

## CURRICULUM VITAE



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### Education

- PhD (Medicinal Chemistry), School of Pharmacy & Pharmaceutical Sciences, Cardiff University, United Kingdom (2011).
- Master of Science (Biochemistry), Universiti Kebangsaan Malaysia (2006).
- Bachelor of Science (Hons) Biomedical Sciences, Universiti Kebangsaan Malaysia (2002).

### Areas of Interest

- Pharmacology / Biotherapeutics/ Islamic Medicine
- Halal Science
- Pharmaceutical Science (Medicinal Chemistry)
- Anti-inflammatory / Anti-Cancer Research

### Professional Qualification/ Membership/ Affiliation

- BioMedKL – Kuala Lumpur and Selangor Biomedical Graduate Association - Lifetime member.
- Cardiff University Alumni – Lifetime member.

### Appointments (Inside and Outside UPM)

- Associate Researcher, Halal Products Research Institute (24<sup>th</sup> June 2019 – to date).
- Head of Pharmacology and Toxicology Unit, Department of Biomedical Sciences (2018 – 2021)

### Publications

#### Journals (in 5 years)

1. N. L. Mohd. Nasir, N. E. Kamsani, N. Mohtaruddin, S. F. Md. Tohid and Z. A. Zakaria (2020). Safety evaluation of orally-administered methanol extract of *Muntinga Calabura* Linn leaves – A sub-chronic toxicity study in Sprague Dawley rats. *Pakistan Journal of Pharmaceutical Sciences*. 33(3): XX-YY.
2. Zarith Nameyrra Md Nesran, Nurul Husna Shafie, Siti Farah Md Tohid, Mohd Esa Norhaizan and Amin Ismail. Iron Chelation Properties of Green Tea Epigallocatechin-3-Gallate (EGCG) in Colorectal Cancer Cells: Analysis on Tfr/Fth Regulations and Molecular Docking. *Evidence-based Complementary and Alternative Medicine*. Volume 2020. Article ID 7958041. 8 pages.  
<https://doi.org/10.1155/2020/7958041>
3. Baharuddin, A. A., Roosli, R. A. J., Zakaria, Z. A. & Tohid, S. F. M. (2021). *Dicranopteris linearis*: A potential medicinal plant with anticancer properties. *Boletin Latinoamericano Y Del Caribe De Plantas Medicinales Y Aromaticas (BLACPMA)*. 20(1): 28-37.
4. Muhammad Noorfaiz Mohd Noor, Shazleen Sofea Abdullah, Hasiah Ab Hamid, Muhammad Alif Mohammad Latif & Siti Farah Md Tohid (2022). Antioxidant activity of lawsone and prediction of its

activation property on superoxide dismutase. *International Journal of Pharmacology*. 18(5): 1058-1070. <https://doi.org/10.3923/ijp.2022.1058.1070>

5. Hani Syahirah Zulkefle, Shazleen Sofea Abdullah, Muhammad Alif Mohammad Latif & Siti Farah Md Tohid (2024). Lawsone attenuates acute low dose ethanol-induced skin inflammation in A431 epidermoid skin cells, and its related mechanism in targeting interleukin (IL)-1 $\alpha$  *in silico*. *Life Sciences, Medicine and Biomedicine*. 8(1): 1-10. <https://doi.org/10.28916/lsm.8.1.2024.162>
6. Mohd Nurhadi Hamsar, Awis Qurni Sazili, Siti Farah Md Tohid (2024). Chemical probe as specific detector of porcine protein or peptide in meat and meat-based products: Potential applications, challenges, and the way forward. *Journal of Agriculture and Food Research*. 15:101026. <https://doi.org/10.1016/j.jafr.2024.101026>
7. Nurul Syuhada Nordin, Yong Yoke Keong, Siti Farah Md Tohid, Zetty Nadia Md Zain, Muhammad Nazrul Hakim (2024). Pathogenic Advances in Rheumatoid Arthritis: A review. *Asian Journal of Medicine and Health Sciences*. (accepted).
8. Shazleen Sofea Abdullah, Muhammad Alif Mohammad Latif & Siti Farah Md Tohid (2024). *In Vitro And In Silico Studies Of Lawsone On Inflammation-Induced Skin Cells For Development Of Skin Anti-Inflammatory Treatment*. *Malaysian Applied Biology* (accepted).

