

LATIFAH MUNIRAH BAKAR

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Senior Lecturer

School of Biology, Faculty of Applied Sciences, UiTM Shah Alam

Certified Professional Technologist (Biotechnology)

MBOT - Malaysia Board of Technologists

Industrial Training Coordinator

AS257 BSc Applied Microbiology, Faculty of Applied Sciences, UiTM Shah Alam

Adjunct Research Fellow

IIUM Molecular & Cellular Biology Research Cluster (iMoleC), International Islamic University Malaysia



QUALIFICATIONS AND EDUCATIONAL BACKGROUND

HIGHER EDUCATIONAL BACKGROUND				
NO	INSTITUTION	QUALIFICATION	SCHOLARSHIP	DATE AWARDED
1	Kulliyyah of Allied Health Science, International Islamic University Malaysia	Doctor of Philosophy in Health Sciences (Microbiology & Biochemistry) PhD Thesis: Tumour Suppressor p73 β -Loaded PLGA-Chitosan Nanoparticles: A Non-Viral Gene Delivery System for Oral Squamous Cell Carcinoma Therapy. Main Supervisor: Assoc. Prof. Dr. Solachuddin Jauhari Arief Ichwan	Ministry of Higher Education Malaysia (SLAB)	12 Nov 2021
2	Faculty of Dentistry, University Malaya	Masters (Hons) in Dental Science (Oral Microbiology) MDS thesis: The Effect of Eugenol on The Integrity of Cell Wall Structure of <i>Candida Albicans</i> . Main Supervisor: Prof. Dr. Wan Himratul Aznita Wan Harun	Ministry of Higher Education Malaysia (SLAB)	28 May 2015
3	Kulliyyah of Science, International Islamic University Malaysia	Bachelor (Hons) in Biotechnology (Environmental) Final Year Project: The Phytoplankton Diversity of Kuantan Estuary. Main Supervisor: Prof. Dr. Ahmed Jalal Khan Chowdhury	Yayasan Pahang	30 July 2010

ACADEMIC WORK EXPERIENCE

ACADEMIC POSITION			
NO	DATE	POSITION	INSTITUTION
1	01/08/22 to Present	Senior Lecturer	School of Biology, Faculty of Applied Sciences, Universiti Teknologi MARA (UiTM)
2	12/04/11 to 21/07/21	Academic Trainee	Kulliyah of Dentistry, International Islamic University Malaysia

RESEARCH/ADMINISTRATIVE POSITION			
NO	DATE	POSITION	INSTITUTION
1	18/01/22 to Present	Adjunct Research Fellow	IIUM Molecular & Cellular Biology Research Cluster (iMoleC), International Islamic University Malaysia
2	15/05/22 to 30/07/22	Postdoctoral Researcher	Faculty of Industrial Biotechnology, Universiti Malaysia Pahang
3	21/01/16 to 12/11/21	Researcher	Kulliyah of Allied Health Science, International Islamic University Malaysia
4	12/04/11 to 28/05/15	Researcher	Faculty of Dentistry, University Malaya
5	01/09/10 to 30/03/11	Research Assistant	Kulliyah of Science, International Islamic University Malaysia
6	01/07/10 to 30/08/10	Administration Assistant (Research Management Centre)	Research & Innovation Centre, International Islamic University Malaysia
7	02/05/10 to 30/06/10	Research Assistant	Kulliyah of Science, International Islamic University Malaysia
8	01/02/10 to 30/04/10	Research Assistant	Kulliyah of Medicine, International Islamic University Malaysia

RESEARCH GRANTS

RESEARCH PROJECTS/GRANTS						
No	Title	Role	Level/ Collaboration	Sponsor body	Amount (RM)	Year/ Status
1	The Effect of Eugenol on the Cell Membrane of <i>Candida albicans</i> ; PPP_2013.	Leader	Inter-University / UM	UM Research Grant	18, 200	2014 Completed

