

CURRICULUM VITAE

MOHAMAD ZULFAZLI MOHD SOBRI

B.Sc. & Ph.D. (University of Manchester, UK)

Designation : Senior Lecturer (DS51)
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h-index : 7
Citations : 207



Personal Statement

I am a dedicated professional with extensive expertise in agribusiness, plant biotechnology, and bioentrepreneurship. My academic career spans eight years at the University of Manchester, where I earned a first class BSc in Biotechnology (Enterprise) and a PhD in Plant Sciences, funded by Biasiswa Yang di-Pertuan Agong. For the past 8 years, I have been a dedicated senior lecturer of Universiti Putra Malaysia, where I have been directly involved in designing bachelor and taught master's curricula, teaching various undergraduate and postgraduate courses, and supervising final-year, master's, and PhD students. My research endeavours have secured over RM 400,000 in grants and resulted in more than 20 journal publications, including 12 high-impact papers. I have actively contributed to the faculty and university through numerous committee positions and leadership roles. I am actively engaged in community and industry relations, participating in school outreach, student empowerment, and environmental conservation initiatives. I have collaborated with organizations like Bioeconomy Corporation, SME Bank, Cradle Fund, SSM, MyIPO, NPRA, MABIC, MTDC and many more. I have attended over 15 international and local conferences and participated in more than 30 professional trainings. My international linkages include research with the University of Manchester and NIAB, UK, and teaching collaborations with Swinburne University of Technology, Australia, and Universitas Brawijaya, Indonesia. Committed to fostering knowledge, educating future generations, and addressing food security and environmental sustainability, I am confident in my ability to contribute significantly to your institution.

ACADEMIC QUALIFICATION

QUALIFICATION	INSTITUTION	YEAR	SPECIALISATION
Doctor of Philosophy	University of Manchester, UK	2016	Plant Sciences
Bachelor of Science <i>(First Class Honours)</i>	University of Manchester, UK	2011	Biotechnology (Enterprise)
Diploma	MARA College Banting	2008	International Baccalaureate

Employment

EMPLOYER	DESIGNATION	DEPARTMENT	START	END
Universiti Putra Malaysia	Senior Lecturer	Faculty of Biotechnology and Biomolecular Sciences	05/08/2016	To date
University of Manchester, UK	Honorary Staff	Faculty of Biology, Medicine and Health	10/10/2022	09/07/2023
Universiti Putra Malaysia	Young Academic Fellow	Faculty of Biotechnology and Biomolecular Sciences	05/11/2013	04/08/2016
University of Manchester, UK	Graduate Teaching Assistant	Faculty of Life Sciences	09/2012	09/2014

Teaching Experience

Total credit to date = 72

NO.	COURSE NAME	CREDIT HOUR	TEACHING ASSESSMENT (x/5.0)	CLASS SIZE	SEMESTER
POSTGRADUATE COURSES					
1.	Agribiotechnology BTC5602	3(3+0)	4.68	9	2023/2024-2
2.	Commercialisation in Biotechnology BTK5004	2(2+0)	N/A	5	2021/2022-2
UNDERGRADUATE COURSES					
1.	Biotechnology Business BTC4503	3(1+2)	5.00 4.89	6 12	2023/2024-1 2021/2022-1

			4.85	10	2019/2020-1
2.	Bioentrepreneurship Management BTC4502	3(1+2)	N/A	12	2023/2024-2
			4.93	12	2021/2022-2
			4.87	12	2019/2020-2
			5.00	10	2018/2019-3
3.	Bioentrepreneurship Planning BTC3502	3(2+1)	4.97	12	2023/2024-1
			4.96	12	2021/2022-1
			4.85	12	2019/2020-1
			4.87	10	2018/2019-2
4.	Bioentrepreneurship Concept BTC3501	3(2+1)	N/A	8	2023/2024-2
			4.79	7	2021/2022-2
			4.95	12	2020/2021-2
			4.70	12	2019/2020-2
			4.88	10	2018/2019-1
5.	Biosafety and Bioethics BTC4001	2(2+0)	4.84	48	2021/2022-1
			4.83	46	2020/2021-1
			4.63	25	2019/2020-2
			4.82	56	2019/2020-1
			4.61	48	2018/2019-1
6.	Plant Development Molecular Biology BSM4503	3(3+0)	N/A	50	2018/2019-1
7.	Commercialisation and Current Issues in Biotechnology BTC3002	2(2+0)	4.86	52	2017/2018-2
			4.41	36	2016/2017-2
			4.75	47	2016/2017-2
8.	Introduction to Biotechnology BTC3001	2(2+0)	4.90	35	2016/2017-2
9.	Exploring Biotechnology Fields – Massive Open Online Courses (MOOC)	N/A	N/A	N/A	Starting November 2018

SUPERVISION

NO.	STUDENT NAME	PROJECT TITLE	LEVEL	ROLE	STATUS
POSTGRADUATES					
1.	Mona Sri A/P Santahakumar	Exploring the Synergistic Effects of Graphene Quantum Dots (GQD) and Nanophosphors on Phytophysiology and Phytotoxocity in Low Light Environments	PhD with Thesis	Chairman	On-going (2024- to date)
2.	Wan Nur Zarifah Wan Azamuddin	Synthesis and Charaterisation of Graphene Quantum Dots (GQD) for Boosting Plant Productivity under Lighting Constraint	Master with Thesis	Chairman	On-going (2024- to date)
3.	Saravana Pillay A/L Jeganathan (GS67270)	The City Farmer's Conundrum: Analyzing Low Adoption of Urban Farming in Klang Valley	Master with Coursework	Chairman	Completed (2023/2024)
4.	Nor Saffana Binti Baharuddin (GS53478)	Response Surface Optimization of Extraction Conditions of Medicinal Plant, <i>Mimosa pudica</i> L. and its Micropropagation Protocol	Master with Thesis	Chairman	Completed (2018/2022)
5.	Muhamad Aidilfitri Bin Mohamad Roslan (GS53645)	Development of a Novel Enterobacter- Enriched Alginate-Bead Biofertilizer to Improve Okra (<i>Abelmoschus esculentus</i>) P and K Acquisition, Growth Performance And Productivity	PhD with Thesis	Co-supervisor	Completed (2018/2022)
6.	Munirah Adibah Binti Kamarul	Biochemical Analysis and Functional Characterization of Oil	PhD with Thesis	Co-supervisor	On-going (2021-date)

