CURRICULUM VITAE

PERSONAL DETAILS			
FULL NAME	Noor Baity Saidi		
Citizenship Malaysian	**Race** Malay		**Gender** Female
Designation	Associate Professor	**Date of Birth**	03.02.1984

Department/Faculty	**E-mel**
Department of Cell and Molecular Biology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia (UPM), Serdang, 43400, Selangor. Tel: 03-97694548	norbaity@upm.edu.my

ACADEMIC QUALIFICATION			
Certificates/Qualification obtained	**Name of School/Institution**	**Year obtained**	**Areas of specialization**
Bachelor's degree	Universiti Putra Malaysia	2006	Biotechnology
PhD	The University of Edinburgh	2011	Molecular Plant Science

HONOURS AND AWARDS				
Name of awards	*Title*	*Award Authority*	*Award Level*	*Year*
Academic Awards	Academic Training Scheme for PhD	Ministry of Education (MoE)	National	2007
	Putra InnoCreative Carnival in Teaching and Learning (Silver Medal)	UPM	National	2018
	Best poster presentation in Microbiome for Agriculture Congress: Asia	Global Engage Ltd	International	2019
	Winner of Putra InnoCreative Award (Best InnoCreative Educator in Alternative	UPM	International	2020

	Assessment) in International Putra InnoCreative Carnival in Teaching and Learning 2020			
	International University Carnival On E-Learning (IUCEL) - Invention, Innovation & Design on e-Learning (IIDEL) Competition (Silver Medal)	UPM, MoE and MEIPTA	International	2022
	Vice Chancellor Fellowship Award for Excellent Educator (Pure Science Category)	UPM	University	2023
Non-Academic Awards	Excellent Staff Award	Faculty of Biotechnology and Biomolecular Sciences	Faculty	2011
	Excellent Service Award	UPM	University	2021
	SEARCA UC Young Researcher Grant Award	SEARCA	International	2023
	JSPS Invitational Fellowship for Research in Japan (Long-term)	JSPS	International	2024

PUBLICATION	
H- index (Scopus) 13	**Citation (Scopus)** 1273
Journal (Last 3 years)	1. Ang SH, Ong JX, Terhem R, Yusof MT, Wong MY, Arie T, Saidi NB (2025) Identification and gene expression analysis of mating type (MAT) 1-1-1 gene in Fusarium oxysporum f.sp. cubense Tropical Race 4. AsPac J. Mol. Biol. Biotechnol. 33: 107-114 2. Ong JX, Abd Murad NB, Mohd Rasli SRA, Zakaria MRS, Selvamani S, El-Enshasy HA, Zorilla MJ, Saidi NB. (2025) Black soldier fly frass and its derivatives as biofungicide to control Fusarium wilt in bananas. Chilean J Agricultural Res. 85: 469-479 3. Anggrayni D, Purnama I, Saidi NB, Novianti F, Baharum NA, Mutamima A, Razali NAS, Boukherroub R. (2025) Antifungal and phytotoxicity of wood vinegar from biomass waste against Fusarium oxysporum f. sp. cubense TR4 infecting banana plants. Discover Food. 5: 98 4. Shah WANWT, Abd Murad NB, Ong JX, Ang SH, Laili N, Saidi NB. (2025) Antifungal potential of Lactiplantibacillus plantarum AM2 against the banana pathogen Fusarium oxysporum f. sp. cubense Tropical Race 4. J Agri Sci Tech. 27: 1-10 5. Lau SE, Lim LWT, Hamdan MF, Chan C, Saidi NB, Abdullah JO, Tan BC. (2025) Enhancing Plant Resilience to Abiotic Stress: The Power of Biostimulants. Phyton-Intl J Exp Bot. 94: 1-31 6. Jamal SN, Lamasudin DU, Muhialdin BJ, Saidi NB, Lai KS, Yusof MT (2024) Optimization of Enzymatic Hydrolysis Conditions for Antimicrobial Activity Against Pantoea Spp. Causing Rice Leaf Blight. MJS. 43: 1-12. 7. Ahmad Zuhairi AM, Hashim AM, Khairil Mokhtar NF, Saidi NB, Abu Bakar MF, Singaram N. (2024) Complete genome sequences of five bacteria

