

CURRICULUM VITAE



Name: Armania Nurdin
Position: Senior Lecturer
Department: Biomedical Sciences
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Education

1. Bachelor of Biomedical Sciences, Universiti Putra Malaysia – 2007.
2. Master of Science (Pharmacology), Universiti Putra Malaysia – 2013.
3. Doctor of Philosophy (Pharmaceutical Sciences), Tohoku University, Japan – 2016.

Areas of Interest

My primary research interests are mainly focusing on the discovery of protein biomarkers for cancer diagnosis and prognosis. In this research area, I am particularly focused on utilizing exosomes and membrane proteins derived from cancer cells as innovative platforms for biomarker discovery. I employ advanced proteomic technologies, including LC-MS/MS, to identify these crucial protein biomarkers. Beyond their potential as screening tools for early cancer detection, these identified protein biomarkers hold promise for the development of targeted and personalized cancer therapies.

Key research interest:

1. Development of non-invasive biomarkers for early detection of cancer.
2. Proteomic analysis using LCMS-MS for cancer biomarker discovery.
3. Drug discovery from natural products.
4. Animal model for cancer research.

Professional Qualification/ Membership/ Affiliation

1. The European Association for Cancer Research, member (2023).
2. Good Clinical Practice (GCP) certified by the Malaysia Ministry of Health.

Publications

Journals (in 5 years) (2024-2020)

1. Mahamud US, **Nurdin A**, Ezani E. 2024. Cytotoxicity and exposure assessment of PM_{2.5} in a residential home during COVID-19 lockdown. *Aerosol Air Qual. Res.* 24, 230205 (**Impact Factor: 2.5; Quartile 2**).
2. Shafiee MAM, Alwi SSS, Hanapi NAI, Salaebing M, Othman Z, **Nurdin A**. 2024. Cytotoxicity, proliferation and migration effects of 2,6-bis-(4-hydroxyl-3-methoxybenzylidene)cyclohexanone (BHMC). *Mal J Med Health Sci.* 15(SP2): 44-50.
3. Gunawardana NA, Roduan MRMd, Ezani E, Saidi HI, Zakuan NM, **Nurdin A**. 2024. Physiological Response and impact of COVID-19 pandemic among Malaysian citizens: a cross-sectional study. *Mal J Med Health Sci.* 20(1):100-111.