	Zaman (GS61371)	Palm Ion Transporter Involved in Combined Stresses of Flooding and Salinity			
7.	Leethavani A/P Balachandran (GS60293)	Effect of Mercury on Lowland Tomato Plant and Toxicity in Zebrafish Induced By Mercury-treated Fruit Extracts	Master with Thesis	Co- supervisor	Completed (2021-2023)
8.	Nurul Faqihah Binti Mohd Yusof (GS51233)	Characterising the Putative Role of Type II Metacaspase Gene in Regulating Programmed Cell Death Induced by Endoplasmic Reticulum Stress in Rice (<i>Oryza sativa</i>)	Master with Thesis	Chairman	Withdrawn due to health issues (2018-2022)
9.	Nora'ini Binti Abdullah (GS50958)	Genetic Transformation of Chitinase and Thaumatococcus-like Protein Genes for Sheath Blight Disease Resistance in Malaysia Indica Rice (<i>Oryza sativa</i> L. cv. MR219)	Master with Thesis	Chairman	Withdrawn due to financial issues (2018-2022)
UNDERGRADUATES (Chairman for all Bachelor projects/ dissertations)					
1.	Gao Beier (209638)	illuminating Shadows: An In-depth Analysis of Low Light Challenges in Urban Indoor Plant Cultivation			On-going (2024-2025)
2.	Mohammed Saeed Ali Saeed (209707)	A Valuation Study on the Usage of Mushroom Cloning Pastes for Cell Division in Orchids			On-going (2024-2025)
3.	Nor Ferha Amira Binti Shuhaimi (210174)	Efficiency of in planta Technique in Transferring the Gene Construct into Rice Seeds			On-going (2024-2025)
4.	Nur Suhadah Binti Abdul Kahar (197461)	Farmers' Awareness and Perception Regarding Advanced Technologies for Dioecious Plant Gender Determination			Completed (2021-2022)
5.	Amira Nurnisa Binti Azmi (198509)	A Survey on Mushroom Substrate Selection and Spent Mushroom Substrate Management among Local Mushroom Growers in Malaysia			Completed (2021-2022)
6.	Mohsen Ahmed Mohammed Bawzer (191389)	Optimisation of <i>Mimosa pudica</i> Linn Solvent Extraction using Response Surface Methodology to Enrich its Antioxidative Properties			Completed (2020-2021)

7.	Noor Amani Binti Ramli (192512)	Effects of Medium Composition on <i>in vitro</i> Seed Germination and Shoot Multiplication of <i>Mimosa pudica</i>	Completed (2020-2021)
8.	Liyana Zulfah Binti Mohamad (189910)	Surface Sterilization and Shoot Multiplication of <i>Mimosa pudica</i>	Completed (2019-2020)
9.	Adieya Atyrrah Binti Adnan (140979)	Evaluation of Misai Kucing (<i>Orthosiphon stamineus</i>) Extract on Diabetic Cell Lines	Completed (2019-2020)
10.	Nadine Syamim Binti Samwil (188010)	Expression Study of Effector-related Genes in <i>Colletotrichum gloeosporioides</i> causing Anthracnose Disease in Mango Fruit	Completed (2019-2020)
11.	Muhammad Harith Bin Ismail (182693)	Identification of New Sex-specific Inter-Simple Sequence Repeat (ISSR) Marker in Asam Gelugur (<i>Garcinia atroviridis</i>)	Completed (2018-2019)
12.	Nur Fadzliana binti Saparin (181861)	Investigation of Metacaspase Gene Expressions under Salt, Drought and Endoplasmic Reticulum Stress in Paddy Plant.	Completed (2018-2019)
13.	Nursyamila Izzatie Binti Rosdin (179108)	Antioxidant, Antimicrobial and Wound Healing Activities of Golden Chicken Fern (<i>Cibotium barometz</i>) Methanolic Extracts	Completed (2017-2018)

PUBLICATIONS

(A) Journals - 3 (Q1), 6 (Q2), 2 (Q3), 1 (Scopus), 7 (MyCite)

1. Pannerchelvan, S., Jawlan, L.L.L., Wasoh, H., Mohamed, M.S., Wong, F.W.F., **Sobri, M.Z.M**, Mohamad, R. & Halim, M. (2025). Enhancing cell viability and GABA production in fermented milk using fruit juice-coated alginate microencapsulated *Lactiplantibacillus plantarum* B7 during storage. *International Microbiology*. (4)1-18
2. Adnan, A.A., Khayat, M.E., Halim, M., Wasoh, H., **Sobri, Z.M.** (2024). Evaluation of Misai Kucing (*Orthosiphon stamineus*) extract on diabetic cell line. *Asia Pacific Journal of Molecular Biology and Biotechnology*, 32(4), 114-126 [Scopus]
3. Rosdin, N.I., Khayat, M.E., Chia, S.L., Halim M., Wasoh, H., **Sobri, Z.M.** (2024). Assessment of Antioxidant, Antimicrobial and Wound Healing Potential of Golden Chicken Fern (*Cibotium barometz* (L.) J. Sm.) Methanolic Extracts. *Journal of Biochemistry, Microbiology and Biotechnology*, 12(2), 16-23 [MyCite]
4. Wasoh, H., Sopian, N.A.S., Mohammad Fatin, A.M., Halim, M., **Sobri, M.Z.M.**, Mohd Hashim, A., Yusof, M.T., Pak-Dek, M.S., Abdul Manaf, Y.N., Mohd Desa, M.N., Hamzah, F.M. (2024). Clustering Analysis and Differentiation of Lard from Palm Oil and Soybean Oil

