

## CURRICULUM VITAE



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Department Biomedical Sciences  
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### Education

Qualification obtained : Doctor of Philosophy  
Field of Study : Molecular Medicine  
University : Universiti Putra Malaysia  
Graduation Year : 2012

Qualification obtained : Bachelor of Science (Hons)  
Field of Study : Biochemistry  
University : Universiti Putra Malaysia  
Graduation Year : 2007

### Areas of Interest

1. Immunopharmacology
2. Experimental therapeutics of inflammatory and allergic diseases
3. Cell biology and cellular signaling
4. Natural products

### Professional Qualification/ Membership/ Affiliation

1. Malaysian Society of Allergy and Immunology (MSAI) – Member
2. European Academy of Allergy and Clinical Immunology (EAACI) – Member
3. Inflammation Research Association (IRA) – Member
4. Society for Medicinal Plant and Natural Product Research (GA) - Member
5. Young Scientists Network - Academy of Sciences Malaysia (YSN-ASM) – Affiliate member
6. The Asia Pacific Association of Allergy, Asthma, and Clinical Immunology (APAAACI) – Member

### Appointments (Inside and Outside UPM)

1. Head, Unit of Cell Biology, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, UPM (2019-present)
2. Committee member of Graduate Studies, Faculty of Medicine and Health Sciences, UPM (2014-2020)
3. Tzu Chi Teachers Association - Taiwan Buddhist Tzu Chi Foundation Malaysia (Kuala Lumpur & Selangor Branch) – President (2017-2022)
4. Tzu Chi Teachers Association - Taiwan Buddhist Tzu Chi Foundation Malaysia (Kuala Lumpur & Selangor Branch) – Vice President (2023-present)
5. Research Coordinator, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, UPM (2023-present)

### Publications

#### Journals (recent 5 years 2020-2024)

1. Yee Han Chan, Hanis Hazeera Harith, Daud Ahmad Israf Ali, **Chau Ling Tham\***. Differential regulation of LPS-mediated VE-cadherin disruption in human endothelial cells and the underlying signaling pathways: A mini review. *Frontiers in Cell and Developmental Biology* 2020; 7: 280 (Quartile 1; Impact factor: 5.206).
2. Audrey Kow Siew Foong, Lai Yen Fong, Leng Wei Khoo, Ji Wei Tan, Lee Ming-Tatt, Daud Ahmad Israf, Faridah Abas, and **Chau Ling Tham\***. *Clinacanthus nutans* Aqueous Extract Suppresses the Release of Histamine and  $\beta$ -hexosaminidase in In Vitro Model of IgE-Mediated Mast Cell Degranulation. *Pharmacognosy Magazine* 2020; 16(69): 400-408 (Quartile 4; Impact factor: 1.575).
3. Masturah Mohd Narawi, Hock Ing Chiu, Yoke Keong Yong, Nur Nadhirah Mohamad Zain, Muggundha Raoov Ramachandran, **Chau Ling Tham**, Siti Fatimah Samsurrijal and Vuanghao Lim. Biocompatible Nutmeg Oil-Loaded Nanoemulsion as Phyto-Repellent. *Frontiers in Pharmacology* 2020; 11:214 (Quartile 1; Impact factor: 3.845).
4. Nur Amilia Hanie Mohamad Hasan, Hanis Hazeera Harith, Daud Ahmad Israf Ali, **Chau Ling Tham**. The Differential Effects of Commercial Specialized Media on Cell Growth and Transforming Growth Factor beta 1-induced Epithelial-mesenchymal Transition in Bronchial Epithelial Cells. *Molecular Biology Reports* 2020, 47: 3511-3519 (Quartile 3; Impact factor: 2.107).
5. Yamen Alkhateeb, Qais B. Jarrar, Faridah Abas, Yaya Rukayadi, **Chau Ling Tham**, Khozirah Shaari. Pharmacokinetics and metabolism of liposome-encapsulated 2,4,6-trihydroxygeranylacetophenone in rats using high-resolution orbitrap liquid chromatography mass spectrometry. *Molecules* 2020, 25(13), 3069 (Quartile 2; Impact factor 3.267).
6. Dahlan Daud CK, Zain ZN, **Tham CL**, Yong YK, Hakim MN. Effects of 4-thiopurine Compounds on Nitric Oxide Production and Cell Viability of HIG-82 Synoviocytes and RAW 264.7 Macrophages. *Biomedical and Pharmacology Journal* 2020, 13(3).
7. Md Faizul Hafiz, Kong Yen Liew, Yi Joong Chong, Ji Wei Tan, Daud Ahmad Israf and **Chau Ling Tham\***. A Review of Malaysian Herbal Plants and Its Active Constituents with Potential Therapeutic Applications in Sepsis. *Evidence-Based Complementary and Alternative Medicine* 2020, 8257817 (Quartile 2; Impact factor 1.813).
8. Poi Yi Aw Yong, Fahmida Islam, Hanis Hazeera Harith, Daud Ahmad Israf, Ji Wei Tan and **Chau Ling Tham\***. The Potential Use of Honey as a Remedy for Allergic Diseases: A Mini Review. *Frontiers in Pharmacology* 2021; 11: 599080 (Quartile 1; Impact factor 4.225).

