

CURRICULUM VITAE		
1	NAME	NURUL IZZATI BINTI OSMAN
2	ACADEMIC POSITION	SENIOR LECTURER
3	STATUS OF APPOINTMENT	PERMANENT
4	CITIZENSHIP	MALAYSIAN
5	EDUCATION	<ul style="list-style-type: none"> • PhD Science (in Plant Biotechnology), UiTM • Master of Science (Research), UiTM • Bachelor of Pharmacy (Hons), International Islamic University Malaysia
6	WORKING EXPERIENCE	<ul style="list-style-type: none"> • Senior Lecturer, Faculty of Pharmacy, UiTM Puncak Alam, September 2019 – present. • Research Officer, Faculty of Plantation and Agrothechnology UiTM, 2019.
7	CURRENT ACADEMIC RESPONSIBILITIES	<ul style="list-style-type: none"> • PHC614: Pharmacognosy (Lecture, Tutorial & Practical) • PHC414: Fundamental of Pharmaceutical Chemistry (Tutorial & Practical) • PHC610 & PHC632: Research I & II (Supervision) • PHC563: Pharmaceutical Analysis (Lecture, Tutorial & Practical) • PHC464: Pharmaceutical Organic Chemistry (Tutorial & Practical)
8	RESEARCH INTERESTS/ PROJECTS	<ul style="list-style-type: none"> • Micropropagation of medicinal plant species • Crop production and improvement through plant biotechnology • Secondary metabolites study and biological activities of medicinal plant species • Climate change impact on plant adaptability • Application of green chemistry for sustainability

9	PUBLICATIONS	<p>Journal article:</p> <ul style="list-style-type: none"> • Osman NI & Awal A. Plant tissue culture-mediated biotechnological approaches in <i>Lycium barbarum</i> L. (red goji or wolfberry). Horticulture, Environment and Biotechnology. 2023. • Supian, FNA & Osman NI. Phytochemical and pharmacological activities of natural dye plant, <i>Lawsonia inermis</i> L. (Henna). Journal of Young Pharmacist. 2023; 15(2): 201-211. • Baharudin NF & Osman NI. Plant development, stress responses, and secondary metabolism under ethylene regulation. Plant Stress. 2023. https://doi.org/10.1016/j.stress.2023.100146 • Osman NI, Sidik NJ & Awal A. Comparative callogenesis assessment in leaf and endosperm explants of <i>Barringtonia racemosa</i> L. ASM Science Journal, 2021: 16, 258. • Mohd Zawawi SNA, Osman NI, Abdul Wahab I. Black garlic (<i>Allium sativum</i> L.) in complementary medicine: A concise phytochemical and pharmacological review. Journal of Complementary Medicine Research. 2021:12(2): 220-226. • Mohd Zawawi SNA, Osman NI, Abdul Wahab I & Mohsin HF. Comparative phytochemical profiling of garlics (<i>Allium sativum</i> L.) and Onion (<i>Alium cepa</i> L.). Journal of Pharmaceutical Research International. 2021:3: 7-17. • Osman NI, Sidik NJ & Awal A. Efficient enhancement of gallic acid accumulation in cell suspension culture of <i>Barringtonia racemosa</i> L. by elicitation. Plant Cell Tissue and Organ Culture, 2018;135(2):203-12. • Osman NI, Sidik NJ & Awal A. Establishment of cell suspension culture for secondary metabolite study in <i>Barringtonia racemosa</i> L. Journal of Engineering and Applied Sciences. 2018;13 (SI 3):3119-24. • Adam NAM, Sidik NJ, Osman NI, Rezali NI & Saleh A. Effects of different culture system for micropropagation of <i>Melastoma decemfidum</i>. Malaysian Journal of Biochemistry and Molecular Biology. 2018; 21(2):34-37. • Osman NI, Sidik NJ & Awal A. Optimization of sucrose concentration and light treatment in cell suspension culture establishment of <i>Barringtonia racemosa</i> L. Indian Journal of Science and Technology. 2017;10(38): 1-11. • Osman NI, Sidik NJ & Awal A. Ethnobotanical profiles and phytochemical constituents of <i>Barringtonia racemosa</i> L. for potential scrutiny of bioactive compounds through plant biotechnology. Journal of Natural Remedies. 2017;17(2):57-68.
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- **Osman NI**, Sidik NJ, Awal A, Adam NAM & Rezali NI. *In vitro* xanthine oxidase (XO) and albumin denaturation inhibition assay of *Barringtonia racemosa* L. and total phenolic content analysis for potential anti-inflammatory use in gouty arthritis. *Journal of Intercultural Ethnopharmacology*. 2016;5(4):343-9.
- **Osman NI**, Sidik NJ & Awal A. Effects of variations in culture media and hormonal treatments upon callus induction potential in endosperm explant of *Barringtonia racemosa* L. *Asian Pacific Journal of Tropical Biomedicine*. 2016;6(2):143-7.
- Adam NAM, Sidik NJ, **Osman NI** & Razak WRWA. *In vitro* regeneration and phytochemical profile of medicinal plant *Melastoma decemfidum*. *International Journal of Pharmaceutical Sciences Review and Research*. 2016;37(1):36-41.
- Rezali NI, Sidik NJ, Saleh A, **Osman NI** & Adam NAM. The effects of different strength of MS media in solid and liquid media on *in vitro* growth of *Typhonium flagelliforme*. *Asian Pacific Journal of Tropical Biomedicine*. 2016;7(2):151-156.
- **Osman NI**, Sidik NJ & Awal A. Pharmacological activities of *Barringtonia racemosa* (Putat), a tropical medicinal plant species. *Journal of Pharmaceutical Sciences and Research*. 2015;7(4):185-188.
- **Osman NI**, Awal A, Sidik NJ & Abdullah S. Callus induction and somatic embryogenesis from leaf and nodal explants of *Lycium barbarum* (Goji). *Biotechnology*. 2013; 12(1):36-45.
- **Osman NI**, Awal A, Sidik NJ & Abdullah S. *In vitro* regeneration and antioxidant properties of *Lycium barbarum* L. (Goji). *Jurnal Teknologi (Special Edition)* 2013; 62(2): 35-38.