Based on N-Alkane and Triacylglycerides Profiles Using Chemometric Analysis. *Journal of Environmental Microbiology and Toxicology*, 12(2), 13-18 [MyCite]

5. Pannerchelvan, S., Rios-Solis, L., Wasoh, H., **Sobri, M.Z.M.**, Wong, F.W.F., Mohamed, M.S., Mohamad, R., Halim, M. (2024). Functional yogurt: a comprehensive review of its nutritional composition and health benefits. *Food & Function*. doi: 10.1039/d4fo03671a. [Q1]
6. Balachandran, L., Ahmad, S.A., Mohd Amin, A., Shaharuddin, N.A., **Sobri, M.Z.M.**, Azzeme, A.M. (2024). Effect of Mercury Exposure on the Growth and Physiological Characteristics of Lowland Tomato (*Solanum lycopersicum*). *Journal of Biochemistry, Microbiology and Biotechnology*, 12(1), 34-43 [MyCite]
7. Tan, S.W., Koh, Y.Z., Sankaran, S., Wasoh, H., Mohamed, M.S., **Sobri, Z.M.**, Halim, M. (2024). Optimization of Fermentative Parameters to Improve Gamma-Aminobutyric Acid (GABA) Production by *Lactiplantibacillus plantarum* B13. *Journal of Biochemistry, Microbiology and Biotechnology*, 12(1), 7-16 [MyCite]
8. Mahmoudieh, M., Naghavi, M.R., **Sobri, Z.M.**, Azzeme, A.M., Abd-Aziz, N., Nik Abd Rahman, N.M.A., Alitheen, N.B., Hussin, Y., Bahmanrokh, G., Baharum, N.A. (2024). Biotechnological approaches in the production of plant secondary metabolites for treating human viral diseases: Prospects and challenges. *Biocatalysis and Agricultural Biotechnology*, 103249. [Q2]
9. **Sobri, Z.M.** & Gallois, P. (2023). Characterising the Gene Expression, Enzymatic Activity and Subcellular Localisation of *Arabidopsis thaliana* Metacaspase 5 (*AtMCA-IIb*). *Biology*, 12, 1155. [Q1]
10. Yusof, N.F.M., Saparin, N.F., Seman, Z.A., Rahman, Z.A., Sew, Y.S., Roslan, M.A.M., Rahman, N.A.A., Shaharuddin, N.A., Gallois, P., **Sobri, Z.M.***. (2023). Overexpression of type II rice metacaspase, OsMC4, increases endoplasmic reticulum stress tolerance in transgenic rice calli. *Plant Gene*. 3(100421). [Q2]
11. Baharuddin, N.S., Roslan, M.A.M, Ramli, N.A., Azzeme, A.M., Rahman, Z.A., Khayat, M.E., Wasoh, H., **Sobri, Z.M.***. (2023). Revisiting *in vitro* Micropropagation Protocols of *Mimosa pudica* for Enhanced Seed Germination, Shoot Multiplication, and Root Initiation. *Tropical Agricultural Science*, 46(2) [Q3]
12. Shafiee, F.A., Wasoh, H., Halim, M., Gan, Z., **Sobri Z.M.**, Dek, S.P. (2023). Biological and Physicochemical Evaluation of Palm Oil Mill Effluent Final Discharge from Negeri Sembilan, Malaysia. *Journal of Biochemistry, Microbiology and Biotechnology*, 11(2), 20-23. [MyCite]
13. Roslan, M.A.M., **Sobri, Z.M.**, Zuan, A.T.K., Abdul Rahman, N.A. Okra Growth, Yield and Rhizosphere Microbiome Responses to the Encapsulated Bioinoculant Application under Reduced Fertilization Regime. *Biology* 2022, 11, 1107. [Q2]
14. Roslan, M.A.M., **Sobri, Z.M.**, Zuan, A.T.K., Cheak, S.C, Rahman, N.A.A. (2022). Bioprospecting Microwave-alkaline Hydrolysate Cocktail of Defatted Soybean Meal and Jackfruit Peel Biomass as Carrier Additive of Molasses-alginate-bead Biofertilizer. *Scientific Reports*, 12, 254. [Q2]
15. Baharuddin, N.S., Roslan, M.A.M., Bawzer, M.A.M., Azzeme, A.M., Rahman, Z.A., Khayat, M.E., Rahman, N.A.A., **Sobri, Z.M.***. (2021). Response Surface Optimization of Extraction Conditions and *in vitro* Antioxidant and Antidiabetic Evaluation of an Under-valued Medicinal Weed, *Mimosa pudica*. *Plants*, 10, 1692. [Q1]