PUBLICATIONS

JOURNAL								
No	Author(s)	Title of Paper	Journal Name	Citation Index	IF/Q	Year	Vol (Series no.)	Page
1	M. Arshad, S. A. Kamaruddin, K. N. Abd Aziz, A. Suhail, M. A. H. Khazali, M. A. Zulkffle, A. Rifhan Hashim, L. M. Bakar , M. Z. Abdullah	Quantification Of Chlorophyll Content in Leaves of Avicennia Germinans, Laguncularia Racemosa, Durio Zibethinus, Garcinia Mangostana, Spinacia Oleracea, Piper Betle, Piper Sarmentosum and Centella Asiatica	International Journal Of Innovation and Industrial Revolution (IJIREV)	Mycite		2023	5 (14)	125-132
2	Ali, A., Samah A.A., Bernd, G., Bakar, L.M. , Doolaanea, A.A.,	Liposomes or Extracellular Vesicles: A Comprehensive Comparison of Both Lipid Bilayer Vesicles for Pulmonary Drug Delivery	Polymers	Web of Science	Q1	2023	15(2)	318
3	Abdullah, M.Z, Bakar, L.M , Othman N., Abdull Rasad, M. S. B., Bakhtiar, M.T. & Ichwan, S.J.A.	Anti-cancer Activities of β -mangostin Against Oral Squamous Cell Carcinoma	Journal of International Dental and Medical Research	Scopus	Q3	2022	15(1)	81-87
4	Abdullah, M.Z, Bakar, L.M , Ichwan, S.J.A, Othman N & Bakhtiar, M. T.	Molecular docking study of naturally derived β -mangostin with antiapoptotic Bcl-2 proteins toward oral cancer treatment	ESTEEM Academic Journal	ACI, MyCite		2022	1	128-138
5	Bakar, L.M. , Abdullah, M.Z., Doolaanea, A.A., Ichwan, S.J.A.	PLGA-Chitosan nanoparticle-mediated gene delivery for oral cancer treatment: A brief review	Journal of Physics: Conference Series.	Scopus	Q4	2017	884(1)	
6	Latifah-Munirah, B. , Himratul-Aznita, W. H., & Mohd Zain, N.	Eugenol, an essential oil of clove, causes disruption to the cell wall of Candida albicans (ATCC 14053)	Frontiers in Life Science	Scopus	Q3	2015	8(3)	231-240

7	Omar, M. N., Shaban, N., Bakar, L. M. , & Zuberdi, A. M.	Microbial Transformation of Clarias gariepinus Oil by Psuedomonas aeruginosa.	Oriental Journal of Chemistry	Scopus	Q3	2014	30(3)	1147- 1151
8	Omar, M. N., Shaban, N., Bakar, L. M. , & Zuberdi, A. M.	Biotransformation of ω -fatty acid from Clarias gariepinus using Psuedomonas aeruginosa.	Innova Ciencia	Scopus	Q4	2012	4(6)	82-88

INTELLECTUAL POPERTIES

INTELLECTUAL PROPERTIES					
No	Title of Invention	Role	Type of Intellectual Property Rights	Registration No	Year
1	Tumour Suppressor p73 β -Loaded PLGA- Chitosan Nanoparticles: A Non-Viral Gene Delivery System for Oral Squamous Cell Carcinoma Therapy	Leader	Copyright	LY202159871	2021

PROFESSIONAL SERVICES

INVITED SPEAKER / ENGAGEMENT WITH INDUSTRIES AND COMMUNITIES					
No	Title/ Event	Role	Level	Venue	Date/Year
1	Asia International Innovation Exhibition AIIINEX 2021	Jury	International	Online	12-14/09/21

SUPERVISION OF STUDENTS

SUPERVISION (UNDERGRADUATE: BACHELOR)						
No	Role	Year Complete	Name of Student	Course/ Institution	Project Title/Note	Status
1	Supervisor	2024	Mohamad Azhar Bin Abd Karim	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antifungal Activities of <i>Dryobalanops Aromatica</i> Towards <i>Candida Albicans</i> and <i>Candida Parapsilosis</i>	On going
2	Supervisor	2024	Anis Qistina Binti Che Abd Azizi	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Biochemical Properties of <i>Dryobalanops Aromatica</i>	On going
3	Supervisor	2024	Fatin Nursyahirah binti Nasruddin	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antibacterial Activities of <i>Dryobalanops Aromatica</i> Towards <i>Clostridium</i> Species	On going
4	Supervisor	2024	Azhani Syahirah Binti Armin	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antibacterial Activities of <i>Dryobalanops Aromatica</i> Towards <i>Staphylococcus Epidermis</i> and <i>Staphylococcus Areus</i>	On going
5	Supervisor	2024	Farah An-Nisa binti Mohd Kassim	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antibacterial Activities of <i>Dryobalanops Aromatica</i> Towards <i>Pseudomonas Aeruginosa</i> And <i>Escherichia Coli</i> .	On going
6	Supervisor	2024	Nur Shasha Iwani Binti Mohd Isa	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Molecular Docking Study of Compounds from <i>Dryobalanops Aromatica</i> as The Anti-MRSA Agent.	On going
7	Supervisor	2024	Nurin Jazlina binti Hafizal	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	<i>Dryobalanops Aromatica</i> : A Potential Antimicrobial Agent	On going
8	Supervisor	2024	Lily Sofea	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antimicrobial Activity of <i>Azadirachta indica</i> : A Review.	On going

