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EDUCATION/EMPLOYMENT

2003-2006	First Class Degree, BSc Biotechnology, Universiti Putra Malaysia
2006	Tutor, Department of Biology, Faculty of Science, UTM
2007-2011	PhD in Molecular Biology, Cardiff University, UK
2012-2014	Senior Lecturer, Department of Biotechnology and Medical Engineering, Faculty of Biosciences and Medical Engineering, UTM
2014-2016	Postdoctoral Fellow, Centre of Geogenetics, University of Copenhagen, Denmark
2017-present	Senior Lecturer, Department of Biosciences, Faculty of Science, UTM

ACADEMIC AND TRAVELLING AWARDS

2020	UTM Faculty of Science Teaching and Learning Award for Year 2019
2019	UTM Excellence in Service Award for Year 2018
2014-2016	KPT Postdoctoral Training Scholarship
2013	BIOMALAYSIA 2013 – Bioinnovation Award (Bronze Medal)
2012	UTM Excellence in Service Award for Year 2011
2009	Charles Coles Travelling Scholarship
2009	The Gillian Powell Memorial Travel Scholarship
2008	Cardiff University Graduate School Travel Bursary Award
2007-2011	University Academic Training PhD Scholarship

RESEARCH GRANTS AWARDED

2021-2022	Geran KPT Konsortium Kecemerlangan Penyelidikan: Malaysian AI & bioinformatics-driven Computational biodiscovery (MACBio). Co-researcher. RM 500000.
2020-2023	Fundamental Research Grant Scheme (FRGS). A Novel Intuitive Visualization Method for Mitochondrial DNA Data Exploration of Malaysian Species. Co-researcher. RM 158270.
2018-2022	UTM-Transdisciplinary Research Grant: MYDNAMARK: Nation-wide Genomic Project for Malaysian Species. Co-researcher. RM 200000.
2019- 2021	Fundamental Research Grant Scheme (FRGS). Species richness and DNA barcoding of sea cucumber species from Malaysia seawaters. Co-researcher. RM 68500
2019-2020	Fundamental Research Grant Scheme (FRGS). Impacts of Oil Palm Management Practices on Microbial Communities of Peat Carbon Cycle in Tropical Peatland. Co-researcher. RM 108200
2018-2020	Networking Grant with JBiotech: (NCTF) Population Genetics and Distribution of Johor Seahorses for Conservation Application. Co-researcher. RM 20000
2018-2019	MRUN Translational Grant: Transformasi Peternakan Lebah Kelulut Lestari bagi Pemerkasaan Sosio-ekonomi Komuniti dan Ekologi. Co-researcher. RM 100000
2018-2019	Translational Research Grant (TRGS): Penghasilan Madu Premium Berasaskan Inovasi Mustafa-Hive dan Hilda System. Co-researcher. RM 585000
2018-2020	Research University Grant (RUG) UTM Tier 1. Expansion of Malaysian Mammal Mitogenome Reference Database for Biodiversity Monitoring. PI. RM50000
2017-2020	Fundamental Research Grant Scheme (FRGS). Expansion of Southeast Asian

	Mammals Mitogenome Reference Database for Biodiversity Monitoring In Malaysia. PI. RM 99000
2017-2019	Research University Grant (RUG) UTM Tier 1. Molecular identification and phylogenetic analysis to discriminate species in selected supplemented herbal product of Kacip Fatimah. Co-researcher. RM39000
2016-2018	Fundamental Research Grant Scheme (FRGS). Profiling of adulterant in Tongkat Ali drink product using real time coupled with high resolution melting analysis. Co-researcher. RM 86700
2014-2016	Research University Grant (RUG) UTM Tier 1. DNA barcoding for Herbal Product Authentication. PI. RM50000
2013-2014	Research University Grant (RUG) UTM Flagship. Bio-fortification of Food Crops for Enhanced Food Security. Co-researcher RM450000
2013	Research University Grant (RUG) UTM Tier 1. Molecular cloning of carnitine acetyltransferase (CAT) from psychrophilic yeast, Glaciozyma antarctica PI12 by Rapid amplification of complementary ends (RACE). PI. RM43900
2012-2014	Research University Grant (RUG) UTM Tier 1. The Development of a New Optical Biosensor based on immobilized arsenite oxidase for rapid detection of arsenite. Co-researcher. RM46000
2012-2014	Research University Grant (RUG) UTM Tier 1. Development of Enzymes and Microbial approaches for bioconversion of biomass. Co-researcher. RM135000

