

CURRICULUM VITAE



A. PERSONAL DETAILS			
Full Name	Sharifah Alawieyah Binti Syed Mortadza		Title: Dr.
MyKad No.	Citizenship Malaysia	Race Malay	Gender Female
Designation	Senior Lecturer	Date of Birth	15 June 1989

Current Address	Department/Faculty	Email Address
No. 1, Jalan Serene 1/8, Serene Height, 43500 Semenyih, Selangor Tel: 011-11483805	Jabatan Biokimia, Fakulti Bioteknologi dan Sains Biomolekul Tel: Fax:	E-mail: s_alawieyah@upm.edu.my URL: H/P: 011-11483805

B. ACADEMIC QUALIFICATION			
<i>Certificate / Qualification obtained</i>	<i>Name of School / Institution</i>	<i>Year obtained</i>	<i>Area of Specialization</i>
Bachelor of Science	Michigan State University, USA	2012	Biochemistry and Molecular Biology
PhD	University of Leeds, UK	2017	Biomedical Science

C. LANGUAGE PROFICIENCY					
Bahasa / Language	Poor (1)	Moderate (2)	Good (3)	Very good (4)	Excellent (5)
English					/
Bahasa Melayu					/
Chinese	/				
Arabic			/		
Lain-lain (<i>other</i>):					

D. SCIENTIFIC EXPERIENCE AND SPECIALISATION				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Journal of Infectious Disease and Travel Medicine	Editor Board	2022	-	Immunology
Malaysian Society for Biochemistry & Molecular Biology	Reviewer	2022	-	Neuroscience
Asia Pacific Journal of Molecular Biology and Biotechnology	Reviewer	2022	-	Immunology
Frontier in Pharmacology	Editor Board	2023	-	Neuroscience
Persatuan Sains Protein Malaysia	AJK	2023	-	Molecular Biology
Institute For Engineering Research and Publications (IFERP)	Member	2023	-	Neuroscience
Malaysian Society of Neuroscience	Member	2024	-	Neuroscience

E. EMPLOYMENT				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Michigan State University, USA	Tutor	School of Biochemistry and Biotechnology	2010	2011
University of Malaya, Malaysia	Research Assistant	School of Cellular Biology, Faculty of Science	2012	2013
University of Leeds, UK	Teaching assistant	School of Molecular and Cell Biology, Faculty of Biological Science	2014	2017
Universiti Putra Malaysia	Senior Lecturer	Department of Biochemistry, Faculty of Biotechnology and Molecular Science	2018	Current

F. HONOURS AND AWARDS				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	Undergraduate Student Scholarship	Jabatan Perkhidmatan Awam, Malaysia	National	2007
	Graduate Student Fellowship	Universiti Putra Malaysia	National	2013
<i>Non-Academic Awards</i>				
<i>Awards of Merit</i>	Best Poster	BSN Health	International	2019

	Award	Analyses, Innovation LTD Inc, Turkey		
	Golden Rose Young Investigator Award	BSN Health Analyses, Innovation LTD Inc, Turkey	International	2019
	Best Paper Presentation Award	IFERP	International	2023

G. CONFERENCE ATTENDED

Name	Location	Type	Year
5 th International Ion Channel Conference (IICC 2015)	Luzhou China	Poster	2015
Joint Meeting of the American Physiological Society and The Physiological Society, Convention Centre	Dublin, Ireland	Poster	2016
Postgraduate Symposium, Faculty of Biological Science	University of Leeds	Oral	2016
Postgraduate Symposium, Faculty of Biological Science	University of Leeds	Oral	2017
4 th International Brain Research School	Isparta, Turkey	Oral	2022
Neuroscience - Breach the Research Barrier (Neuro-BRB)	UPM Serdang	Participant	2023
6 th International Conference On Advanced Science, Education, Social Science, Technology And Management (ICASETM-23)	Bali, Indonesia	Oral	2023
Biotech Horizon 2024 International Conference	Universiti Putra Malaysia	Participant	2024
6 th Worldwide Genomics, Neuroscience, Therapeutics & Data Innovation Summit	Athens, Greece	Oral	2024

H. LIST OF PUBLICATION (H INDEX: 12)

Journal	
	Syed Mortadza, S.A., Mohamad Zahir, N. Z., Chew, T.W., Jiang, L.H. The PKC/NOX/ROS and PYK2/MEK/ERK/PARP signalling pathways drive TRPM2 channel activation induced by non-cytolytic oxidative stress in microglial cells. <i>Redox Report</i> , 1 (30), 1–12. 2025 (IF 7.94)
	Rathakrishnan, S., Hazanol, I. N., Dali, M. H. I., Sha'fie, M. S. A., Ahmad, S., Alitheen, N. B., & Mortadza, S. A. S. Signalling Mechanism in TRPM2-dependent Copper- induced HT22 Cell Death. <i>Journal of Biochemistry, Microbiology and Biotechnology</i> , 11(2), 11–19. 2023
	Kumar, M.R.; Azizi, N.F.; Yeap, S.K.; Abdullah, J.O.; Khalid, M.; Omar, A.R.; Osman, M.A.; Leow, A.T.C.; Mortadza, S.A.S.; Alitheen, N.B. Clinical and Preclinical Studies of Fermented Foods and Their Effects on Alzheimer's