isolated from rice plants in a paddy field in Sekinchan, Selangor, Malaysia. Microbiology Resource Announcements. 13: e0054224
8. Anuar, M.K., Hashim AM, Sundram S, Rahman ASR, Ho CL, Wong MY, Saidi NB, Wasoh H, Mohd Yusof T. (2025) Characterization of the Synergistic Effect of Fungal Isolates in Suppressing Ganoderma boninense and Enhancing Oil Palm Growth. J Basic Microbiol. 65: e2400312
9. Han M, Kasim S, Yang Z, Deng X, Saidi NB, Uddin MK, Mohd Shuib E. (2024) Influence of Euphorbia hirta Extract on the Growth, Photosynthesis and Antioxidant Defense System in Maize under Drought Stress. Russian J Plant Physiol. 71: 194
10. Han M, Kasim S, Yang Z, Deng X, Saidi NB, Uddin MK, Mohd Shuib E. (2024) Plant Extracts as Biostimulant Agents: A Promising Strategy for Managing Environmental Stress in Sustainable Agriculture. Phyton. 93: 2149-2166
11. Osman NY, Ahmad Hamdani MS, Oslan SN, Zulperi DM, Mohd Hashim A, Saidi NB. (2024) Bacteria as potential biocontrol agents for managing purple witchweed (Striga hermonthica) in grain sorghum. Weed Sci. 72: 646–653
12. Han, M., Kasim, S., Yang, Z., Deng, X., Uddin, M.K., Saidi, N.B., Mohd Shuib, E. (2024) Application of Polygonum minus Extract in Enhancing Drought Tolerance in Maize by Regulating Osmotic and Antioxidant System. Phyton-Intl J Exp Bot., 93: 213-226
13. Ngalimat, M.S., Mohd Hata, E., Zulperi, D., Ismail, S.I., Ismail, M.R., Zainudin, N.A.I., Saidi, N.B., Yusof, M.T. (2023) Induction of systemic resistance in rice plants against Burkholderia glumae infection by bioformulation of Streptomyces spp. under greenhouse conditions. Biological Cont. 184: 105286
14. Ngalimat, M.S., Mohd Hata, E., Zulperi, D., Ismail, S.I., Ismail, M.R., Zainudin, N.A.I., Saidi, N.B., Yusof, M.T. (2023) A laudable strategy to manage bacterial panicle blight disease of rice using biocontrol agents. J. Basic Microb. 63: 1180-1195
15. Lau, S.E., Pua, T.L., Saidi, N.B., Abdullah, J.O., Lamasudin, D.U., Tan, B.C. (2023) Combined Proteomics and Physiological Analyses Reveal Drought and Recovery Response Mechanisms in Banana Leaves. J. Plant Growth Reg. 42: 7624–7648
16. Paramalingam, P., Baharum, N.A., Abdullah, J.O., Hong, J.K., Saidi, N.B. (2023) Antifungal Potential of Melaleuca alternifolia against Fungal Pathogen Fusarium oxysporum f. sp. cubense Tropical Race 4. Molecules. 28: 4456.
17. Kamarudin, M.H., Ismail, Z.H., Saidi, N.B., Hanada, K. (2023) An augmented attention-based lightweight CNN model for plant water stress detection. Applied Intell. 53: 20828–20843
18. Anuar, M.K., Hashim, A.M., Ho, C.L., Wong, M.Y., Sundram, S., Saidi, N.B., Yusof, M.T. (2023) Synergism: biocontrol agents and biostimulants in reducing abiotic and biotic stresses in crop. World J Microbiol Biotechnol 39: 123.