TEACHING

Research Methodology, Introduction to Biomolecules, Cellular Biochemistry and Metabolism, Techniques in Molecular Biology, Cellular and Molecular Biology, Genetic Engineering, Molecular Mechanisms in Gene Expression and Regulation

ADMINISTRATIVE POST

Quality Manager (2017- present), MMBT Postgraduate Programme Coordinator (2013-2014), Industrial Training Supervisor, Academic Advisor

EDITORIAL

Review Editor on the Editorial Board of Microbiotechnology, Ecotoxicology and Bioremediation (2019-present)
Editor for Jurnal Teknologi – a SCOPUS journal by Penerbit UTM (2013 – 2014)

SUPERVISION-Ongoing

PhD : Puteri Nur Syahzanani Jahari (Starts Feb 2020)
MSc : Marylia Miga, Adlia Adhiha Mohd Nooh (Starts March 2021), Jonathan Goh Jia En (Starts Feb 2020)
BSc : Eric Ng Zhen Xiang, Lau Siew Qing, Teoh Yee Jing, Nevin Ng Yan Wen (Start Oct 2020)

SUPERVISION-Graduated

PhD : Bashir Abubakar (2018), Shahkila Binti Mohd Arif (2017), Teoh Wei Kheng (2017), Bashir Sajo Mienda (2016)
MSc : Auni Aqilah Ahmad Tarmizi (2020), Choy Oi Yee (2020), Puteri Nur Syahzanani Jahari (2019), Ooi Zhi Sin (2019), Nurain Najwa Mohd Zawai (2018), Nur Hazwani Mohd Izham (2018), Fikri Fauzi, Anis Adibah Osman, Bashir Abubakar (2014), Manaf Almatar, Arman Amani Babadi (2013)
BSc : Lam Yan Tung, Oon Jian Yeh, Low Hui Li (2020), Foo Shi Xiang, Sim Kah Shean (2019), Thong Hui Yee, Fatin Liyana Yusli, Nur Umairah Abdul Razak (2018), Kong Pui San, Loh Chin Yap, Chua Yee Lin, Mohammad Saddam Jusoh (2015), Angela Ch'ng Chiew Wen, Nurfaraim Damiron, Nazirul Akmal Ismail Latif (2014)

Patents/ Copyrights/ Filing

2020 Bio-detective Module: Facts and Practical
2019 MyDNAmark: Conceptual Design for Crowdsourcing Biodiversity Tagging Application
2017 Module for Short Course of Microbe World: Facts and Practical
2013 MYRICE: Malaysian Rice Knowledge Database

Research Metrics

H-index: 9, Total Citations: 417 (up to Feb 2021)
Google Scholar Profile: http://scholar.google.com.my/citations?user=nCeNnX4AAAAJ&hl=en
ORCid: http://orcid.org/0000-0001-7492-583X

PUBLICATIONS

1. Jahari PNS, Azman SM, Munian K, Ruzman NHA, Shamsir MS, Richter SR, et al. Characterization of the mitogenomes of long-tailed giant rat, Leopoldamys sabanus and a comparative analysis with other Leopoldamys species [Internet]. Mitochondrial DNA Part B. 2021. p. 502–4. Available from: http://dx.doi.org/10.1080/23802359.2021.1872433

2. Jahari PNS, Mohd Azman S, Munian K, Zakaria NA, Omar MSS, Richter SR, et al. The first mitochondrial genome data of an old world fruit bat, Cynopterus sphinx from Malaysia. Mitochondrial DNA Part B [Internet]. Taylor & Francis; 2021;6:53–5. Available from: https://doi.org/10.1080/23802359.2020.1846472