9. F.A. Yahya, N.F.M. Hashim, D.A.I. Ali, **T.C. Ling**, M.S. Cheema, A brief overview to systems biology in toxicology: the journey from in-vivo, in-vitro and –omics, *Journal of King Saud University - Science* 2021; 33(1): 101254 (Quartile 2; Impact factor: 3.819).
10. Siti Munirah Mohd Faudzi, SW Leong, Faruk. A. Auwal, Faridah Abas, KW Lam, Syahida Ahmad, **CL Tham**, Khozirah Shaari, Nordin H Lajis, Bohari M Yamin. In-silico studies, nitric oxide and cholinesterases inhibition activities of pyrazole and pyrazoline analogues of diarylpentanoids. *Archive der Pharmazie* 2021, 354(1): 2000161. Article ID: 16877561 (Quartile 2; Impact factor 2.59).
11. **Chau Ling Tham**, Yeoh Sin Yee, Chun Hao Ong, Hanis Hazeera Harith, Daud Ahmad Israf. A Synthetic Curcuminoid Analogue, 2,6-bis-4-(hydroxyl-3-methoxybenzylidene)-cyclohexanone (BHMC) Ameliorates Acute Airway Inflammation of Allergic Asthma in Ovalbumin-sensitized Mice. *Mediators of Inflammation* 2021, vol. 2021, Article ID 9725903, 10 pages (Quartile 2; Impact factor 3.758).
12. Yee Han Chan, Nazmi Firdaus Musa, Yi Joong Chong, Siti Arfah Saat, Faizul Hafiz, Khozirah Shaari, Daud Ahmad Israf & **Chau Ling Tham\***. 2,4,6-Trihydroxy-3-geranyl acetophenone suppresses vascular leakage and leukocyte infiltration in lipopolysaccharide-induced endotoxemic mice, *Pharmaceutical Biology* 2021, 59:1, 732-740, DOI: 10.1080/13880209.2021.1933083 (Quartile 1; Impact factor 2.971).
13. Yee Han Chan, Kong Yen Liew, Ji Wei Tan, Khozirah Shaari, Daud Ahmad Israf, **Chau Ling Tham\***. Pharmacological Properties of 2,4,6-Trihydroxy-3-Geranyl Acetophenone and the Underlying Signaling Pathways: Progress and Prospects. *Front. Pharmacol.* 2021; 12: 736339. DOI: 10.3389/fphar.2021.736339. (Quartile 1; Impact factor 5.810).
14. Chun Hao Ong, **Chau Ling Tham**, Hanis Hazeera Harith, Nazmi Firdaus, Daud Israf. TGF- $\beta$ -induced Fibrosis: A Review on the Underlying Mechanism and Potential Therapeutic Strategies. *European Journal of Pharmacology* 911: 174510. DOI: 10.1016/j.ejphar.2021.174510. (Quartile 2; Impact factor 4.432).
15. Wafda Rohhimi, Ji Wei Tan, Kong Yen Liew, Alain Jacquet, Hanis Hazeera Harith, Daud Ahmad Israf, **Chau Ling Tham\***. Zerumbone Attenuates House Dust Mite-Induced Epithelial Barrier Dysfunction in 16HBE14o- Cells. *Immunopharmacology and Immunotoxicology* 2021 DOI: 10.1080/08923973.2021.1992633 (Quartile 3; Impact factor 2.73).
16. Kong Yen Liew, Nurain Irdayani Kamise, Hui Ming Ong, Poi Yi Aw Yong, Fahmida Islam, Ji Wei Tan, **Chau Ling Tham\***. Anti-allergic Properties of Propolis: Evidence from Preclinical and Clinical Studies. *Frontiers in Pharmacology* 2022; 12:785371. DOI: 10.3389/fphar.2021.785371 (Quartile 1; Impact factor 5.810).
17. Kong Yen Liew, Sue Kie Koh, Suet Li Hooi, Matthew Kah Lup Ng, Hui-Yee Chee, Hanis Hazeera Harith, **Chau Ling Tham\***. Rhinovirus-Induced Cytokine Alterations with Potential Implications in Asthma Exacerbations: A Systematic Review and Meta-Analysis. *Frontiers in Immunology* 2022; 13:782936. DOI: 10.3389/fimmu.2022.782936 (Quartile 1; Impact factor 7.561).
18. Carisa Su-Ann Wong, Cheng Wei Lim, Haruna Isa Mohammed, Kong Yen Liew, **Chau Ling Tham**, Ji Wei Tan and Hui Yee Chee. Current Perspective of Plant-based Diets on Communicable Diseases Caused by Virus: A Mini Review. *Frontiers in Nutrition* 9:786972. doi: 10.3389/fnut.2022.786972. (Quartile 2; Impact factor 6.576).
19. Vivi Nur Khalieda Mohd Kasim, Siti Mahirah Noble, Ji Wei Tan, Daud Ahmad Israf, **Chau Ling Tham\***. Management of Atopic Dermatitis via Oral and Topical Administration of Herbs in Murine

