurthi, R. and Oo, K.C. (1994). Factors affecting lipase activity in the oil palm (*Elaeis guineensis*) mesocarp. Eleventh International Meeting on Plant Lipids, 26 June - I July 1994, Paris
47. Oo, K.C., Lee, C. P. and Sambanthamurthi, R. (I993). Purification and properties of palm kernel lipase from germinated palm seedlings. Proceedings of the PORIM International Palm Oil Congress, 512-517
48. Ramli, U.S., Omar, O., Noor Embi, M. and Sambanthamurthi, R. (1993). Partial purification and characterization of β-keto acyl ACP synthase II in the oil palm (*Elaeis guineensis*) mesocarp. International Symposium on Applications of Plant In Vitro Technology, 6-18 November
49. Oo, K.C., Sambanthamurthi, R. and Ong, A.S.H. (1987). Biosynthesis of palm oil. International Oil Palm/Palm Oil Conference 29 June - I July 1987, Kuala Lumpur, Malaysia

## National Conferences Symposia and Workshops

1. Sambanthamurthi (2022). Water-soluble palm fruit extracrt: Journey from Discovery to Commercial Reality. MPOB Webinar series
2. Sambanthamurthi (2020). Oil Palm Phenolics: Discovery, production and applications. Invited speaker at Webinar on A Digital Reset to Managing Yield and Productivity organised by the Malaysian Oil Scientists and technologists Association August 28
3. Sambanthamurthi (2019). Sowing The Seeds of The New Green Revolution: The oil palm biotechnology story. National Conference on Scientific Research Achievements by Malaysian Women, March 9, University of Malaya, Kuala Lumpur, Malaysia
4. Leow SS, Tan YA, Sundram K and Sambanthamurthi R (2011). Microarray mining for the neuroprotective effects of oil palm phenolics. 9th Malaysia Genetics Congress, Pullman Hotel, Kuching, Sarawak, September 28-30
5. Leow. S.S., Tan, Y.A., Sundram, K., Wahid, M.B., Sekaran, S.D. and Sambanthamurthi, R. (2009). Attenuating the effects of an atherogenic diet: Anti-inflammatory and antioxidant mechanisms of oil palm phenolics. Symposium on Plant Polyphenols: Nutrition, Health and Innovations, June 22-23, Crowne Plaza Mutiara Hotel, Kuala Lumpur, Malaysia
6. Leow, S.S., Tan, Y.A., Sundram, K., Wahid, M.B., Sekaran, S.D. and Sambanthamurthi, R. (2009). Mining microarrays for the anti-cancer mechanisms of oil palm phenolics. The Regional Conference on Molecular Medicine, Renaissance Hotel, May 2-4, Kota Bharu, Kelantan, Malaysia
7. Mohammed,S., Othman, A Abdullah, S.N. A., Abd Manaf, M. A. and Sambanthamurthi, R. (2007). Confirmation of activity of oil palm stearoyl-acyl carrier protein desaturase by complementation study in Arabidopsis thaliana. Poster presented at the 2007 Conference on Plantation Commodities. Visionary agriculture: Malaysian commodity crops in 100 years. 3-4 July, Putra World Trade Centre, Kuala Lumpur
8. Parveez, G.K.A., Masani, M.Y.A., Sambanthamurthi, R. and Kushairi, A. (2007). Transgenic oil palm synthesizing biodegradable plastics. Proceedings of the 2007 Conference on Plantation Commodities, 3-4 July, Putra World Trade Centre, Kuala Lumpur, Malaysia
9. Rasid, O. A., Nor Hanin, A., Masura, S.S., Ho, C. L., Suhaimi, N. and Sambanthamurthi, R. (2007). Regulation of Oil Palm (*Elaeis guineensis*) Zeaxanthin Epoxidase in Developing Mesocarp Tissues Determined by Real-time PCR. Conference on Plantation Commodities, July 3-4, Putra World Trade Centre, Kuala Lumpur, Malaysia. pp: 233
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