Conference/ Seminar:

- **Osman NI**, Adam NAM, Rezali NI, Sidik NJ, Awal A. Non-destructive measuring device for rapid cell growth analysis in suspension culture. *Lancet Countdown: Tracking Progress on Health and Climate Change*. 2019, December 12. UiTM Puncak Alam, Selangor MALAYSIA.
- Adam NAM, Sidik NJS, Rezali NI & **Osman NI**. Xanthine oxidase inhibitory activity and total phenolic content of *in vitro* plantlets of *Melastoma decemfidum*. *International Conference on Herbal Science Technology and Medicine HERBSTEM*; 2016, 29 Nov-1 Dec; Krabi THAILAND.
- Sidik NJ, Rahim RA & **Osman NI**. Phytocultures and phytochemical studies of *Gynura procumbens*, an anti-diabetic phytomedicine. 8th Asian Network of Research

		<p>on Antidiabetic Plants International Seminar (ANRAP 2015), Shah Alam, MALAYSIA.</p> <ul style="list-style-type: none"> • Osman NI, Sidik NJ & Awal A. Callus induction in <i>Barringtonia racemosa</i> L. as a starting point of <i>in vitro</i> phytochemical compound production. 2nd International Conference of Traditional and Complementary Medicine on Health (ICTCMH). Taipei, TAIWAN: JTCM, 2015. • Adam NAM, Nordin MK, Rezali NI, Sidik NJ & Osman NI. Direct and indirect regeneration of <i>Melastoma decemfidum</i> from nodal explants. Sustainable Agriculture, Food and Energy Conference (SAFE); 2019, 18 Oct – 21 Dec; Phuket THAILAND. • Osman NI, Sidik NJ & Awal A. Establishment of cell suspension culture for secondary metabolite study in <i>Barringtonia racemosa</i> L. International Conference on Herbal Science Technology and Medicine HERBSTEM; 2016,29 Nov – 1 Dec; Krabi, THAILAND.
10	RESEARCH GRANTS	<ul style="list-style-type: none"> • Geran Penyelidikan Pembangunan Kerjaya, GPPK UiTM [2020-2022]. Micropropagation utilizing plant bioreactor technology for local breeding of <i>Lycium barbarum</i> L. (Goji). – Principal Investigator • Geran Penyelidikan Khas UiTM [2021-2023]. Impact of global warming through thermal stress simulation on clonal plantlets of <i>Ananas comosus</i> L. (Pineapple) . – Principal Investigator • Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education [2021-2024]. Enhancement of quality planting materials of <i>Phyllostachys edulis</i> bamboo species in digital automation bioreactor. – Project member
11	AWARDS	<ul style="list-style-type: none"> • Vice Chancellor Quality Award (AKNC), 2022. Alumni, Community and Volunteerism focus area. Writer of Leadership Criteria. • Anugerah Perkhidmatan Cemerlang (Excellent Service Award) 2021. • Sijil Penghargaan Penerbitan (Publication Appreciation Certificate). Hari Anugerah Kualiti Fakulti Farmasi 2021 • Gold award. Pharmacognosy. MOOC E-Condev (The Virtual International e-Content Development Competition) 2021 (teaching team member) • Silver medal. C-Culture Savvy Trestle. International Exposition on Syariah Compliant Idea, Invention, Innovation and Design, ISCIID 2021 • Postgraduate Publication Award, Faculty of Applied Sciences, UiTM Shah Alam, 2018.