3. Abubakar BM, Salleh FM, Wagiran A, Abba M. Comparative evaluation of different DNA extraction methods from E. longifolia herbal medicinal product. eFood [Internet]. Atlantis Press; 2021 [cited 2021 Feb 16]; Available from: https://www.atlantis-press.com/journals/efood/125952411

4. Jahari PNS, Mohd Azman S, Munian K, M. Fauzi NF, Shamsir MS, Richter SR, et al. The first complete mitochondrial genome data of Geoffroy's rousette, Rousettus amplexicaudatus originating from Malaysia. null [Internet]. Taylor & Francis; 2020;5:3280–2. Available from: https://doi.org/10.1080/23802359.2020.1812449

5. Jahari PNS, Mohd Azman S, Munian K, Ahmad Ruzman NH, Shamsir MS, Richter SR, et al. Molecular identification and phylogenetic analysis of a Callosciurus notatus complete mitogenome from Peninsular Malaysia. null [Internet]. Taylor & Francis; 2020;5:3022–4. Available from: https://doi.org/10.1080/23802359.2020.1797583

6. Jahari PNS, Abdul Malik NF, Shamsir MS, Gilbert MTP, Mohd Salleh F. The first complete mitochondrial genome data of Hippocampus kuda originating from Malaysia. Data in Brief [Internet]. 2020;31:105721. Available from: http://www.sciencedirect.com/science/article/pii/S2352340920306156

7. Abd Aziz AA, Mohamed F, Chan VS, Mokhtar MK, Isham MIM, Zulkifli I, et al. Conceptual Design for Crowdsourcing Biodiversity Tagging Application. SoMeT [Internet]. 2019. p. 711–24. Available from: https://www.researchgate.net/profile/Chan_Vei_Siang/publication/337047868_Conceptual_Design_for_Crowdsourcing_Biodiversity_Tagging_Application/links/5dc3d360a6fdcc2d2ff7e84f/Conceptual-Design-for-Crowdsourcing-Biodiversity-Tagging-Application.pdf

8. Fadzil NF, Wagiran A, Mohd Salleh F, Abdullah S, Mohd Izham NH. Authenticity Testing and Detection of Eurycoma longifolia in Commercial Herbal Products Using Bar-High Resolution Melting Analysis. Genes [Internet]. Multidisciplinary Digital Publishing Institute; 2018 [cited 2018 Aug 13];9:408. Available from: http://www.mdpi.com/2073-4425/9/8/408

9. Abubakar BM, Izham NHM, Salleh F, Omar MSS, Wagiran A. Comparison of Different DNA Extraction Methods from Leaves and Roots of Eurycoma longifolia Plant. Adv Sci Lett [Internet]. 2018;24:3641–5. Available from: https://www.ingentaconnect.com/content/asp/asl/2018/00000024/00000005/art00132

10. Abubakar BM, Salleh FM, Shamsir Omar MS, Wagiran A. Assessing product adulteration of Eurycoma longifolia (Tongkat Ali) herbal medicinal product using DNA barcoding and HPLC analysis. Pharm Biol [Internet]. 2018;56:368–77. Available from: http://dx.doi.org/10.1080/13880209.2018.1479869

11. Mohd Salleh F, Salleh FM, Ramos-Madrigal J, Peñaloza F, Liu S, Sinding Mikkel-Holger S, et al. An expanded mammal mitogenome dataset from Southeast Asia. Gigascience [Internet]. 2017;6:1–8. Available from: http://dx.doi.org/10.1093/gigascience/gix053

12. Mohammed Abubakar B, Mohd Salleh F, Shamsir Omar MS, Wagiran A. DNA Barcoding and Chromatography Fingerprints for the Authentication of Botanicals in Herbal Medicinal Products. Evid Based Complement Alternat Med [Internet]. Hindawi Publishing Corporation; 2017;2017. Available from: https://www.hindawi.com/journals/ecam/2017/1352948/abs/

13. Abubakar BM, Salleh FM, Wagiran A. Chemical Composition of Eurycoma longifolia (Tongkat Ali) and the Quality Control of its Herbal Medicinal Products. J Appl Sci [Internet]. 2017;17:324–38. Available from: http://www.scialert.net/abstract/?doi=jas.2017.324.338