#### Conference Proceedings (in 5 years)

1. Khairul Akmal Abdul Rahman, Winnie Khor, Adila Abdul Hamid, Siti Farah Md Tohid, King Hwa Ling, Norshariza Nordin (2022). Filling The Gap: Amniotic Fluid Stem Cells (AFSCs) As A Prospective Alternative Source Of Exogenous Neural Stem Cells (NSCs) For Neurodegenerative Diseases Therapy. 3rd International Anatomical and Biomedical Scientific Conference (IABS 2022) on 22nd - 24th November 2022.
2. Shazleen Sofea Abdullah, Muhammad Alif Mohammad Latif & Siti Farah Md Tohid (2022). Inhibitory Mechanism of Lawsone on Proinflammatory Cytokine, TNF-alpha via In Silico Methods. 9th International Symposium on Applied Engineering and Sciences, Abstract, Non Citation-Indexed, Universiti Putra Malaysia / Kyushu Institute of Technology.
3. Mohd Nurhadi Hamsar, Muhammad Alif Mohammad Latif & Siti Farah Md Tohid (2024). Synergistic Integration Of Virtual Screening Tools For Selection Of Potential Chemical Probes In Halal Meat Authentication. International Halal Symposium 2024, Abstract, Non Citation-Indexed, Universiti Malaysia Sabah.

#### Books

Nil

#### Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Mechanistic studies of potential chemical probes on AQ1 specific thermostable peptide for porcine detection in meat products.	172,740.00	2020	Ministry of Higher Education Malaysia
2.	Standardized <i>Lawsonia inermis</i> -based water extracts for skin inflammatory conditions.	20,000.00	2017	Universiti Putra Malaysia

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|----|--|-----------|------|---------------------------------------|
| 3. | Determination of mechanistic pathways underlying the anticancer activities of <i>Dicranopteris linearis</i> .  | 20,000.00 | 2015 | Universiti Putra Malaysia             |
| 4. | Preliminary investigations on the development of antitumour-promoting related phytopharmaceutical product from <i>Dicranopteris linearis</i>   | 35,000.00 | 2014 | Universiti Putra Malaysia             |
| 5. | Determination of mechanistic pathways underlying the antitumour-promoting and anti-cancer activities of <i>Dicranopteris linearis</i> : Towards the identification of <i>D. linearis</i> bioactive compounds | 95,000.00 | 2014 | Ministry of Higher Education Malaysia |

#### Awards/ Recognition (Current)

No.	Name of awards	Award Authority	Award Type	Year
1.	International Stem Olympiad Istemo 2019	Kementerian Pendidikan Malaysia/ UPM	Gold Award	2019
2.	International Stem Olympiad Istemo 2018	Kementerian Pendidikan Malaysia/ UPM	Silver Award	2018
3.	Anugerah Pencapaian Cemerlang	UPM	Service	2018-2020

#### Professional Services/ Consultation

No.	Year	Title	Authority
1.	2022	External Examiner Master Viva Nurul 'Izzati binti Mohd Jihadi	INHART, IIUM
2.	2020	Section Editor	Malaysian Journal of Microscopy

#### Student Supervision

##### PhD (Main Supervisor)

No.	Name	Title	Status
1.	Mohd Nurhadi Hamsar	Mechanistic studies of potential chemical probes on AQ1 specific thermostable peptide for porcine detection in meat products	On-going

##### Master with Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Shazleen Sofea Abdullah	Lawsonia as potential skin anti-inflammatory agent: Targeting selected inflammatory cytokines for Halalan Toyyiban drug development	Graduated
2.	Nursyazliaty Mohd Shafawi	Effect of <i>Lawsonia inermis</i> aqueous extract on skin inflammatory conditions	On-going



3. Aifaa Akmal Baharuddin Determination of mechanistic pathways underlying the anticancer activities of *Dicranopteris linearis*. Graduated
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<b>Intellectuals Property</b>			
<b>Patent Granted</b>			
<b>No.</b>	<b>Date</b>	<b>Patent No.</b>	<b>Name</b>

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<b>Patent Field</b>			
<b>No.</b>	<b>Date</b>	<b>Patent No.</b>	<b>Name</b>

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|----|------------|--|---|
| 1. | XX/10/2024 | In preparation (will be submitted soon). | Chemical probe as specific detector for porcine protein/peptide detection for in meat/meat-based products for Halal authentication. |
| 2. |            |  |   |