4. Roslan A, Said DS, Sulaiman N, Mohd Ghani KA, Nurdin A. 2023. Cluster of differentiation 147 (CD147) as potential membrane protein biomarker for bladder cancer cells. *J Pharm Biomed Anal.* 236:115729. **(Impact Factor: 3.1; Quartile 2)**
5. Loo YS, Zahid NI, Madheswaran T, Ikeno S, **Nurdin A**, Mat Azmi ID. 2023. Coencapsulation of gemcitabine and thymoquinone in citrem-phosphatidylcholine hexosome nanocarriers improves in vitro cellular uptake in breast cancer cells. *Mol Pharm.* 20(9):4611-4628. **(Impact factor:4.5; Quartile 2)**
6. Manan FAA, Yusof NA, Abdullah J, **Nurdin A**. 2023. Central composite design for optimization of mitomycin c-loaded quantum dots/chitosan nanoparticles as drug nanocarrier vectors. *Pharmaceutics.* 15(1):209. **(Impact Factor:4.9; Quartile 1)**
7. Ferdous UT, **Nurdin A**, Ismail S, Yusof ZNB. 2023. Evaluation of the antioxidant and cytotoxic activities of crude extracts from marine *Chlorella sp.* *Biocatal. Agric. Biotechnol.* 47:102551. **(Impact Factor:3.4; Quartile 2)**
8. Roslan A, Sulaiman N, Ghani KAM, **Nurdin A**. 2022. Cancer-associated membrane protein as targeted therapy for bladder cancer. *Pharmaceutics.* 14(10):2218. **(Impact Factor:4.9; Quartile 1)**
9. Molujin AM, Abbasiliasi S, **Nurdin A**, Lee PC, Gansau JA, Jawan R. 2022. Bacteriocins as potential therapeutic approaches in the treatment of various cancers: A review of *in vitro* studies. *Cancers.* 14(19):4758. **(Impact factor: 4.5; Quartile 1)**
10. **Nurdin A**, Yazan LS, Ismail IS. 2022. Bioassay-guided isolation of triterpene compounds from *Dillenia suffruticosa* and their cytotoxic activities against cancer cells. *Sains Malays.* 51(5):1487-1504. **(Impact factor:0.7; Quartile 4)**
11. Blin JA, Ali RM, **Nurdin A**, Hamid RA. 2021. Quinone-rich fraction of *Ardisia crispa* (Thunb.) A. DC roots alters angiogenic cascade in collagen-induced arthritis. *Inflammopharmacology,* 29(3):771-788. **(Impact factor:4.6; Quartile 2)**
12. Manan FAA, Yusof NA, Abdullah J, Mohammad F, **Nurdin A**, Yazan LS, Khiste SK, Al-Lohedan HA. 2021. Drug release profiles of mitomycin C encapsulated quantum dots-chitosan nanocarrier system for the possible treatment of non-muscle invasive bladder cancer. *Pharmaceutics.* 13(9):1379. **(Impact factor:4.9; Quartile 1)**
13. Badrulhisham NSR, Ab Hamid SNP, Ismail MAH, Yong YK, Muhamad Zakuan N, Harith HH, Saidi HI, **Nurdin A**. 2020. Harvested locations influence the total phenolic content, antioxidant levels, cytotoxic, and anti-inflammatory activities of stingless bee honey. *J. Asia. Pac. Entomol.* 23(4):950-956. **(Impact factor: 1.1; Quartile 3)**
14. Ismail MAH, Badrulhisham NSR, Lim V, **Nurdin A**, Harith HH, Yong YK. 2020. Comparison of antioxidant levels and anti-inflammatory activities of kelulut honey harvested at different month of intervals and its chemical compositions. *Pharmacogn. Mag.* 16(70):350-359. **(Impact factor: 0.6; Quartile 4)**
15. Jien TM, Ab Hamid SNP, Hashim NFM, **Armania N**, Saidi HI, Mohamad Zakuan N. 2020. Zerumbone induces cytotoxicity and inhibits cell migration of human colon cancer cells. *Sains Malays.* 49(6):1359-1370. **(Impact factor:0.7; Quartile 4)**

Research Grants (Principal Investigator)

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Elucidating the roles of circulating exosome protein biomarkers in prostate cancer cell invasion and migration.	30,000	2020	Majlis Kanser Nasional (Completed)
2.	Prognostic characterization and roles of protein biomarkers in exosomes-mediated prostate cancer cell invasion and angiogenesis.	192,800	2019	Ministry of Higher Education (MoHE) Fundamental Research Grant Scheme (FRGS)
3.	Identification of predictive markers for prostate cancer in cell culture-derived exosomes and human clinical samples: A strategy for biomarker discovery for prostate cancer.	56,600	2018	Universiti Putra Malaysia

Awards/ Recognition (Current)

No.	Name of awards	Award Authority	Award Type	Year
1.	MAKNA Cancer Research Award	Majlis Kanser Nasional	Research	2019
2.	Anugerah Perkhidmatan Cemerlang	UPM	Anugerah Perkhidmatan Cemerlang	2019
3.	Anugerah Perkhidmatan Cemerlang	UPM	Anugerah Perkhidmatan Cemerlang	2022

Student Supervision

PhD (Main Supervisor)			
No.	Name	Title	Status
1.	Diana Suhaiza Binti Said	Identification of predictive markers of prostate cancer in cell-culture derived exosomes: A strategy for biomarker discovery for prostate cancer.	2019 – present (On-going)
2.	Ahmad Zuhairi Bin Abd Rahman	The potential of exosomes as an early prediction marker for hepatocellular carcinoma (HCC).	2022 – present (On-going)
3.	Okorie Nnaemeka	Urine and serum-derived exosomes as potential diagnostic biomarkers of prostate cancer.	2022 – present (On-going)

Master with Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Adlina Binti Roslan	Proteomic analysis of potential membrane proteins in bladder cancer.	2019 -2023 (Graduated)
2.	Kavoosighahfarokhi Negin	Discovery of potential biomarkers for prediction of prostate cancer aggressiveness.	2021 - present (Ongoing)