14. Teoh WK, Salleh FM, Shahir S. Characterization of Thiomonas delicata arsenite oxidase expressed in Escherichia coli. 3 Biotech [Internet]. 2017;7:97. Available from: http://dx.doi.org/10.1007/s13205-017-0740-7

15. Roberton SI, Gilbert MTP, Campos PF, Salleh FM, Tridico S, Hills D, et al. Lowe's Otter Civet Cynogale lowei does not exist. Small Carniv Conserv [Internet]. 2017;55:42–58. Available from: http://www.cepf.net/SiteCollectionDocuments/indo_burma/TechnicalReport-WCS-LowesOtterCivet.pdf

16. Sajo Mienda B, Mohd Salleh F, 1 Department of Microbiology & Biotechnology, Federal University Dutse, PMB 7156, Dutse, Jigawa State, Nigeria, 2 Faculty of Biosciences & Medical Engineering, Universiti Teknologi Malaysia, 81310 Skudai Johor Bahru, Malaysia. Bio-succinic acid production: Escherichia coli strains design from genome-scale perspectives. AIMS Bioengineering [Internet]. 2017;4:418–30. Available from: http://www.aimspress.com/article/10.3934/bioeng.2017.4.418

17. Salleh FM, Mariotti L, Spadafora ND, Price AM, Picciarelli P, Wagstaff C, et al. Interaction of plant growth regulators and reactive oxygen species to regulate petal senescence in wallflowers (Erysimum linifolium). BMC Plant Biol [Internet]. 2016;16:77. Available from: http://dx.doi.org/10.1186/s12870-016-0766-8

18. Tuhina-Khatun M, Hanafi MM, Rafii Yusop M, Wong MY, Salleh FM, Ferdous J. Genetic Variation, Heritability, and Diversity Analysis of Upland Rice (Oryza sativa L.) Genotypes Based on Quantitative Traits. Biomed Res Int [Internet]. 2015;2015:290861. Available from: http://dx.doi.org/10.1155/2015/290861

19. Mienda BS, Shamsir MS, Salleh FM. In silico Evaluation of the Effect of Pfl Gene Knockout on the Production of D-lactate by Escherichia coli Genome Scale Model Using the Optflux Software Platform. Indian J Sci Technol [Internet]. 2015 [cited 2017 Aug 30];8:172–7. Available from: http://www.indjst.org/index.php/indjst/article/view/56501

20. Mienda BS, Shamsir MS, Salleh FM, Illias RM. In silico prediction of Escherichia coli metabolic engineering capabilities for 1-butanol production. Curr Sci [Internet]. INDIAN ACAD SCIENCES CV RAMAN AVENUE, SADASHIVANAGAR, PB# 8005, BANGALORE 560 080, INDIA; 2015;108:686. Available from: http://www.currentscience.ac.in/cs/Volumes/108/04/0686.pdf

21. Mienda BS, Shamsir MS, Salleh FM. In silico metabolic engineering prediction of Escherichia coli genome model for production of D-lactic acid from glycerol using the OptFlux software platform. International Journal of Computational Bioinformatics and In Silico Modeling [Internet]. 2014;3:460–5. Available from: https://www.researchgate.net/profile/Bashir_Mienda/publication/264638700_In_silico_metabolic_engineering_prediction_of_Escherichia_coli_genome_model_for_production_of_D-lactic_acid_from_glycerol_using_the_OptFlux_software_platform/links/53eb5fca0cf2593ba70879c3/In-silico-metabolic-engineering-prediction-of-Escherichia-coli-genome-model-for-production-of-D-lactic-acid-from-glycerol-using-the-OptFlux-software-platform.pdf

22. Talkah NSM, Salleh FM, Shamsir MS, Rahmat Z, Wagiran A, Sarmidi MR, et al. MyRice: Pangkalan Data Pengetahuan Padi Malaysia. Jurnal Teknologi [Internet]. 2014 [cited 2017 Aug 30];70. Available from: http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/3547