	19. Jamil, F.N., Hashim, A.M., Yusof, M.T., Saidi, N.B. (2023) Association of soil fungal community composition with incidence of Fusarium wilt of banana in Malaysia. Mycologia. 115: 178-186. 20. Osman, N.Y.O., Hamdani, M.S.H., Oslan, S.N., Zulperi, D.M., Saidi, N.B. (2023) Biological Control Strategies of Purple Witchweed, Striga hermonthica: A Review. PJTAS. 46: 177-195 21. Mohan, D., Namasivayam, P., Saidi, N.B., Ho, C.L. (2023) Expression of genes related to hydrogen peroxide generation and phytohormones in Ganoderma-inoculated oil palm seedlings pretreated with phytohormones and their inhibitors. Plant Gene. 33: 100405 22. Saidi, N.B., Obaidi, J.R.A. Che Fisol, A.F. (2023). Rigidoporus microporus and the white root rot disease of rubber. Forest Pathology. 00: e12794. 23. Jamal, S.N., Muhialdin, B.J., Saidi, N.B., Lai, K.S. Yusof, M.T., Lamasudin, D.U. (2022) The effect of lactic acid fermentation of Bactronophorus thoracites on antimicrobial activity against rice pathogens. Malaysian J Microbiol. 6: 592-601 24. Lutfi, AI, Kritsanayanyong, N, Rahim, SND, Saidi, NB, Abdullah, MP, Baharum, NA. (2022) Functional prediction of pathogenesis-related 10 in Musa acuminata DH Pahang (MaPR-10) for targeted banana adaptation against stresses. MJBMB, 2: 1-11 25. Ngalimat, M.S., Mohd Hata, E., Zulperi, D. Ismail, S.I., Ismail, M.R., Mohd Zainudin, N.A.I., Saidi, N.B., Yusof, M.T. (2022) Streptomyces-mediated growth enhancement and Bacterial Panicle Blight disease suppression in rice plants under greenhouse conditions. J Biotech. 359: 148-160 26. Jaini, M.F.M., Roslan, N.F., Yusof, M.T., Saidi, N.B., Ramli, N., Zainudin, N.A.I.M., Hashim, A.M. (2022) Investigating the Potential of Endophytic Lactic Acid Bacteria Isolated from Papaya Seeds as Plant Growth Promoter and Antifungal Agent. Pertanika JTAS. 45(1): 207–233 27. Rozihawati, Z, Wan-Muhammad-Azrul, WA, Saidi, NB, Sheriza, MR, Hazandy, AH, Mohd-Farid, A, Zaiton, S. (2022) Formulation of alternative media for fungal growth and its application as agarwood-inducing agent in Aquilaria trees. J. Tropic. Forest Sci. 34: 127-132 28. Mohan, D., Namasivayam, P., Saidi, N.B., Ho, C.-L. (2022) Temporal expression of defense-related genes in Ganoderma-infected oil palm roots. Trees. https://doi.org/10.1007/s00468-022-02269-1 29. Jamil, F.N., Hashim, A.M., Yusof, M.T., Saidi, N.B. (2022) Analysis of soil bacterial communities and physicochemical properties associated with Fusarium wilt disease of banana in Malaysia. Sci. Reports. 12(1): 999 30. Wan Abdullah, W.M.A.N., Saidi, N.B., Yusof, M.T., ...Ong-Abdullah, J., Lai, K.-S. (2022) Vacuolar Processing Enzymes Modulating Susceptibility Response to Fusarium oxysporum f. sp. cubense Tropical Race 4 Infections in Banana. Front. Plant Sci. 12: 769855 31. Che Fisol, A.F., Saidi, N.B., Al-Obaidi, J.R., Lamasudin, D.U., Atan, S. Razali, N., Sajari, R., Rahmad, N., Hussin, S.N.I.S., M.R., Nurul Hafiza (2022) Differential analysis of mycelial proteins and metabolites from

	Rigidoporus microporus during in vitro interaction with Hevea brasiliensis. Microb Ecol. https://doi.org/10.1007/s00248-021-01757-0
Book chapter	1. Jamil FN, Tang CN, **Saidi NB**, Lai KS, Baharum NA (2019) Fusarium Wilt in Banana: Epidemics and Management Strategies 'in' Baimey HB, Hamamouch N, Kolombia YA, Horticultural Crops, London: IntechOpen, 117-142 2. **Saidi, N.B**., Baharum, N.A.B., Lai, K.S., Paramalingam, P., Saad, W.Z. (2019) Implementing community-based learning in plant sciences. In Luan, W.S. (Ed.) Scholarship of Teaching and Learning @UPM. (pp. 42-49). Universiti Putra Malaysia, Selangor: UPM Press. 3. Ong, J.X., Suhaimi, N.S.M., **Saidi, N.B.** (2024) The Microbiome of Banana and Its Role in Managing Fusarium Wilt Disease. In: Wong, MY. (eds) Advances in Tropical Crop Protection. Springer, Cham. Pp 105-120
Editorial	1. Al-Obaidi, J. R., **Saidi, N. B.**, & Al-Saffar, A. Z. (Eds.). (2025). Fungal macromolecule applications in life sciences: Biological activity and medical, industrial, and agricultural applications (1st ed.). Academic Press.