	Disease. <i>Antioxidants</i> 11, 2022 (IF 7.675)
	Azizi, N.F.; Kumar, M.R.; Yeap, S.K.; Abdullah, J.O.; Khalid, M.; Omar, A.R.; Osman, M.A.; Mortadza, S.A.S.; Alitheen, N.B. Kefir and Its Biological Activities. <i>Foods</i> 10: 6, 1210. 2021 (IF 5.561)
	Sha'fie, M. S. A., Rathakrishnan, S., Hazanol, I. N., Izzazuddin Dali, M. H., Khayat, M. E., Ahmad, S., Hussin, Y., Alitheen, N. B., Jiang, L. H., Syed Mortadza, S. A. Ethanol induces microglial cell death via the NOX/ROS/PARP/TRPM2 signalling pathway. <i>Antioxidant</i> 9: 12, 2020 (IF 7.675)
	Wang, L., Wei, L., Ding, R., Feng, Y., Li, D.L., Li, C., Malko, P., Syed Mortadza, S.A., Wu, W.D., Yin, Y, Jiang, L.-H. Alzheimer's and age-related brain pathologies by PM2.5 exposure: perspective on the role of oxidative stress and TRPM2 channel. <i>Frontiers in Physiology</i> 11: 155, 2020 (IF 4.134)
	P. Malko, S.A. Syed Mortadza, J. McWilliam, L.H. Jiang. TRPM2 channel in microglia as a new player in neuroinflammation associated with a spectrum of central nervous system pathologies. <i>Frontiers in Pharmacology</i> 10: 239, 2019 (IF 3.845)
	LH Jiang, X Li, SAS Mortadza, M Lovatt, W Yang The TRPM2 channel nexus from oxidative damage to Alzheimer's pathologies: An emerging novel intervention target for age-related dementia <i>Ageing Research Reviews</i> , 47, 67-79 (IF: 8.9)
	Mortadza SS, Sim JA, Veronika N, Jiang LH A critical role of TRPM2 channel in A β 42-induced microglial activation and generation of tumour necrosis factor- α <i>Glia</i> , 66, 2018 (IF: 6.4)
	Wei L*, Mortadza SS*, Jin Yan, Wang L, Yin Y, Li C, Li D, Lu C, Roger S, Jiang LH ATP-activated P2X7 receptor in the pathophysiology of mood disorders and as an emerging target for the development of novel antidepressant therapeutics <i>Neuroscience & Biobehavioral Reviews</i> 25, 2018 (IF: 8.3)
	Wei L*, Mortadza SA*, Jiang LH. Melastatin-related transient receptor potential 2 channel in Ab42-induced neuroinflammation: implications to Alzheimer's disease mechanism and development of therapeutics <i>Neural Regeneration Research</i> 13, 2018 (IF: 2.3)
	Mortadza SS, Sim JA, Stacey M, Jiang LH Signalling mechanisms mediating Zn ²⁺ -induced TRPM2 channel activation and cell death in microglial cells <i>Scientific Reports</i> 7, 2017 (IF: 5.2)
	Khalid M, Brisson L, Tariq M, Hao Y, Guibon R, Fromont G, Syed Mortadza SA, Mousawi F, Manzoor S, Roger S, Jiang LH Carcinoma-specific expression of P2Y ₁₁ receptor and its contribution in ATP-induced purinergic signalling and cell migration in human hepatocellular carcinoma cells <i>Oncotarget</i> 8, 2017 (IF: 5.16)
	Mortadza SAS, Wang L, Li D, Jiang LH TRPM2 channel-mediated ROS-sensitive Ca(2+) signaling mechanisms in immune cells <i>Frontiers in Immunology</i> 6, 2015 (IF: 6.4)
Books/Monographs	
Chapter in book	Jiang LH and Mortadza SS Transient receptor potential cation channel subfamily M member 2 Encyclopedia of Signaling <i>Molecules, 2nd Edition</i> , 2017
Proceedings	Syed Mortadza, S.A. TRPM2-associated signalling mechanisms in copper-induced brain microglial phenotypic transition. 6 th International Conference on Advanced Science, Education, Social Science, Technology and Management (ICASETM-23). 2023. Bali, Indonesia. Organized by Institute for Educational

	Research and Publication (IFERP)
	Syed Mortadza, S. A. Copper-induced microglial activation involves PKC/NOX/PARP-1/TRPM2 signalling pathway. 6 th Worldwide Genomics, Neuroscience, Therapeutics & Data Innovation Summit: Neuroscience and Neurodegenerative Disorders. 2024. Athens, Greece.
<i>Other publications</i>	
<i>Computer software</i>	

I. PAST RESEARCH PROJECT					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
GP-IPM/2019/9679900	A critical role of transient receptor potential melastatin 2 (TRPM2) in neurodegeneration induced by AB42-stimulated microglial inflammatory response.	Project leader	2019	UPM	Completed
FRGS/1/2020/SKK06/UPM/02/18	TRPM2 channel mediates neuroinflammation through the alteration of intracellular Zn ²⁺ homeostasis in reserpine-induced depression	Project leader	2020	MOHE	Completed
FRGS/1/2020/STG02/UPM/02/13	CD133 checkpoint blockade and anti-tumor immunity modulation to suppress stemness in glioblastoma stem cell: A novel dual-therapeutic strategy	Member	2020	MOHE	Ongoing
GP-IPS/2024/ 9785400	<i>In silico</i> and <i>in vitro</i> studies of carpaine from carica papaya <i>linn.</i> leaves as a potential therapeutic agent against Alzheimer's disease	Project leader	2023	UPM	Ongoing