23. Rahmat Z, Wagiran A, Nazir NM, Arif SM, Zulkifli SNA, Samad AA, et al. Potensi Padi Bukit sebagai Alternatif kepada Padi Sawah. Jurnal Teknologi [Internet]. 2014 [cited 2017 Aug 30];70. Available from: http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/3546

24. Babadi AA, Salleh FM. High Quality cDNA synthesis and Amplification of Chalcone Synthase Gene (CHS) from Justicia gendarussa Burm. F. Jurnal Teknologi [Internet]. 2013 [cited 2017 Aug 30];64. Available from: http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2039

25. Almatar M, Rahmat Z, Salleh FM. Preliminary morphological and anatomical study of Orthosiphon stamineus. 2013; Available from: http://imsear.li.mahidol.ac.th/handle/123456789/157244

26. Hamdan N, Samad AA, Hidayat T, Salleh FM. Phylogenetic analysis of eight malaysian pineapple cultivars using a chloroplastic marker (rbcl gene). J Teknol [Internet]. 2013;2:29–33. Available from: https://www.researchgate.net/profile/Azman_Abd_Samad2/publication/275480348_Phylogenetic_Analysis_of_Eight_Malaysian_Pineapple_Cultivars_using_a_Chloroplastic_Marker_rbcL_gene/links/55e7b08408aeb6516262e763/Phylog

enetic-Analysis-of-Eight-Malaysian-Pineapple-Cultivars-using-a-Chloroplastic-Marker-rbcL-gene.pdf

27. Salleh FM, Evans K, Goodall B, Machin H, Mowla SB, Mur LAJ, et al. A novel function for a redox-related LEA protein (SAG21/AtLEA5) in root development and biotic stress responses. Plant Cell Environ [Internet]. Wiley Online Library; 2012;35:418–29. Available from: http://onlinelibrary.wiley.com/doi/10.1111/j.1365-3040.2011.02394.x/full

28. Salleh FM. Senescence and oxidative stress in wallflowers and Arabidopsis [Internet]. Cardiff University (United Kingdom); 2011. Available from: http://search.proquest.com/openview/ed3005d4f2c68546e43eaf767e8e0ffc/1?pq-origsite=gscholar&cbl=2026366&diss=y

29. Price AM, Aros Orellana DF, Salleh FM, Stevens R, Acock R, Buchanan-Wollaston V, et al. A comparison of leaf and petal senescence in wallflower reveals common and distinct patterns of gene expression and physiology. Plant Physiol [Internet]. 2008;147:1898–912. Available from: http://dx.doi.org/10.1104/pp.108.120402