16. Roslan, M.A.M., Sohedein, I., Ling, P.S., **Sobri, Z.M.**, Zuan, A.T.K., Cheak, S.C., Rahman, N.A.A (2021). Sustainable Agronomic Valorization of Unsulfured Molasses and Defatted Soybean Meal as an Optimized Formulation of Bio-Organic Fertilizer Enriched with High Cell Density P-Solubilizing Bacteria. *Agronomy*, 11, 996 [Q2]
17. Adzif, M.A., Jariah, N.F., Halim, M., Lai, O.M., Sapian, A.A.S., **Sobri, Z.M.**, Manaf, Y.N., Pak Dek, M.S., Wasoh, M. (2021). Performance of *Strobilanthes crispus* Leaves Extract as Potential Antioxidant Compound in Oil-in-water Emulsion. *Bulletin of Environmental Science and Sustainable Management*, 5(2), 33-39 [MyCite]
18. Shafiee, F.A., Wasoh, M., Halim, M., **Sobri, M.Z.M.**, Hashim, A.M. (2021). Evaluation of Toxicity Effect of Palm Oil Mill Effluent Final Discharge by using *Daphnia magna*. *Journal of Biochemistry, Microbiology and Biotechnology*, 9(2), 53-58 [MyCite]
19. Roslan, M.A.M., Zulkifli N.N., **Sobri, Z.M.**, Zuan, A.T.K., Cheak, S.C., Rahman, N.A.A (2020). Seed biopriming with P- and K-solubilizing *Enterobacter hormaechei* sp. improves the early vegetative growth and the P and K uptake of okra (*Abelmoschus esculentus*) seedling. *PLoS ONE* 15(7): e0232860. [Q2]
20. Wong F.W.F., Khayat, M.E., **Sobri, Z.M.**, Ariff, A. (2018) The potential of *Mimosa pudica* as a biopreservative for food products: a bioprocessing perspective. *Nutri Food Sci Int J.* 5(3): 555662
21. Chichkova, N.V., Galiullina, R.A., Mochalova, L.B., Trusova, S.V., **Sobri, Z.M.**, Gallois, P., Vartapetian, A.B. (2017). *Arabidopsis thaliana* phytaspase: identification and peculiar properties. *Functional Plant Biology*, 45(2), 171 [Q3]
22. Wasoh, K., Tajuddin, S., Halim, M., Mohod-Haorul, A.B., **Sobri, M.Z.M.**, Lajis, A.F., Yusof, M.T., Ariff, A. (2017) Antibacterial activity of *Synsepalum dulcificum* leaf extract against *Listeria monocytogenes* and its comparison with *Strobilanthes crispus* and *Morul alba*. *Journal of Bio-Science.* 25: 73-75 [MyCite]

(B) Book Chapter

1. Azzeme A.M, **Sobri, Z.M.**, Ramlan, N.N., Md Zawawi, M.R. (2017). Artificial photons. Nature's Yield and Wonders of Art (NYAWA): Light. Universiti Putra Malaysia Press, 9789679694269 (17-20).

(C) Proceedings

1. Roslan, M.A.M., Zulkifli N.N., **Sobri, Z.M.**, Zuan, A.T.K., Cheak, S.C., Rahman, N.A.A. Evaluation of Plant Growth Promoting Traits of Phosphate Solubilizing Bacteria and Production of Phytohormone SAES-International Symposium on Applied Engineering and Sciences 2019
2. Roslan, M.A.M., Zulkifli N.N., **Sobri, Z.M.**, Zuan, A.T.K., Cheak, S.C., Rahman, N.A.A. Phenotypic Characterization of Plant-Beneficial Traits of *Enterobacter* sp. for Soil Bioinoculant Application. AFOB Malaysian Chapter International Conference 2019

RESEARCH GRANTS (Total = RM424,790.24)

NO.	FUNDING	PROJECT TITLE	ROLE	AMOUNT	STATUS
1.	Geran Putra Siswazah	Synthesis, Characterisation and Toxicity Assessment of Titanium Doped Zinc Oxide Nanophosphors for Safe Biological Applications	Project Leader	RM25,000	On-go (2025- to date)
2.	Geran Sumbangan SKUM (GSS)	Sustainable Waste Management through Black Soldier Fly Larvae Bioeconomy for Food Security	Co-researcher	RM11,290.24	On-going (2025- to date)
2.	Fast-Track Putra Grant, UPM	Unravelling Photocatalysis Efficiency of Graphene Quantum Dots (GQDs) in Boosting Plant Productivity in Low Light Environment.	Project Leader	RM100,000	On-going (2024- to date)
2.	Fundamental Research Grant Scheme (FRGS), MoHE	Identification and Functional Analysis of Oil Palm Ion Transporter Involved in Combined Stresses of Flooding and Salinity	Co-researcher	RM173,500	On-going (2019- to date)
3.	Putra Grant, UPM	Establishment of Cell Suspension Cultures and Hairy Root Cultures of <i>Mimosa pudica</i>	Project Leader	RM50,000	Completed (2018-2021)
4.	Fundamental Research Grant Scheme (FRGS), MoHE	Characterising the Putative Role of Type II Metacaspase Gene in Regulating Programmed Cell Death Induced by Endoplasmic Reticulum Stress in Rice (<i>Oryza sativa</i>)	Project Leader	RM65,000	Completed (2017-2020)

CONFERENCES

NO.	CONFERENCE NAME	LEVEL	ORGANISER	YEAR	ROLE
1.	Biotech Horizon 2024 International Conference	International	Universiti Putra Malaysia	2024	Participant, Judge & Committee

2.	Seminar Antarabangsa Penghayatan Malaysia Madani 2024	International	Universiti Malaya	2024	Participant
3.	UK Malaysia Artificial Intelligence (AI) Conference	International	British High Commission KL & MOSTI	2023	Participant
4.	International Conference On Post Covid Healthcare, Medical Research And Education	International	UiTM & JCHS	2022	Participant
5.	ASAIHL Conference 2022 Emerging Infectious Disease: A Recurrent Threat To Human Society	International	Association of Southeast Asian Institutions of Higher Learning (ASAIHL) & UPM	2022	Participant
6.	Joint International Workshop on Technology Transfer and Commercialization	International	NAM S&T Centre	2021	Participant
7.	Hult Prize UPM 2021	International	United Nations	2021	Keynote Speaker
8.	Technology Transfer and Commercialization	International	BRIN, Indonesia & NAM S&T Centre, India	2021	Participant
9.	International Conference on Emerging Fourth Industrial Revolution (4IR) Technologies for Sustainable Development	International	United Nations & ESCAP	2021	Participant
10.	4th International Conference on Molecular Biology & Biotechnology (ICMBB2021)	International	Malaysian Society for Molecular Biology & Biotechnology	2021	Participant
11.	See The Future Virtual Conference	International	ENAGO	2021	Participant
12.	12th AFOB Asian Regional Symposium (ARS2020)	International, Yogyakarta (Indonesia)	AFOB & Universitas Gadjah Mada	2020	Oral Presenter
13.	7th International Symposium on Applied	International	UPM & KYUTECH, Japan	2019	Poster Presenter