9	Supervisor	2024	Norhaziqah	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antimicrobial Activity of Ginger: A Review.	On going
10	Supervisor	2023	Adam bin Azmihan	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Molecular docking studies of phytochemicals from <i>Azadirachta indica</i> trehalose-6 phosphate phosphatases of pathogenic microbes.	Completed
11	Supervisor	2023	Nur Afiqah binti Mohd Azali	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antimicrobial Activity of Citrus Lemon Against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> .	Completed
12	Supervisor	2023	Nurul Anis binti Johari	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Molecular Docking Studies of Phytochemicals from <i>Tumeric</i> against Trehalose-6-Phosphate Phosphatases of Pathogenic Microbes	Completed
13	Supervisor	2023	Nur'Alin Syahhmina binti Hashim	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antimicrobial Activity of Turmeric (<i>Curcuma longa</i>) against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> .	Completed
14	Supervisor	2023	Nurul Husna binti Abdul Razak	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Dishwasher Sponge Act as Reservoir of Pathogenic Gram-Negative Bacteria	Completed
15	Supervisor	2023	Yusuf bin Anfal	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antimicrobial Activity of Neem Plant (<i>Azadirachta indica</i>) against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>	Completed
16	Supervisor	2023	Nur Hatesha Binti Yaacub	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	The Use of Hibiscus flower extract in the production of antibiotics: A Review	Completed

17	Supervisor	2023	Farah Najihah Binti M Mazlan	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Antibacterial activity of Aloe vera extract against <i>S.aureus</i> & <i>Pseudomonas aeruginosa</i>	Completed
18	Supervisor	2023	Nur Dini Zahirah Binti Azahar	Applied Microbiology, Faculty of Applied Science, UiTM Shah Alam	Biodegradation of Dairy Wastewater and Sludge by Using Microbial Isolates	Completed
19	Supervisor	2023	Nisa Karmila binti Kamarulzaman	Biomolecular Science, Faculty of Applied Science, UiTM Shah Alam	Isolation and Identification of microbiota from Cincalok	Completed
20	Supervisor	2023	Azalea Marshilla bt Ismail	Biomolecular Science, Faculty of Applied Science, UiTM Shah Alam	Isolation and Identification of microbiota from Budu	Completed
21	Co-Supervisor	2022	Asniza Zul Azman	Marine Technology, Faculty of Applied Science, UiTM Arau	The Effect of Different Extraction Solvents on the Antioxidants, Flavanoid and Phenolic Content of Mangrove Species; <i>Avicennia Alba</i> , <i>Avicennia Marina</i> and <i>Nypa Fruiticans</i> in Kuala Perlis.	Completed
22	Co-Supervisor	2022	Nur Iman Kamarudin Azhar	Marine Technology, Faculty of Applied Science, UiTM Arau	Light Treatment and Quantification of Photosynthetic Pigments of Seagrapes (<i>Caulerpa Lentillifera</i> and <i>Caulerpa Racemosa</i>) in Malaysia.	Completed
23	Co-Supervisor	2022	Nur Hidayatul Jannah Binti Mizi	Marine Technology, Faculty of Applied Science, UiTM Arau	Antibacterial, Total Chlorophyll and Carotenoid of Different Extracts of <i>Avicennia Alba</i> , <i>Avicennia Marina</i> and <i>Nypa Fruticans</i> .	Completed

PROFESSIONAL AFFILIATIONS/ASSOCIATIONS

Name of Professional Body	Membership
Malaysia Board of Technology (Professional Technologist)	Dec 2022 – Present
Malaysian Society for Biochemistry and Molecular Biology (MSBMB)	Dec 2021 - Present
National Association of Underwater Instructors (NAUI)	Sep 2010 - Present

SKILLS & PROFICIENCY

Digital Educational Tools	Level
Canva	Advanced
Padlet	Advanced
Blend Space	Advanced

Research Software	Level
Atlas.ti	Advanced
Mendeley	Advanced
Minitab	Advanced
Molecular Docking	Advanced

Scuba Diving License	Level
Open Water	Completed
Advanced Scuba Diver	Completed

Sports	Level
Netball	National (University Representative)
Futsal	National (University Representative)
Badminton	National (University Representative)

Outdoor Activities	Achievements
Hiking	Gunung Kinabalu, Sabah

Language	Level of Spoken & Written
English	Advanced
Malay	Advanced
Arabic	Basic