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- Model: A Systematic Review. *Frontiers in Pharmacology* 2022, 13:785782. doi 10.3389/fphar.2022.785782 (Quartile 1; Impact factor 5.810).
20. Ming Tatt Lee, Li Chen, Xudong Jiang, Si Gao, Xueping Liu, Ying Gao, Audrey Siew Foong Kow, **Chau Ling Tham**. Sensitization effect of Kaempferol from Persimmon leaves on Hepatoma Cells with ABT-199 resistance and its molecular mechanisms. *Frontiers in Pharmacology* 2022, 13: 1032069. doi [10.3389/fphar.2022.1032069](https://doi.org/10.3389/fphar.2022.1032069) (Quartile 1; Impact factor 5.810).
21. Gengfan Liang, Audrey Siew Foong Kow, **Chau Ling Tham**, Yu-Cheng Ho, Ming Tatt Lee. Ameliorative Effect of Tocotrienols on Menopausal-associated Osteoporosis – A Review. *Antioxidants* 2022, 11, 2179. doi.org/10.3390/antiox11112179 (Top 10%; Impact factor 7.675).
22. Helena Hui Lin Ngui, Audrey Siew Foong Kow, Sally Lai, **Chau Ling Tham**, Yu-Cheng Ho, Ming Tatt Lee. Alcohol Abuse, Alcohol Withdrawal and the Associated Mood Disorders - A Review. *International Journal of Molecular Sciences* 2022, 23, 14912. <https://doi.org/10.3390/ijms232314912> (Quartile 1; Impact factor 6.208).
23. Audrey Kow Siew Foong, Leng Wei Khoo, Ji Wei Tan, Lee Ming-Tatt, Daud Ahmad Israf, Faridah Abas, Khozirah Shaari and **Chau Ling Tham\***. *Clinacanthus nutans* Aqueous Extract Exerts Anti-Allergic Activity in Preclinical Anaphylactic Models via Alternative IgG Pathway. *Journal of Ethnopharmacology* 2023, 303: 116003. <https://doi.org/10.1016/j.jep.2022.116003>. ISSN 0378-8741. (Quartile 1; Impact factor 4.36).
24. Chai Xin Yu, Jian Wei Tan, Kamal Rullah, Syahrul Imran, **Chau Ling Tham\***. Insight parameter drug design for human  $\beta$ -tryptase inhibition integrated molecular docking, QSAR, molecular dynamics simulation, and pharmacophore modelling studies of  $\alpha$ -keto-[1,2,4]-oxadiazoles. *Journal of Biomolecular Structure and Dynamics* 2023; 41:22,12978-12996. <https://doi.org/10.1080/07391102.2023.2171131> (Quartile 1; Impact factor 5.235).
25. Jing Yung Lai, Jian Xiang Ho, Audrey Siew Foong Kow, Gengfan Liang, **Chau Ling Tham**, Yu-Cheng Ho and Ming Tatt Lee. Interferon therapy and its associated depressive disorder – A review. *Frontiers in Immunology* 2023; 14: 1048592. doi: 10.3389/fimmu.2023.1048592 (Quartile 1; Impact factor 8.786).
26. Pei Lou Wong, Nur Khaleeda Zulaikha Zolkeflee, Nurul Shazini Ramli, Chin Ping Tan, Azrina Azlan, **Chau Ling Tham**, Khozirah Shaari, Faridah Abas. Antidiabetic effect of *Ardisia elliptica* extract and its mechanisms of action in STZ-NA-induced diabetic rat model via 1H-NMR-based metabolomics. *Journal of Ethnopharmacology* 2023; 117015. doi: 10.1016/j.jep.2023.117015 (Quartile 1; Impact factor 4.36).
27. Poi Yi Aw Yong, Jia Wen Yip, Fahmida Islam, Hui Jing Hong, Yi En Teh, **Chau Ling Tham\***, Ji Wei Tan\*. The Anti-Allergic Potential of Stingless Bee Honey from Different Botanical Sources via Modulation of Mast Cell Degranulation. *BMC Complementary Medicine and Therapies* 2023, 23: 307. <https://doi.org/10.1186/s12906-023-04129-y> (Quartile 1; Impact factor 3.9).
28. Chun Hao Ong, **Chau Ling Tham**, Hanis Hazeera Harith, Nazmi Firdaus, Daud Ahmad Israf. Drug Repurposing of Clinically Approved Drugs to Target Epithelial-Mesenchymal Transition Using Molecular Docking Approach. *Malaysian Journal of Medicine and Health Sciences* 2023, 19(5): 15-23 (Scopus indexed).
29. Yu Zhao Lee, Audrey Siew Foong Kow, Alain Jacquet, Ming Tatt Lee and **Chau Ling Tham\***. House Dust Mite Allergy in Malaysia: Review of Research Gap in the Current Scenario and the Way Forward. *Experimental and Applied Acarology* 2023 doi: 10.1007/s10493-023-00857-5 (Quartile 1; Impact factor 2.2).