Engineering and Sciences 2019					
14.	National Science Challenge 2018	National	Akademi Sains Malaysia	2018	Invited Speaker
15.	Embracing Biosafety, Biosecurity and Bioethics in Research	National	Malaysian Biosafety and Biosecurity Association & MOSTI	2017	Participant
16.	Bioprocessing and Biomanufacturing Symposium 2017	National	USM & UPM	2017	Committee & Participant
17.	Plant Biology Europe FESB/EPSO Congress	International, Dublin (Ireland)	European Plant Science Organisation	2014	Poster Presenter
18.	Conference “Oxidative Stress and Cell Death in Plants: Mechanisms and Implications”	International, Florence (Italy)	Society of Experimental Botany	2013	Participant

TRAINING/ SEMINAR/ WORKSHOP/ COMPETITION

NO.	PROGRAM	ORGANISER	YEAR	ROLE
TEACHING SCOPE				
1.	Revisiting Self-Instructional Materials (SIM) for Micro-credential Courses	CADe	2025	Participant
2.	Hari Kualiti Inovasi Perkhidmatan Tahun 2024/2024 – Hadiah Mencipta Tema	UPM	2024	Participant
3.	Pertandingan Amalan Terbaik Inovasi Pengajaran dan Pembelajaran antara Fakulti/ Sekolah/ Institut/ Pusat Pembelajaran UPM	UPM	2024	Winner – first price
4.	Bicara Akademia Bersama TNCAA & Majlis Penutup Bulan Pendidik UPM	CADe	2024	Participant

5.	Strategi Jaringan Komuniti untuk SULAM	Centre for Academic Development (CADE)	2024	Participant
6.	Bengkel Pengukuran Pencapaian PEO	CADE	2024	Participant
7.	Penghayatan Falsafah Pendidikan Kebangsaan	CADE	2024	Participant
8.	Measurement of PO Achievement and CQI Implementation: POSE and CAS	CADE	2024	Participant
9.	Constructive Alignment, Learning Outcomes Assessment and Course Assessment Plan Development	CADE	2024	Participant
10.	LINKEDIN for Profesional Network & Cyber Security Awareness for Users	Malaysia Technology Development Corporation (MTDC)	2024	Participant
11.	Kopi AIs: Impress, Inspire And Interact with AI-Driven Presentations	CADE	2024	Participant
12.	Assessment of Learning Outcome	FBSB	2023	Participant
13.	Certified Content Creator MYDIGITAL EDUCATOR @MoHE Program	MoHE	2022	Certified Participant
14.	Reimagine and Redesign Online Learning Experience Instructional	CADE	2020	Participant
15.	Leadership of Higher Education Teaching and Learning	CADE	2020	Participant
16.	HIEPs Design and Techniques	CADE	2019	Participant
17.	Academic Integrity	CADE	2020	Participant
18.	Science Communication Masterclass	FBSB	2019	Participant
19.	PUTRA Massive Open Online Course (PutraMOOC) Workshop	CADE	2018	Participant
20.	Education 4.0 Workshop: Gamifying Learning with 3D Animators	CADE	2018	Participant
21.	Fundamentals of Teaching and Learning Course	UPM	2017	Participant

22.	Innovative Teaching and Learning with Technology: Management and Organizing Tools	CADe	2017	Participant
23.	Active Learning in Large Classroom	CADe	2017	Participant
24.	Supervising Graduate Research	CADe	2017	Participant
25.	Teaching Portfolio Development	CADe	2017	Participant
26.	Fusing Learning with Technology	CADe	2017	Participant
27.	Empowering Students Learning with Innovative Technology	CADe	2017	Participant
28.	Teaching with PutraBLAST	CADe	2017	Participant
RESEARCH SCOPE				
1.	Malaysia Code of Responsible Conduct in Research (MCRCR) Certification Course	Akademi Sains Malaysia	2024	Participant
2.	Training on Plant Physiology Measurement Instruments: from Lab to Field	Fakulti Pertanian, UPM	2024	Participant
3.	FAScinate: Open Minds, Spark Ideas	Akademi Sains Malaysia	2024	Participant
4.	The State of CRISPR and Gene Editing	GEN- Genetic Engineering & Biotechnology News	2024	Participant
5.	Qualitative Research & Data Analysis using NVIVO	Institut Pengajian Sains Sosial	2023	Participant
6.	Biotech Seminar Series	FBSB	2023	Speaker
7.	Course on Preparing Grant Proposals KTGS @Faculty	FBSB	2023	Participant
8.	IKP Research Seminar	Institut Kajian Peladangan (IKP)	2022	Participant
9.	Remoting Japan Internship	Institute of Advanced Technology, UPM and Pasona HR (M) Sdn. Bhd.	2021	Participant
10.	Workshop on Academic Writing and Publishing	ENAGO	2019	Participant
11.	Training on Bioreactor Operation	BBRC	2018	Speaker