		<ul style="list-style-type: none"> • Bronze medal, The Development of Cell Culture Growth Measurement Device for Cell Suspension Culture Studies. Invention, Innovation and Design Exposition, IIDEX 2016. • Gold medal, <i>In Vitro</i> Propagation of Goji: A New Commodity for Agriculture. International Exposition on Syariah Compliant Idea, Invention, Innovation and Design, ISCIID 2014.
12	INVOLVEMENT IN PROFESSIONAL ORGANISATIONS	<ul style="list-style-type: none"> • Member, Malaysian Society of Plant Physiology (MSPP), 2019-present • Member, Malaysian Pharmacist Society (MPS), 2019-present
13	PARTICIPATION IN CONTINUING EDUCATION	<p><u>Program/Seminar/Service</u></p> <ul style="list-style-type: none"> • Lecturer of Analytical Chemistry, Teaching Collaboration Program with Universitas Ubudiyah Indonesia (UII), September – November, 2021. • Panelist. UiTM Council of Professors Webinar Series 2021. Key to Excellence Mentor-Mentee Performance, July 2021. • Panelist. Inspirational Forum for PhD Students, Faculty of Plantation and Agrotechnology, UiTM Shah Alam, November 2018. <p><u>Conferences:</u></p> <ul style="list-style-type: none"> • Presenter. International Research Network Initiative 2020. Online Platform (Zoom). • Presenter. Sustainable Agriculture, Food and Energy Conference (SAFE), 2019, Phuket, THAILAND. • Presenter. Conference on Science and Social Research (CSSR), 2017, Malacca, MALAYSIA. • Participant. 8th International Conference on Biotechnology and Food Science (ICBFS), 2017. Hanyang University, SOUTH KOREA. • Presenter. International Conference on Herbal Science Technology and Medicine (HERBSTEM) 2016, Krabi, THAILAND. • Participant. International Conference on Herbal Science Technology and Medicine (HERBSTEM) 2016, Krabi, THAILAND. • Presenter. 8th Asian Network of Research on Antidiabetic Plants International Seminar (ANRAP) 2015, Shah Alam, MALAYSIA. • Presenter. 2nd International Conference of Traditional and Complementary Medicine on Health (ICTCMH) 2015, Taipei, TAIWAN.

		<p><u>Courses:</u></p> <ul style="list-style-type: none"> • Participant. A.D.A.B: The Essence of Teaching. 29-31 May 2023. ILD Bandar Enstek, Negeri Sembilan. Malaysia. • Participant. Identity and Grit Development Program (Building Esprit De Corps Among Academic Leaders). 2022. UiTM Kampus Dungun, Terengganu, Malaysia. • Participant. Hybrid Workshop on Applications of NMR Spectroscopy. 2022. Faculty of Pharmacy UiTM. Malaysia • Participant. Quality in Higher Education. 2021. ILD UiTM Malaysia. • Participant, International Symposium of Native Plant Species in Reproductive Physiology, Molecular Biology & Biocomposite Applications: A Symposium Session with Kastamonu University Turkey, 2017, Shah Alam, Malaysia. • Participant, <i>In Situ</i> Transmission Electron Microscope (TEM) Facilities for Fundamental Research, Institute of Science (IOS), 2016, Shah Alam, Malaysia. • Participant, Application of Fluorescence Microscopy in Biological Research, Department of Biology, Faculty of Applied Sciences, 2015, Shah Alam, Malaysia.
14	COMMUNITY SERVICES	<ul style="list-style-type: none"> • Volunteer & Member, WWF (World Wide Fund For Nature, formerly known as World Wildlife Fund) Malaysia, 2023. • Lifetime Volunteer, Muslim Volunteer Malaysia MVM, 2019-present. • Volunteer, Bantuan Musim Sejuk 7.0, Syria Care Projects, Syria Care Malaysia, 2019. • Volunteer Kempen Ramadhan Al-Khair, Syria Care Malaysia, 2016.