30. Gengfan Liang, Audrey Siew Foong Kow, Rohana Yusof, **Chau Ling Tham**, Yu-Chung Ho and Ming Tatt Lee. Menopause-associated depression: Impact of Oxidative Stress and Neuroinflammation on the Central Nervous System – A Review. *Biomedicines* 2024, 12(1), 184. (Quartile 2; Impact factor 4.7).
31. Kamal Rullah, Nur Farisya Shamsudin, Andreas Koeberle, **Chau Ling Tham**, Mohd Fadhilzil Fasihi Mohd Aluwi, Sze-Wei Leong, Ibrahim Jantan, Lam Kok Wai. Flavonoid diversity and roles in the lipopolysaccharide-mediated inflammatory response of monocytes and macrophages. *Future Medicinal Chemistry* 2024, 16(1):75-99. (Quartile 2; Impact factor 4.2).
32. Nur Khaleeda Zulaikha Zolkeflee, Pei Lou Wong, Maulidiani M, Nurul Shazini Ramli, Azrina Azlan, Ahmed Mediani, **Chau Ling Tham**, Faridah Abas. Revealing metabolic and biochemical variations via <sup>1</sup>H-NMR metabolomics in streptozotocin-nicotinamide-induced diabetic rats treated with metformin. *Biochemical and Biophysical Research Communications* 2024, 708: 149778. (Quartile 2; Impact factor 3.1).
33. Cheng Wei Lim, Kong Yen Liew, Sie Hui Lim, Manraj Singh Cheema, Puteri Suhaiza Sulaiman, Hanis Hazeera Harith, Hasni Idayu Saidi, **Chau Ling Tham\***. Acquisition of Aseptic Techniques using Virtual Reality: A Randomized Trial on Performance, Emotion and Experience. *Education and Information Technologies* 2024; 21, 36. <https://doi.org/10.1186/s41239-024-00472-3> <https://doi.org/10.1007/s10639-024-12696-x> (Top 10%; Impact factor 5.5).
34. Chai Xin Yu, **Chau Ling Tham\***. Drug Discovery and Development: A Historical Overview and Current Challenges and Perspectives. *Life Sciences, Medicine and Biomedicine* 2024; 8, (1): 137. <https://doi.org/10.28916/lsm8.1.2024.137>.
35. Cheng Wei Lim, Kong Yen Liew, Sie Hui Lim, Manraj Singh Cheema, Puteri Suhaiza Sulaiman, Hanis Hazeera Harith, Hasni Idayu Saidi, **Chau Ling Tham\***. Student Acceptance towards AsepticTech VR: A Teaching and Learning Tool for Cell and Tissue Culture Aseptic Techniques. *International Journal of Educational Technology in Higher Education* 21, 36 (2024). <https://doi.org/10.1186/s41239-024-00472-3>. (Top 10%; Impact factor 8.6)
36. Gengfan Liang, Yu Zhao Lee, Audrey Siew Foong Kow, Qi Long Lee, Luis Wei Cheng Lim, Rohana Yusof, **Chau Ling Tham**, Yu-Chung Ho, and Ming Tatt Lee. Neuroprotective Effects of Gypenosides: A Review on Preclinical Studies of Neuropsychiatric Disorders. *European Journal of Pharmacology* 978, 2024, 176766, ISSN 0014-2999, <https://doi.org/10.1016/j.ejphar.2024.176766>. (Quartile 1; Impact factor: 4.2)
37. Vivi Nur Khalieda Mohd Kasim, Yu Zhao Lee, Ikmal Hisyam Bakrin, Mohd Khairi Hussain, Daud Ahmad Israfi, Khozirah Shaari, Ji Wei Tan, Ming Tatt Lee, **Chau Ling Tham\***. Oral and Topical Administration of a Geranyl Acetophenone Attenuates DNCB-induced Atopic Dermatitis-like Skin Lesions in BALB/c Mice. *Scientific Reports* 2024. (Quartile 2; Impact factor: 3.8).
38. Ebtisam Yousef A Alnakeeb, Ahmad Faizal Abdull Razis, Kim Wei Chan, **Chau Ling Tham**, Yee Han Chan, Anwar Salm Kalifa Kafo, Nuzul Noorahya Jambari, Patrick Rollin, and Florence Djedaini-Pilard. Antiallergic Effect of the Alpha-Cyclodextrin Moringin Complex in Rat Basophilic Leukaemia (RBL-2H3) Cell Line. *Advances in Pharmacological and Pharmaceutical Sciences* 2024: Article ID 8885068. <https://doi.org/10.1155/2024/8885068>. (Quartile 3; Impact factor: 2.1).
39. Noor Izzah Abd Rahman, **Chau Ling Tham**, Roslida Abd Hamid. Inhibition of angiogenesis and metastasis in colorectal cancer cell lines through KRAS-associated signaling pathways by 2-methoxy-6-undecyl-1,4-benzoquinone. *Chemico-Biological Interactions* 399 2024, 111151, ISSN 0009-2797, <https://doi.org/10.1016/j.cbi.2024.111151>. (Quartile 1; Impact factor: 4.7).