12.	Biotech Talk Series	FBSB	2018	Speaker
13.	Plant Tissue Culture Workshop	FBSB	2017	Participant
14.	Bioplastic Forum in Conjunction with BIOMALAYSIA	Bioeconomy Corporation	2017	Participant

LEADERSHIP AND CONTRIBUTIONS

NO.	PROGRAM/ COMMITTEE	ORGANISER	YEAR	POSITION
1.	Program Coordinator for Master of Science in Biotechnology with Bioentrepreneurship	UPM	2025	Program Coordinator
2.	Coordinator for Graduate Employability & Entrepreneurship	UPM	2025	Coordinator
3.	Jawatankuasa Kerja Pembangunan Modal Latihan Transformasi Kecermelangan Kepemimpinan Akademik	UPM	2025	Committee
4.	Jawatankuasa Kerja Inovasi Pengajaran dan Pembelajaran (JKIPP)	FBSB	2025-2027	Committee
5.	Conference BIOTECH HORIZON 2024: Biotechnology Innovation for Sustainability	FBSB	2024	Scientific Committee
6.	Jawatankuasa Jaringan Industri dan Masyarakat & Pendanaan Peringkat Fakulti	FBSB	2024-2027	Committee
7.	Jawatankuasa Fakulti, Fakulti Bioteknologi dan Sains Biomolekul	FBSB	2024-2027	Committee
8.	Pecha Kucha Microbes	FBSB	2024	Judge
9.	Ahli Jawatankuasa Jaringan Industri dan Masyarakat (JINM) dan Alumni Peringkat Jabatan	JTB	2023-2025	Head of Committee
10.	Jawatankuasa Kurikulum Peringkat Jabatan	JTB	2023-2025	Committee
11.	Microbes Invention, Innovation and Ideation Challenge with the Sustainable Development Goals 2023 (MINIC-SDG2023)	FBSB	2023	Judge
12.	Jawatankuasa Penasihat Akademik dan Hadiah Peringkat Jabatan	JTB	2022-2025	Committee

13.	Panel Temuduga Biasiswa Yang di-Pertuan Agong	JPA	2022	Panel
14.	Pembangun Kursus Putra Massive Open Online Courses (PutraMOOC)	CADe	2022	Course Developer
15.	Workshop Data Analysis: Response Surface Methodology for Science Students	FBSB	2022-2023	Committee
16.	Jawatankuasa Program Siswazah Tanpa Tesis	FBSB	2017-2022	Secretary
17.	Asian Federation of Biotechnology Malaysia Chapter International Symposium 2022	AFOB	2022	Committee
18.	International Conference on Bioprocessing and Biomanufacturing 2022	UPM & TISTR	2022	Head Committee
19.	Biotech Talk Competition	International University of Malaya-Wales	2021	Judge
20.	Penyelidik Prinsipal Kumpulan Penyelidikan Biopemprosesan Dan Biopenghasilan	BBRC	2021-to date	Principal Researcher
21.	Hult Prize UPM 2021 Workshop	United Nations	2021	Judge
22.	Jawatankuasa Landskap Fakulti	FBSB	2020	Committee
23.	Jawatankuasa Laman Web	FBSB	2019-2022	Committee
24.	7th International Symposium on Applied Engineering and Sciences (SAES2019)	UPM & KYUTECH	2019	Committee & Judge
25.	3rd Bioprocessing and Biomanufacturing Symposium 2019 (BBS2019)	USM & UPM	2019	Committee
26.	Penyelaras Pembangunan Kursus Massive Open Online Courses (MOOCs) Malaysia	CADe	2018-2022	Coordinator
27.	Workshop on Biosynthesis of Nanoparticles for Biotechnology Application	FBSB	2018	Committee
28.	Bioprocess Magnetic Day	JTB	2017-2024	Committee (2018-2019, Director)
29.	D-DAY Exit Survey	JTB	2017-2024	Committee (2019-Director)
30.	Persatuan Pegawai Akademik	PPAUPM	2017-2024	Member

31.	International Conference on Bioscience and Technology 2020	TIKM	2017-2020	Committee
32.	Penyelidik Bersekutu Pusat Penyelidikan Biopemprosesan dan Biopenghasilan	BBRC	2017-2020	Associate Researcher
33.	Jawatankuasa e-Pembelajaran BIOTECH	FBSB	2017-2019	Committee
34.	Bioprocessing and Biomanufacturing Symposium 2017	UPM & USM	2017	Committee
35.	The 1st Microbiology Undergraduate Symposium Microbiology Undergraduate Symposium (MUSym)	JM	2017	Committee
36.	Program Postgraduate Open Day	UPM	2017	Committee
37.	Sumbangan Artikel ke Laman Web UPM	UPM	2017	Author
38.	Petugas Pesta Konvokesyen ke-41 UPM	UPM	2017	Committee
39.	Pelawat Latihan Industri	FBSB	2017-2024	Committee
40.	Biotech Colloquium	FBSB	2019-2024	Evaluator & Chairperson

INDUSTRY AND COMMUNITY RELATIONS

NO.	PROGRAM	ORGANISATION	YEAR	ROLE
INDUSTRIES				
1.	Research Collaboration In Producing Alternative Livestock Feed For National Sustainability And Food Security	NextPlus	2023	Consultant
2.	Collaboration with Asian Federation Of Biotechnology Malaysia Chapter International Symposium (AFOBMCIS) 2022	AFOB (Generated RM4100.30)	2023	Project Member
3.	Business Pitching	Malaysia Technology Development Corporation (MTDC)	2020-2024	Project Leader