RESEARCH PROJECT					
No.	**Source of fund**	**Title**	**Role**	**Year**	**Status**
1.	UPM (RUGS)	Investigation of the role of nitric oxide in controlling disease resistance to necrotrophic pathogen, Fusarium oxysporum f. sp. cubense	Project Leader	2011-2013	Completed
2.	Ministry of Education (ERGS)	Discovering the Potential of Nitric Oxide Treatment on Erlotinib-resistant Non-small Cell Lung Cancer Cells (NSCLC)	Project Leader	2013-2016	Completed
3.	MoE (FRGS)	Regulation of protein S-nitrosylation for effective control of Fusarium wilt in banana	Project leader	2013-2015	Completed
4.	MoE (FRGS)	The effects of earthworm on cabbage secondary defense against the diamondback moth	Member	2013-2016	Completed
5.	UPM (PUTRA-IPM)	Isolation and identification of antagonistic lactic acid bacteria against causative agent of papaya dieback disease	Member	2014-2016	Completed
6.	MoE (FRGS)	Regulation of monolignol transportation in oil palm infected with Ganoderma boninense	Member	2014-2016	Completed
7.	MoE (FRGS)	The role of redox signaling in basal resistance against Fusarium oxysporum f. sp. Cubense Tropical race 4 for effective control of Fusarium wilt in Berangan banana	Project Leader	2015-2017	Completed
8.	UPM (PUTRA-IPS)	Identification of oil palm root proteins infected with pathogenic *Ganoderma boninense* and non-pathogenic *Ganoderma tornatum*	Project Leader	2016-2017	Completed

9.	MoE (FRGS)	Molecular insights into the defense mechanism of nucleotide binding site-leucine rich repeat (NBS-LRR)-encoding resistance (R) genes in papaya towards papaya dieback disease	Member	2016-2018	Completed
10.	UPM (PUTRA-IPS)	Proteomic identification of S-nitrosylated proteins in Berangan banana*:* Insights into the regulation of Fusarium wilt by nitric oxide	Project Leader	2017-2018	Completed
11.	UPM (PUTRA)	Banana soil core microbiome analysis for effective biological control of Fusarium wilt disease	Project Leader	2017-2019	Completed
12.	UPM (PUTRA-IPS)	Genetic Diversity of Fusarium oxysporum f. sp. Cubense tropical race 4, Causal Agent of Banana Fusarium Wilt in Malaysia	Member	2017-2019	Completed
13.	UPM (PUTRA)	Development of Secreted in Xylem (SIX) effector genes as genetic markers to reveal genetic diversity and virulence of banana Fusarium wilt Malaysia	Member	2017-2019	Completed
14.	MoE (FRGS)	Integration of nitric oxide and abscisic acid in the flowering of drought-stressed rice plants	Member	2017-2019	Completed
15.	UPM (PUTRA-IPS)	Characterization of nucleotide binding site-leucine rich repeat (NBS-LRR)- encoding resistance (R) genes in papaya related to dieback disease	Project Leader	2018-2019	Completed
16.	UPM (PUTRA-IPS)	Characterization of Berangan banana NADPH oxidase genes and their expression associated with *Fusarium oxysporum* f.sp *cubense* Tropical Race 4 infection	Project Leader	2018-2019	Completed
17.	UPM (GIPP)	Community-Based Learning Design in Plant Science: Elevating Student's Interest Through Experiential Learning	Project Leader	2018-2019	Completed
18.	Malaysian Rubber Board	Comparative proteomic study between different Rigidoporus microporous isolates before and after the interaction with rubber tree Hevea brasiliensis: Proteomic approaches to identify the fungus virulence factors.	Member	2018-2019	Completed
19.	UPM (PUTRA-IPS)	Design of a miniature chitinase as bio-control agent against Fusarium oxysporum.	Member	2018-2021	Completed
20.	MoE (FRGS)	The role of mating-type genes in pathogenicity of Fusarium oxysporum f. sp. cubense Tropical Race 4 to banana	Project Leader	2019-2023	Completed