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40. Gengfan Liang, Audrey Siew Foong Kow, Yu-Zhao Lee, Rohana Yusof, **Chau Ling Tham**, Yu-Chung Ho, Ming Tatt Lee. Ameliorative effect of  $\alpha$ -tocopherol and tocotrienol-rich palm oil extract on menopausal-associated mood disorder in ovariectomised mice. *Biochemical and Biophysical Research Communications*, 2024, 150443, ISSN 0006-291X, <https://doi.org/10.1016/j.bbrc.2024.150443>. (Quartile 2; Impact factor: 2.5).

### Books

1. Problem-Based Learning in Biomedical Sciences / Abdah Md Akim. ISBN 978-967-344-650-6. Universiti Putra Malaysia Press 2017.
2. The Inhibitory Activity of *Clinacanthus nutans* Standardized Ethanolic Extract on IgE-Mediated Mast Cell Activation and Anaphylactic Reaction. NKEA Agriculture (EPP#1) NH1014D067.

Research Grants (As Principal Investigator)				
No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Preventive effect of coconut water kefir on atherosclerosis induced in high-fat, high-fructose diet-induced hyperlipidemic rats	25,661	2024-2025	Mae Fah Luang University, Thailand
2.	Development of functional flour containing promising medicinal plants with preventive effects towards atherosclerosis	32,343	2024-2025	Mae Fah Luang University, Thailand
3.	Inisiatif Pemerkasaan Penerbitan Jurnal Tahun 2024.	28,000	2024-2026	Geran Putra Inisiatif (GPI)
4.	Inhibition of Human Mast Cell Tryptase By Gabexate Mesylate and Argatroban in Dengue Virus-Induced Vascular Leakage: Potential Repurposing of Drugs for the Treatment of Dengue	RM145,170	2023-2025	Fundamental Research Grant Scheme (FRGS)
5.	Elucidation of the Molecular Sensitization Profile to <i>Blomia tropicalis</i> Allergens and its Association with Clinical Symptoms using Component Resolved Diagnosis in Different Regions of Malaysia	90,000	2022-2024	Geran Putra Berimpak UPM
6.	Production of Acetophenone-Enriched, Standardized Leaves Extract of <i>Melicope ptelefolia</i> (ACE-MPE™) and Evaluation of Its Anti-allergic Inflammatory Properties	210,000	2021-2022	Industry Grant – Nexus Wise Sdn Bhd
7.	Acquisition of Proper Aseptic Technique using Virtual Reality to Improve the Learning and Research among Biomedical Science Undergraduate and Postgraduate Students	20,000	2020-2022	Geran Insentif Penyelidikan untuk Pengajaran dan Pembelajaran (GIPP)
8.	<i>In Vitro</i> Protective Effect of tHGA on Cell-Cell Junctional Protein Disruption and Its Underlying Mechanism In Lipopolysaccharides-Induced Hyperpermeability	25,000	2018-2020	Putra Grant - Putra Graduate Initiative (IPS)
9.	Investigating the Effects of Free Form and Nanoencapsulated Curcumin-like	228,000	2019-2022	Fundamental Research Grant Scheme (FRGS)

Diarylpentanoid Analogues for the Treatment of Exacerbated Respiratory Disorders Caused by Rhinovirus

10.	The Potential Therapeutic Application of tHGA as a Mast Cell Stabilizer for Atopic Dermatitis-Like Skin Lesions <i>In Vivo</i>	150,000	2018-2021	Putra Grant – High Impact
11.	Determination of Linker for Activation of T cells (LAT) as the Specific Molecular Target of tHGA in LAT and LAT2 Deficient RBL-2H3 Cells Through the Release of Proinflammatory Mediators	20,000	2016-2017	Putra Grant - Putra Graduate Initiative (IPS)
12.	Identification of Molecular Target of Zerumbone on House Dust Mite-Induced Tight Junction Barrier Impairment in Cellular Model of Allergic Asthma	58,000	2015-2018	Putra Grant - Putra Young Initiative (IPM)
13.	Determination of Protective Effect of tHGA on Endotoxin-Induced Lethal Sepsis in Mice	20,000	2014-2016	Putra Grant - Putra Graduate Initiative (IPS)
14.	<i>In Vitro</i> Reversal Effect of Zerumbone on Allergen-Induced Airway Epithelial Disruption in Asthma	2,000	2014	Geran Sanjungan Penyelidikan Tahun 2013
15.	Determination of Molecular Targets and Anti-Inflammatory Effects of tHGA in Endotoxin-Induced Vascular Endothelial Dysfunction and Lethal Sepsis in Mice	144,000	2013-2016	Fundamental Research Grant Scheme (FRGS)
16.	Inhibitory Effect of 2,4,6,-Trihydroxy-3-Geranylacetophenone (tHGA) on Mast Cell Degranulation in Allergic Asthma	172,000	2013-2016	Exploratory Research Grant Scheme (ERGS)
17.	<i>In Vitro</i> Reversal Effect of Zerumbone on Allergen-Induced Airway Epithelial Disruption in Asthma	20,000	2013-2014	Malaysia Toray Science Foundation (MTSF)