		Malaysian Biotechnology Information Centre (MABIC)		
4.	Rice Transformation Project	National Institute of Agricultural Botany (NIAB), Cambridge	2022-2023	Researcher
5.	Agronomy and Proteomic Research	Rothamsted Research, Hertfordshire	2022-2023	Researcher
6.	Joint Lectures	Swinburne University of Technology Universitas Brawijaya	2024 2023	Educators
7.	Operational Process For Food Production	Ajinomoto (M) Berhad	2023 & 2019	Project Member
8.	Business Registration and Types of Businesses in Malaysia	Suruhanjaya Syarikat Malaysia (SSM)	2022 & 2019	Project Member
9.	Product Diversification and Marketing Strategies	Farm Fresh	2022	Project Leader
10.	START UP!: Likeness In Business	Nuuha Beauty	2022	Project Leader
11.	CEO@Faculty “Bio-innovation Towards Wealth and Value Creation for the Society”	Nextgreen Global Berhad	2021	Project Leader
12.	Bionexus Status: Criteria & Application Procedure	Bioeconomy Corporation	2023, 2021, 2019, 2017	Project Leader
13.	Start-up Funding	Cradle Fund	2021	Project Leader
14.	The Roles and Contribution of SME Bank in Supporting Local Entrepreneurs	SME BANK	2021, 2019	Project Leader
15.	Registration of Pharmaceutical Products in Malaysia	Bahagian Regulatori Farmasi Negara (NPRA)	2021	Project Member
16.	Introduction to Intellectual Property in Malaysia	MyIPO	2021	Project Leader
17.	The Role of MTDC and Investor Potential	MTDC	2019	Project Leader

18.	Training on Bioreactor Operation	Sabah Softwoods Berhad	2018	Project Member
19.	SCIENSATION 1310	Bioeconomy Corporation	2017	Co-partner
COMMUNITIES				
1.	CSR River Clean Up, Alor Lempah, Kuala Kubu Bharu	Sustainability Solutions	2024	Project Leader
2.	Community Resource for Wheat and Rice Transformation Project	National Institute of Agricultural Botany (NIAB), Cambridge	2022-2023	Project Leader
3.	CSR Food Box for Deepavali Celebrations	MYDIN & Petaling Jaya Parliament Office	2023	Project Leader
4.	International Coastal Clean-up, port Dickson	Ocean Conservancy & The Body Shop Malaysia	2023	Participant
5.	CSR Tree Planting, Composting and Climate Change	Free Tree Society Taman Tugu	2021-2019	Project Leader
6.	International STEM Olympiad ISTEMO	Persatuan Guru STEM Malaysia	2019-2020	Facilitator - student won silver medal
7.	GLOBAL I-LEAD STEM Camp	Persatuan Guru STEM Malaysia	2018	Facilitator
8.	Nature's Yield And Wonders of Art 2017 (NYAWA'17 : LIGHT)	UPM	2017	Exhibitor, Author
9.	Expedition to Gua Batu Maloi	Kelab Staf Biotech	2017	Participant
10.	Aktiviti Sekolah Angkat Jabatan Teknologi Bioproses Cooking Oil: From Kitchens to Cars	Sekolah Menengah Kebangsaan Jalan Empat	2017	Project Member
11.	Educational Trip and Laboratory Site Visit 9	Sri Ayesha Islamic School & BBRC	2017	Project Member

AWARDS

NO.	AWARD	AWARDING INSTITUTION	LEVEL	YEAR
1.	Pertandingan Amalan Terbaik Inovasi Pengajaran dan Pembelajaran – Tempat Pertama	Universiti Putra Malaysia	Universiti	2024
	Anugerah Perkhidmatan Cemerlang	Universiti Putra Malaysia	Universiti	2024, 2021, 2019, 2018
2.	International Putra InnoCreative Carnival in Teaching and Learning	Centre for Academic Development (CADE)	National	
	Gold Medal			2020
	Bronze Medal			2020
	Bronze Medal			2019
	Bronze Medal			2019
3.	Best InnoCreative in Alternative Assessment - Putra InnoCreative Awards	Centre for Academic Development (CADE)	National	2020
4.	Silver Award International STEM Olympiad ISTEMO	MoHE	National	2019
5.	Dana Keterlihatan dan Pengantarabangsaan Pejabat TNCPI - Visiting Scientist to University of Manchester, UK.	Universiti Putra Malaysia	University	2011
6.	Outstanding Achievement Award- The Best Final Year Project in Biosciences Programme	University of Manchester, UK	University	2011
7.	Biasiswa Yang di-Pertuan Agong	JPA	National	2011-2015
8.	Program Ijazah Luar Negara (PILN)	JPA	National	2006-2011

EXTERNAL EXAMINER/ ASSESSOR

NO.	ROLE	DETAILS	YEAR
1.	Internal Examiner Master of Science	Grema Aisha (Universiti Putra Malaysia) “Biosorption of Chromium from Waste Water using Sugarcane Bagasse and it's Optimisation using OFAT and RSM”	2025
2.	External Examiner Master of Science	Nur Nazifah Binti Saimi (International Islamic University Malaysia) “Anatomical Study and Transcriptomic Analysis on Root of Rice Exposed to Alternate and Continuous Drought Stress”	2024
3.	Expert Panel for Content Validity of Instruments in Student Academic Research	Mbv-Sarjana Pendidikan Teknik Dan Vokasional Fakulti Pendidikan Teknikal dan Vokasional, Universiti Tun Hussein Onn Malaysia	2024
4.	External Assessor	Diploma in Fashion Marketing and Diploma in Fashion Retail Management Raffles College of Higher Education	2022
5.	Assistant Chairman of the Thesis Examination Committee	Amirah Shafilla Binti Mohamad Kasim (Gs49393) “Size Separation of Uncoated and Polyethylene Glycol Coated Silver Nanoparticles using Density Gradient Centrifugation”	2021
		Liana Binti Noor Megashah (GS47569) “Development of Efficient Processing Method for the Production of Cellulose Nanofibrils from Oil Palm Biomass”	2021
		Nur Ain Syaquirah Binti Sopian (GS53209) “Differentiation of Lard from Other Animal Fats and Vegetable Oils Based on N-Alkane Profiles and Chemometrics Analysis”	2020
		Lau Hui Lane (GS30610) “Lipase Production by <i>Burkholderia cenocepacia</i> ST8 using Used Engine Oil as Substrate”	2020
		Normahfuzah Husna Samsuddin (GS35764) “Evaluation of Salicylic Acid as a Systemic Acquired Resistance Inducer for Enhancing Plant Defence Towards Papaya Dieback Disease”	2019

