



## DR. NURDIANAH HARIF FADZILAH

PKTAAB RESEARCH OFFICER PROFILE



### RESEARCH PROFILE

- Scopus ID : 57120109900
- Researcher ID: GWZ-2037-2022
- ORCID : 0000-0002-2318-9649
- Google Scholar ID : ZHRdspEAAAAJ



### EXPERTISE

- Molecular Biology
- Epigenetics
- Natural Product



### RESEARCH INTEREST

- Natural Product-Based Therapeutics
- DNA Damage Response
- Epigenetic Regulation



### SKILLS

- Cell Culture/Cytotoxicity Analysis
- DNA Damage/Genotoxicity Analysis
- DNA Methylation/Epigenetic Analysis



### RESEARCH GRANT

1. USM STGQ. Antiproliferative Activity of Virgin Coconut Oil in Hepatocellular Carcinoma Cell Line and Its Effect on DNA Damage Prevention (2023–2026). Principal Investigator.
2. Industrial Grant. Smart STEM Kits Empowering Learning: Advancing Experiential Learning through Innovation and Research (2025–2026). Co-researcher.
3. Academic Research Grant. Fostering Global Students Enrolment: Advancing Research Module Accreditation Through Stakeholder Engagement and Strategic Roadmap (2024–2025). Co-researcher.
4. Community Grant. An Impactful Community Project to Empower and Uplift B40 Community in Penang (2020–2022). Co-researcher.



### QUALIFICATION

**PhD (Molecular/Cell Biology)**

Universiti Sains Malaysia (2022)

**MSc (Transfusion Science)**

Universiti Sains Malaysia (2010)

**BSc (Biotechnology)**

International Islamic University Malaysia (2007)



### CONTACT



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### TOP 10 RESEARCH PUBLICATIONS

1. **Fadzilah NH**, Zain SND, Omar WA. The effect of *phyllanthus debilis* methanolic extract on miR-125a-5p and miR-320a expression in HT-29 cell line. *Asia-Pacific Journal of Molecular Biology and Biotechnology*. 2025;33(3):40-45.
2. **Fadzilah NH**, Hisham AQ, Abd Kadir E. Cell Culture Techniques: A Standard Operating Procedure. *Protocols.io*. 2025.
3. Seyam S, Alallam B, **Fadzilah NH**, Abd Kadir E. Advances in paclitaxel nanoformulations: A systematic review of in vivo therapeutic efficacy and safety enhancements. *Journal of Controlled Release*. 2025;114036.
4. **Fadzilah NH**, Omar WA. Unlocking the Bioactive Secrets of *G. thoracica* Stingless Bee Pollen. *Proceedings of the 2025 International Symposium on Stingless Bees, CBSUA, Bicol, Philippines*. 2025:89.
5. **Fadzilah NH**, Omar WA. Therapeutic Potential of Stingless Bee Pollen: Enhancing DNA Methylation and Genomic Stability. *Journal of Biomedical and Clinical Sciences (Special Issue MBD2024)*. 2024;9(2):13.
6. **Fadzilah NH**, Omar WA. Therapeutic Evaluation of Ethanolic Bee Pollen Extract from Malaysian Stingless Bee in MCF-7 and MCF-10A Cell Lines. *Journal of Tropical Agricultural Science*. 2023;46(1):37-48.
7. **Fadzilah NH**, Wan Omar WA. Therapeutic properties of Malaysian stingless bee pollen and its protective effect against DNA damage. *Proceedings of the 6<sup>th</sup> International Conference on Molecular Diagnostics and Biomarker Discovery: Building Resilience in Biomedical Research*. *In BMC Proceedings*. 2022;16(7):O-16.
8. **Fadzilah NH**, Mohamad NM, Muhamad M, Zulkifli NI, Kamal NNSNM, Razak SRA. *In Vitro* Cytotoxicity Activity of *Acanthus ilicifolius* on Tamoxifen-Resistant Breast Cancer Cell Line. *Proceedings of the 1<sup>st</sup> International Virtual Conference of Integrative Medicine*. *In Journal of Complementary and Integrative Medicine*. 2021;18(4):S1–S57.
9. Omar WA, Yahaya N, Ghaffar ZA, **Fadzilah NH**. GC-MS analysis of chemical constituents in ethanolic bee pollen extracts from three species of Malaysian stingless bee. *Journal of Apicultural Science*. 2018;62(2):275-284.
10. **Harif Fadzilah N**, Jaapar MF, Jajuli R, Wan Omar WA. Total phenolic content, total flavonoid and antioxidant activity of ethanolic bee pollen extracts from three species of Malaysian stingless bee. *Journal of Apicultural Research*. 2017;56(2):130-135.
11. **Nurdianah HF**, Firdaus AA, Azam OE, Adnan WW. Antioxidant activity of bee pollen ethanolic extracts from Malaysian stingless bee measured using DPPH-HPLC assay. *International Food Research Journal*. 2016;23(1):403-405.
12. Omar WA, Azhar NA, **Fadzilah NH**, Kamal NN. Bee pollen extract of Malaysian stingless bee enhances the effect of cisplatin on breast cancer cell lines. *Asian Pacific Journal of Tropical Biomedicine*. 2016;6(3):265-269.