Awards/ Recognition (Current)				
No.	Name of awards	Award Authority	Award Type	Year
1.	The Sensitisation Profile of Malaysian Atopic Population to Three Major House Dust Mite Allergens and its Association with Allergic Diseases and Geographic Location	14 <sup>TH</sup> Malaysian Symposium of Biomedical Science 2024	Best Oral Presentation	2024
2.	Students' Acceptance towards Aseptictch VR: A Virtual Mobile Application to Learn Cell and Tissue Culture Aseptic Techniques	International PutralInnoCreative Carnival in Teaching and Learning 2023 (PICTL 2023)	Silver medal	2023
3.	High Achieving Researcher Award	Faculty of Medicine and Health Sciences, Universiti Putra Malaysia	High Achieving Researcher 2023 Award	
4.	Production of Acetophenone-Enriched, Standardized Leaves Extract of <i>Melicope ptelefolia</i> (ACE-MPE <sup>TM</sup> ) and Evaluation of Its Anti-allergic Inflammatory Properties	Industry Community Appreciation Networking (ICAN) 2022/2023	Best Industry Linkage Project	2023
5.	Inhibitory Effects of <i>Melicope ptelefolia</i> Standardised Extract As An Oral Treatment For Atopic Dermatitis-Like Skin Lesions	Department of Biomedical Science, Universiti Putra Malaysia	Best Final Year Project	2022
6.	Best Supervisor Award (Publications)	Faculty of Medicine and Health Sciences, Universiti Putra Malaysia	Best Supervisor Award (Publications)	2022
7.	Curcumin-like diarylpentanoid analogues inhibit influenza A virus (H1N1) replication and pro-inflammatory cytokines production in A549 lung epithelial cells	26th Congress of the Asian Pacific Society of Respirology (APSR 2022)	Assembly Education Award	2022
8.	Acquisition of Aseptic Techniques using Virtual Reality: Performance, Emotion And Engagement	International PutralInnoCreative Carnival in Teaching and Learning 2022 (PICTL 2022)	Gold medal	2022
9.	Comparison Of Cognitive, Affective And Psychomotor Performances Among Biomedical Science Students In The Acquisition Of Aseptic Techniques Using Virtual Reality Application And Traditional Teaching Method	International University Carnival on E-Learning IUCEL 2022	Silver medal	2022
10.	Teaching Excellence Award 2021 (Health Science Category)	Faculty of Medicine and Health Sciences,	Second Place	2022



	Universiti Putra Malaysia		
11. Educational grant for APAAACI 2021 International Conference	The Asia Pacific Association of Allergy, Asthma and Clinical Immunology (APAAACI)	Travel Award	2021
12. Introduction to Essential Equipment and Safety Considerations in A Cell Culture Laboratory via Innovative Station Games	International PutralnnoCreative Carnival in Teaching and Learning 2020 (PICTL2020)	Gold medal	2020
13. Unpuzlling Concepts with Puzzles for the Learning of Cell Biology	International PutralnnoCreative Carnival in Teaching and Learning 2020 (PICTL2020)	Silver medal	2020
14. Top Downloaded Paper in 2018-2019	Wiley	Top Downloaded Paper in 2018-2019	2020
15. A Plant Discovery: From Folklore to Reality	International STEM OLYMPIAD ISTEMO	Silver medal	2019
16. Anugerah Perkhidmatan Cemerlang	UPM	Service Award	2019
17. Molecular Detection of <i>Leptospiral</i> DNA in Human Samples using Loop-Mediated Isothermal Amplification (LAMP) Targeting <i>Lip132</i> Gene	Genetics Society of Malaysia	PGM Book Prize 2019	2019
18. Molecular Detection of <i>Leptospiral</i> DNA in Human Samples using Loop-Mediated Isothermal Amplification (LAMP) Targeting <i>Lip132</i> Gene	Faculty of Medicine and Health Sciences, UPM	Best Final Year Project	2019
19. The Effect of tHGA on Tight Junctional Proteins Expression in Lipopolysaccharides-Induced Endothelial Hyperpermeability	Faculty of Medicine and Health Sciences, UPM	Best Final Year Project (Herbs Category)	2018
20. Outstanding contribution in reviewing	Elsevier	Outstanding contribution in reviewing	2017
21. Zerumbone protects against house dust mite-induced airway epithelial barrier disruption by preserving junctional permeability and localization	2nd International Anatomical and Biomedical Scientific Conference (IABS) 2017 "Research Advances in Health Sciences"	Best Oral Presenter	2017
22. A Phloroglucinol from <i>Melicope ptelefolia</i> Attenuates Lipopolysaccharides-Stimulated Inflammatory Responses in Human Umbilical Vein Endothelial Cells	The 26 <sup>th</sup> Scientific Meeting of the International Society of Hypertension (ISH)	Travel Award	2016