CONFERENCES, PROCEEDINGS, SEMINARS

1. Puteri Nursyahzanani Jahari, Faezah Mohd Salleh, Mohd Zulkifli Mustafa, M. Thomas P. Gilbert. Honey Metabarcoding: Tracking Anthropod and Botanical Origin, Monash Science Symposium 2018.Add AFOB 2018.
2. Auni Aqilah Ahmad Tarmizi, Faezah Mohd Salleh , Alina Wagiran, Rosnani Hasham @ Hisam. DNA barcoding and chemical evaluation for the authentication of selected Kacip Fatimah herbal medicinal products in Malaysia. AFOB-Malaysia Chapter International Symposium 2018.
3. Bashir Mohammed Abubakar, Faezah Mohd Salleh and Alina Wagiran. DNA Barcodes for the authentication of Ficus deltoidea (Mas cotek) herbal medicinal product, AIMC 2017/LS296, 2017
4. Bashir Mohammed Abubakar, Faezah Mohd Salleh and Alina Wagiran. DNA Barcoding to detects the level of adulteration in some Malaysian Herbal medicinal products. ICSEMS2016-457, 2016.
5. Bashir Mohammed Abubakar, Nur Hazwani Mohd Izham, Faezah Md Salleh, Mohd Shahir Omar, Alina Wagiran. Assessing product adulteration in selected Malaysian herbal products using DNA barcoding. CAFEi2016-49, 2016.
6. Shahkila Mohd Arif, Nyuk Ling Ma, Faezah Mohd Salleh, Mohd Shahir Shamsir, Alina Wagiran, Azman Abd Samad, Mohd Roji Sarmidi, Zaidah Rahmat. Molecular Phylogeny of RFT Protein On Selected Rice Cultivars. 2nd International Symposium and Workshop on Functional Genomics and Structural Biology.Mines Wellness Hotel, Malaysia. 2014.
7. Faezah Mohd Salleh, Nurul Shakina Mohd Talkah, Mohd Shahir Shamsir, Zaidah Rahmat, Alina Wagiran, Mohd Rafii Yusop, Mohamed Hanafi Musa. MyRice: Pangkalan Data Pengetahuan Padi Malaysia. Persidangan Padi Kebangsaan 2013, MARDI Seberang Jaya Penang, Malaysia. 2013.
8. Shahkila Mohd Arif, Nyuk Ling Ma, Faezah Mohd Salleh, Zaidah Rahmat. Isolation of RFT1 Gene in Malaysian Upland Rice. International Conference on Crop Improvement: Issues and Prospects for Biotechnology Intervention (ICCI2013), Equatorial Hotel, Bangi, Selangor. 2013.
9. Shakina Talkah, Arlina Amirah, Iylia Zulkifli, Parveen Bal, Mohd Shaiful Abdul Rahim, Mohd Shahir Shamsir, Faezah Mohd Salleh, "MyRice, Phyknome and J-Marine: Exemplars biodiversity databases developed using an integrated biodiversity content management system and real-time reporting on mobile app." Biodiversity Informatics Horizon, Rome, Italy. 2013.
10. Faezah Mohd Salleh, Zaidah Rahmat, Mohd Shahir Shamsir, Siti Zulaiha Hanapi, Meor Hakif Amir Hassan. UltraMJ: Identification and Characterization of Metal Hyperaccumulators for Phytoremediation from Ultramafic Flora in Johor Botanical Garden, Malaysia." Pacific Rim Applications and Grid Middleware Assembly (PRAGMA24), Bangkok, Thailand. 2013.

11. Faezah Mohd Salleh, Evans K., Mowla S. B., Foyer C. H., Theodoulou F. L. and Rogers H. J., "SAG21: a LEA protein at the interface of stress and senescence. In Proceeding of the Society of Experimental Botany (SEB) Annual Main Meeting Prague, Czech Republic. 2010.
12. Faezah Mohd Salleh, Mowla S. B., Runions J., Foyer C. H., Theodoulou F. L. and Rogers H. J., "Regulation of Stress and Senescence of SAG21 in Arabidopsis. Proceeding of the Plant Micro-Wales Meeting, Aberystwyth, UK. 2010.
13. Faezah Mohd Salleh, Czenar P., Mowla S. B., Foyer C. H., Theodoulou F. L. and Rogers H. J. "SAG21: a LEA protein at the interface stress responses in Arabidopsis". In Proceeding of the 5th European Plant Senescence Network Meeting, Reading, UK. 2010.
14. Faezah Mohd Salleh, Bennett E., Rogers H. J. "Regulation of cell death and senescence in wallflower (Erysimum linifolium), 4th European Senescence Network meeting, pp 15, Arvidsjaur, Lapland, Sweden. 2009.
15. Faezah Mohd Salleh, Bennett E., Rogers H. J., "Plant Growth Regulators and ROS regulation in leaves and petal of Arabidopsis". Plant Science Wales Annual Symposium, pp 11, Cardiff University, UK. 2009.
16. Faezah Mohd Salleh, Buchanan-Wollaston V., Rogers H. J., "The regulation of senescence and cell death in wallflowers biochemical and molecular approach". Plant Senescence Gordon Research Conference, Mount Holyoke College, Boston, USA. 2008.
17. Faezah Mohd Salleh, Buchanan-Wollaston V., Price A. M., Rogers H.J., "The regulation of cell death and senescence in wallflower leaves". Genomic Arabidopsis Resource Network (GarNET), John Innes Centre Norwich, UK. 2007.

REFERENCES

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