21.	UPM (PUTRA-IPM)	Functional Characterization of Pathogenesis-related 10 (PR-10) proteins from local commercial banana, Musa acuminata cv. 'Berangan'	Member	2019-2022	Completed
22.	MoE (FRGS)	Elucidating the role of small open reading frames and small coding genes in response to drought stress using gene overexpression system in Oryza sativa	Member	2019-2022	Completed
23.	MoE (FGRS)	Antimicrobial peptides from Weissella cibaria and Lactococcus lactis consortium, and their mechanistic actions for controlling multi plant diseases	Member	2020-2024	Completed
24.	Nutrition Technology Sdn Bhd	Exploring Black Soldier Fly Frass Products as Organic Fertilizer and Biofungicide for Improved Growth Performance of Banana and Tolerance against Fusarium wilt under Greenhouse conditions	Project Leader	2022-2023	Completed
25.	Australian Centre for International Agricultural Research (ACIAR)	An integrated management response to the spread of Fusarium wilt of banana in Southeast Asia (HORT 2018/192 – Malaysia	Project Leader	2022-2024	Completed
26.	UPM (UPM-Kyutech Matching Grant)	Identification of Plant Hormone-like Peptides Inducing Immune Responses in Rice for Sustainable Control of Rice Diseases	Project Leader	2022-2024	Completed
27.	UPM (Putra-IPS	Discovering the genetic basis of bioherbicidal activity of Streptomyces morookaensis against parasitic weed *Striga hermonthica* via dual transcriptomic analysis	Project Leader	2022-2024	Completed
28.	SEARCA	The potential of black soldier fly (*Hermentia illucens*) frass to suppress Fusarium wilt in bananas under greenhouse conditions.	Project leader	2023-2024	Completed
29.	UPM (Putra-IPS)	Elucidating mechanistic action of bacterial Synthetic Community (SynCom) for leaf blight disease suppression in rice using metatranscriptomics	Member	2023-2025	On-going
30.	UPM (Putra)	Investigating the role of Calcineurin B-like protein (CBL)-interacting protein kinases (CIPKs) in banana via CRISPR-Cas knock-out and over-expression study for improved tolerance against Fusarium wilt disease.	Member	2024-2027	On-going

SUPERVISION							
On-going student				Graduated student			
Main		Co-supervisor		Main		Co-supervisor	
Master	PhD	Master	PhD	Master	PhD	Master	PhD
4	1	1	2	8	1	12	8

CONFERENCE PRESENTED (ORAL) (LAST 5 YEARS)		
Conference title	**Place and date**	**Remarks**
Joint Academic Microbiology Seminars (JAMS)	Eatropica, Kuala Lumpur 20 Feb **2020**	-
Asian Short Course on Agribiotechnology, Biotechnology Regulation and Communication (ASCA). Country Presentations: Status of Biotechnology	Online 23-26 Novemver **2020**	Invited Speaker for Country Presentations: Status of Biotechnology in Malaysia
International Symposium on Applied Engineering and Sciences (SAES) 2020	Online 12-19 December **2020**	-
Malaysia National Banana Congress 2021	Online 3-6 September **2021**	Invited Speaker
Asian Symposium on Medicinal Plants and Spices XVII	Online 18-19 August **2021**	-
Kyutech Mini Symposium	Kyutech, Japan 28 September **2022**	Invited talk as Visiting researcher
Seminar Memperkasakan Industri Benih Negara (*Empowering National Seed Industry Seminar*)	Pacific Regency Hotel Suites, Kuala Lumpur 11, 12 October **2022**	Invited Speaker
3rd Microbiome for Agriculture Congress Asia	Double Tree by Hilton, Kuala Lumpur 15, 16 November **2022**	Invited Speaker
Joint International Seminar and Congress SEAPPRO-ISSAAS 2022	IPB University, Bogor, Indonesia 3,4 November **2022**	-
35th Symposium of Malaysian Society for Microbiology	Pullman Hotel, Bangsar, Kuala Lumpur 1,2 December **2022**	Plenary Speaker
Food Security Congress Asia - Forum on Agriculture Bio Security: Planning, Control & Regulation	Raffles, Jakarta, Indonesia 23, 24 May **2023**	Panelist
Research Center for Applied Microbiology Lecture Series, BRIN	Online seminar 18 Dec **2023**	Guest Lecture
Musa Mini Symposium 2024	Online seminar 13 August **2024**	Invited Speaker

Malaysia-Japan Visionary Conference (MJVC 2024)	The University of Tokyo, Japan 14-16 September **2024**	-
ISSAAS-JSTA Congress 2024	Tokyo University of Agriculture, Japan 9-11 November **2024**	-
The 12th International Symposium on Applied Engineering and Sciences (SAES2024)	Kyutech, Fukuoka, Japan 14-15 November **2024**	Invited Speaker for Organized Session
Guest Lecture Biology 2025	UIN Sunan Kalijaga, Yogyakarta, Indonesia 19 May **2025**	Invited Speaker
ACIAR HORT2018/192 End-of-Project Review	Kimaya Sudirman by Harris, Yogyakarta, Indonesia 19-23 May **2025**	Country representative for Malaysia
8th International Conference on Molecular Biology and Biotechnology 2025 (ICMBB2025)	Universiti Teknologi MARA (UiTM), Sungai Buloh Campus, Selangor 25-26 June **2025**	Invited Speaker

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