23.	Anugerah Perkhidmatan Cemerlang	UPM	Anugerah Perkhidmatan Cemerlang	2015
24.	2, 4, 6,-Trihydroxy-3-Geranylacetophenone (tHGA) Inhibits IgE-Mediated Degranulation by Suppressing The Production of Key Mediators in Rat Basophilic Leukemia RBL-2H3 Cells	Faculty Excellence Month	Best Poster Award	2015
25.	2, 4, 6,-Trihydroxy-3-Geranylacetophenone (tHGA) Inhibits Newly Synthesized Mediators Release in IgE-Mediated Mast Cell Degranulation	International Anatomical and Biomedical Scientific Conference (IABS) 2015 "From Cell Towards Translational Medicine"	Best Poster Award	2015
26.	"Defend the barrier!"	Faculty Excellence Month	Three Minutes Thesis 3rd	2015
27.	A phloroglucinol from <i>Melicope ptelefolia</i> preserves barrier integrity of lipopolysaccharide-induced endothelial cells: study on junctional proteins and cytoskeleton remodeling	International Anatomical and Biomedical Scientific Conference (IABS) 2015 "From Cell Towards Translational Medicine"	Young Investigator Award	2015
28.	2,4,6-trihydroxy-3-geranylacetophenone (tHGA) Attenuates LPS-Induced Hyperpermeability of Endothelial Cells	UTAR 3rd National Postgraduate Fundamental and Applied Sciences Seminar	Best Oral Presenter	2015
29.	Evaluation of <i>in vitro</i> and <i>in vivo</i> Barrier Protective Effect of 2,4,6-Trihydroxy-3-Geranylacetophenone	International Traditional and Complementary Medicine (INTRACOM) Conference, Exhibition and Carnival	Best Poster Award	2014
30.	<i>In vitro</i> Inhibitory Effects of 2, 4, 6,-Trihydroxy-3-Geranylacetophenone (tHGA) on IgE-Mediated Mast Cell Degranulation	International Traditional and Complementary Medicine (INTRACOM) Conference, Exhibition and Carnival	Best Poster Award	2014
31.	A Geranyl Acetophenone Attenuates Lipopolysaccharides-Induced Permeability and F-actin Cytoskeleton Rearrangement of Endothelial Cells	62nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA)	Travel Award	2014
32.	2,6-bis-4-(hydroxyl-3-methoxybenzylidene)-cyclohexanone (BHMC) prevents allergic airway inflammation in ovalbumin-sensitized mice	International Union of Physiological Sciences	Travel Award	2013
33.	<i>In Vitro</i> Reversal Effect of Zerumbone on Allergen-Induced Airway Epithelial Disruption in Asthma	Toray Science Foundation, Japan	Recipient of Science and Technology Research Grant	2012
34.	A geranyl acetophenone targeting cysteinyl leukotriene synthesis	Exhibition of Invention, Research & Innovation	Silver medal	2012



prevents allergic airway inflammation in ovalbumin-sensitized mice

Malaysia (PRPI)

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|-----|---|---|-------------------|------|
| 35. | BHMC, A Curcuminoid Derivative, Attenuates Proinflammatory Mediator and Adhesion Molecule Expression via Selective Disruption of p38 MAP Kinase Activity  | Exhibition of Invention, Research & Innovation Malaysia (PRPI)                        | Gold medal        | 2010 |
| 36. | Flavonoids Synergize to Inhibit Major Proinflammatory Mediator Secretion and Protect Mice against Lethal Sepsis   | Exhibition of Invention, Research & Innovation Malaysia (PRPI)                        | Gold medal        | 2010 |
| 37. | Synthetic Chalcones Inhibit Proinflammatory Mediator Secretion in LPS-Induced Macrophage and Endothelial Cells  | 1 <sup>st</sup> Pharmaceutical Sciences Conference and Exhibition                     | Best Poster Award | 2010 |
| 38. | BHMC, A Curcuminoid Derivative, Inhibits Endothelial-Monocyte Adhesion Via Attenuation Of Intercellular Adhesion Molecule Expression Through Disruption Of NF- $\kappa$ B And p38 MAPK Pathways | 2 <sup>nd</sup> International Protein Extraction and Purification Strategies Workshop | Travel Award      | 2011 |



Professional Services/ Consultation			
No.	Year	Title	Authority
1.	2017-present	Section editor	Life Sciences, Medicine and Biomedicine
2.	2018-2019	Special Issue Guest Editor	Malaysian Journal of Medicine and Health Sciences
3.	2018-2019	Editorial board member	Progress in Bioscience and Bioengineering