Nurul Aini Jamalullail (GS45951) “Development of Legume-based Non-Dairy Yogurt as Alternative Functional Foods”	2019
Boo Sok Yee (GS47665) “Gene Expression Study of Innate Immune Response of Chicken 28-4+ Intraepithelial Lymphocyte Natural Killer Cells to Very Virulent Infectious Bursal Disease Virus”	2019
Nurfarahin Bin Abdul Hamid (GS47079) “Development of Palm Fatty Acid Distillate-containing Medium for Biosurfactant Production of <i>Pseudomonas</i> sp. LM19	2019

ACADEMIC ADVISOR

NO.	NAME	MATRIC NO.	PROGRAMME
MOBILITY			
1.	Astruc Mleczko Clement	ES04370	SUP Biotech Paris, France
2.	Irtyafari Almira Haswara	ES03577	Bandung Institute of Technology, Indonesia
UNDERGRADUATES			
1.	Thanesh A/L Sangaran	212815	BSc. Biotechnology with Honours
2.	An-Nur Qkharishma Binti Hisham	212715	BSc. Biotechnology with Honours
3.	Nur Amyliena Farhan Binti Azman	208281	BSc. Biotechnology with Honours
4.	Siti Balqis Binti Abdul Razak	216944	BSc. Biotechnology with Honours
5.	Wong Meng Yi	212685	BSc. Biotechnology with Honours
6.	Pavithra A/P Raghupathy	211683	BSc. Biotechnology with Honours
7.	Muhammad Amirul Atiq Bin Mohd Azhar	215700	BSc. Biotechnology with Honours
8.	Kuhanesre A/P J Venkata Ramana	207437	BSc. Biotechnology with Honours
9.	Nurhidayah Balqis Binti Ahmad Soufi	223301	BSc. Biotechnology with Honours
10.	Vikasha A/P Thayaneethy	226052	BSc. Biotechnology with Honours

11.	Nur Dina Aisyah Binti Mohd Nor Ikhrum	SA00239	BSc. Biotechnology with Honours
12.	Soo Wai Zhen	226110	BSc. Biotechnology with Honours
13.	Shaanaav Daniel Shenbagan	200350	BSc. Biotechnology with Honours
14.	Nur Anis Afifah Mohd Elias	200551	BSc. Biotechnology with Honours
15.	Zahirudin Syafiq Bin Zainudin	204548	BSc. Biotechnology with Honours
16.	Nurin Naziha Binti Zulkefle	198423	BSc. (Hons) Biotechnology
17.	Farah Liyana Aziah Binti Hadzram	199163	BSc. (Hons) Biotechnology
18.	Nur Suhadah Binti Abdul Kahar	197461	BSc. (Hons) Biotechnology
19.	Zaty Halily Bt Binti Abd Rais	194253	BSc. (Hons) Biotechnology
20.	Siti Arifah Binti Mohd Turjah	193363	BSc. (Hons) Biotechnology
21.	Ahmad Hadri Aiman Bin Mohd Asri	192495	BSc. (Hons) Biotechnology

JOURNAL REVIEWER

NO.	JOURNAL	YEAR
1.	Agronomy	2024
2.	Crops	2024
3.	PeerJ	2024
4.	International Journal of Plant & Soil Science	2021-2022
5.	Malaysian Journal of Microbiology	2021-2022
6.	Malaysian Journal of Biochemistry & Molecular Biology	2021-2022
7.	Jurnal Teknologi	2021-2022
8.	Journal of Science and Technology	2018-2020

PROFESSIONAL MEMBERSHIP

NO.	ORGANISATION	YEAR	ROLE
1.	Malaysia Board of Technologists (MBOT)	2024 – to date	Graduate Technologist
2.	Asian Federation of Biotechnology (AFOB)	2018 - to date	Life Member
3.	Asian Phytopathological Society (ASPS)	2023 - to date	Life Member
4.	Malaysian Society for Biochemistry and Molecular Biology (MSBMB)	2017 – to date	Ordinary Member

INTERNATIONAL LINKAGES

NO.	ITEM	INSTITUTION	DETAILS	YEAR
1.	Honorary Staff (Sabbatical Leave)	Faculty of Biology, Medicine and Health, University of Manchester, UK National Institute of Agricultural Botany (NIAB), Cambridge Rothamsted Research, Hertfordshire	Improving the Nitrogen Use and the Stress Tolerance of Crops Rice Transformation Project	10/10/2022 - 09/07/2023
2.	Joint Lectures	Swinburne University of Technology Universitas Brawijaya, Indonesia	Business Pitching and STEM Discussion Entrepreneurship	2024 2023
3.	Research	Faculty of Biology, Medicine and Health, University of Manchester, UK	Plant Tolerance to Stress	14/12/2017 - 29/12/2017
4.	Visiting Scientist	Faculty of Biology, Medicine and Health, University of Manchester, UK	Plant Tolerance to Stress	14/12/2017 - 29/12/2017
5.	Visiting Scientist	Faculty of Biology, Medicine and Health, University of Manchester, UK	Enzymatic Activity of Plant Proteases	10/07/2017 - 14/07/2017

REFEREES

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