Student Supervision			
PhD (Main Supervisor)			
No.	Name	Title	Status

1.	Tan Ji Wei	2,4,6-Trihydroxy-3-Geranylacetophenone (tHGA) on IgE-Mediated Mast Cell Degranulation	Graduated
2.	Audrey Kow Siew Foong	The Inhibitory Activity of <i>Clinacanthus nutans</i> Standardized Ethanolic Extract on IgE-Mediated Mast Cell Activation and Anaphylactic Reaction	Graduated
3.	Liew Kong Yen	Investigating the Effects of Curcumin-like Diarylpentanoid Analogues for the Treatment of Exacerbated Respiratory Disorders Caused by Rhinovirus and Influenza Virus	Graduated
4.	Chan Yee Han	Production Of Eczefoliatm For The In Vitro, In Vivo And Metabolomics Evaluations Of Its Anti- Allergic Inflammatory And Atopic Dermatitis-Mitigating Effects	Ongoing
5.	Olajide Abosede Temitope	Elucidation Of The Molecular Sensitization Profile To Blomia Tropicalis Allergens And Its Association With Clinical Symptoms Using Component Resolved Diagnosis In Different Regions Of Malaysia	Ongoing
6.	Cheah Kai Xin	Inhibition Of Human Mast Cell Tryptase By Gabexate Mesylate And Argatroban In Dengue Virus-Induced Vascular Leakage: Potential Repurposing Of Drugs For The Treatment Of Dengue	Ongoing
7.	Yang Kun	Effect Of TLR4 Small Molecule Antagonist On Methamphetamine-Induced Neuroinflammation In Combating Drug Addiction	Ongoing
8.	Zhang AiZhi	Mechanism Of CPG In Alleviating Airway Allergies Through Modulation Of Dendritic Cell Properties	Ongoing

Master with Thesis (Main Supervisor)			
No.	Name	Title	Status

1.	Wafda binti Rohhimi	In Vitro Protective Effect of Zerumbone on House Dust Mite-Induced Airway Epithelial Disruption	Graduated
2.	Chong Yi Joong	Determination of Molecular Targets and Anti-Inflammatory Effects of 2,4,6-Trihydroxy-3-Geranylacetophenone (tHGA) in Endotoxin-Induced Vascular Endothelial Dysfunction and Lethal Sepsis in Mice	Graduated

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|----|------------------------------|--|-----------|
| 3. | Chan Yee Han                 | <i>The Protective Effect of tHGA on Cell-Cell Junctional Proteins Disruption and Cellular Hyperpermeability In Lipopolysaccharides-Induced Human Umbilical Vein Endothelial Cells</i>              | Graduated |
| 4. | Vivi Nur Khalieda Mohd Kasim | <i>The Potential Therapeutic Application of tHGA as A Mast Cell Stabilizer for Atopic Dematitis-like Skin Lesions in vivo (BALB/c)</i>   | Graduated |
| 5. | Yu Chai Xin                  | <i>Computer-assisted drug discovery and in vitro study of FDA-approved drugs on human <math>\beta</math>II-tryptase inhibition for the treatment of dengue virus-induced vascular permeability</i> | Graduated |

**Attended Seminars/ Workshops/ Forums both National and International  
(Recent five year 2020-2024)**

No.	Year	Title	Organizers
1.	2024	14 <sup>TH</sup> Malaysian Symposium of Biomedical Science 2024	Universiti Putra Malaysia (UPM)
2.	2023	International PutralInnoCreative Carnival in Teaching and Learning 2023 (PICTL 2023)	Universiti Putra Malaysia (UPM)
3.	2023	International Conference on Antiviral Research (ICAR)	The International Society for Antiviral Research (ISAR)
4.	2023	36th Malaysian Society of Pharmacology and Physiology (MSPP) 2023	Malaysian Society of Pharmacology and Physiology (MSPP)
5.	2022	International PutralInnoCreative Carnival in Teaching and Learning	Universiti Putra Malaysia (UPM)
6.	2022	International University Carnival on E-Learning IUCEL 2022	Universiti Putra Malaysia (UPM)
7.	2022	DRG Webinar – Recent Discovery of Eczematous Treatment. Dermatopharmaceutic Research Group (DRG)	International Islamic University Malaysia (IIUM)
8.	2022	26th Congress of the Asian Pacific Society of Respirology (APSR 2022)	Asian Pacific Society of Respirology (ASPR)
9.	2022	International Conference on Natural Products (ICNP) 2022	Malaysian Natural Products Society (MNPS)
10.	2021	Asia Pacific Association of Asthma, Allergy and Clinical Immunology (APAAACI) 2021 International Conference	Asia Pacific Association of Asthma, Allergy and Clinical Immunology (APAAACI)
11.	2021	UTAR Intervarsity Science Symposium	Universiti Tunku Abdul Rahman (UTAR)
12.	2020	International Symposium on Applied Engineering and Sciences (SAES)	Universiti Putra Malaysia (UPM)
13.	2020	International PutralInnoCreative Carnival in Teaching and Learning 2020	Universiti Putra Malaysia (UPM)

<b>Intellectuals Property</b>			
<b>Patent Granted</b>			
<b>No.</b>	<b>Date</b>	<b>Patent No.</b>	<b>Name</b>

1.

2.

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

- |    |           |                 |   |
|----|-----------|-----------------|---|
| 1. | 2.8.2012. | PI 2012 0034 91 | Use of curcumin analogue BHMC in the treatment of endothelial dysfunction and related disorders |
| 2. | 26.4.2017 | PI20 1670 2942  | 2,4,6-Trihydroxy-3-Geranylacetophenone For Use As A Mast Cell Stabilizer”                       |