CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI ***(Personal Details)***			
Nama Penuh *(Full Name)*	**Muhamad Hafiz Abd Rahim**		Gelaran *(Title):* **Dr**.
No. MyKad / No. Pasport *(Mykad No. / Passport No.)* **860819-XX-XXXX**	Warganegara *(Citizenship)* **Malaysia**	Bangsa *(Race)* **Malay**	Jantina *(Gender)* **Male**
Jawatan *(Designation)*	**Senior Lecturer**	Tarikh Lahir *(Date of Birth)*	**19 August 1986**

Alamat Semasa *(Current Address)*	Jabatan/Fakulti *(Department/Faculty)*	E-mel dan URL *(E-mail Address and URL)*
No XX Jalan P11F/14, Presint 11, 62300 Putrajaya	Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia	Email: muhdhafiz@upm.edu.my URL: H/P:012-2787895

B. KELAYAKAN AKADEMIK ***(Academic Qualification)***			
Nama Sijil / Kelayakan *(Certificate / Qualification obtained)*	Nama Sekolah/ Institusi *(Name of School / Institution)*	Tahun *(Year obtained)*	Bidang pengkhususuan *(Area of Specialization)*
Ph.D.	The University of Sydney, Australia	2015	Bioprocess
B.Sc. (Hons)	University of Adelaide, Australia	2009	Biotechnology

C. KEMAHIRAN BAHASA *(Language Proficiency)*					
Bahasa / *Language*	Lemah *Poor (1)*	Sederhana *Moderate (2)*	Baik *Good (3)*	Amat Baik *Very good (4)*	Cemerlang *Excellent (5)*
English				√	
Bahasa Melayu					√

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN ***(Scientific experience and Specialization)***				
Organization	*Position*	*Start Date*	*End Date*	*Expertise*

E. PEKERJAAN ***(Employment)***				
Majikan / *Employer*	Jawatan / *Designation*	Jabatan / *Department*	Tarikh lantikan / *Start Date*	Tarikh tamat / *Date Ended*
Universiti Putra Malaysia	Senior Lecturer	Food Science, Faculty of Food Science and Technology	September, 2015	Present
Universiti Putra Malaysia	Tutor	Food Science, Faculty of Food Science and Technology	January, 2010	September 2015
Universiti Pendidikan Sultan Idris	Tutor	Biology Department, Faculty of Science and Mathematics	July, 2009	December, 2009
Universiti Putra Malaysia	Graduate Research Assistant	Institut Biosains, Universiti Putra Malaysia	January, 2009	July, 2009

F. ANUGERAH DAN HADIAH *(Honours and Awards)*				
Name of awards	*Title*	*Award Authority*	*Award Type*	*Year*
Academic Awards	Skim Latihan Akademik Bumiputra (SLAB)	Ministry of Higher Education	National	2006-2008
Academic Awards	Honour's scholarship	University of Adelaide	International	2008
Academic Awards	Skim Pelajar Cemerlang MARA	Ministry of Education	National	2004-2008

G. PROJEK PENYELIDIKAN TERDAHULU *(Past Research Project)*					
Project No.	*Project Title*	*Role*	*Year*	*Source of fund*	*Status*
GPB-	Differentiation of sheep induced pluripotent stem cells into cultured meat: proof of concept	Member	*2022*	Universiti Putra Malaysia	
IPS-9740400	Development and Characterization of Coconut Milk-Based Yogurt Alternative	Principal Investigator	*2022*	Universiti Putra Malaysia	Ongoing

	from Different Breeds of Malaysian Coconut and Novel LAB Isolated from Local Fermented Lassi				
-	Production Of Meat Analogues From Plant-Based Protein	Member	*2022*	Private	Ongoing
FRGS-5540455	The Potential of Fermented Food as Biofertiliser	Principal Investigator	*2020-2022*	Ministry of Higher Education	Ongoing
IPM-9595400	Quality Attributes Profiling and Shelf-Life Improvement of Red Sugarcane (*Saccharum Officinarum L.*)	Principal investigator	*2018-2020*	Universiti Putra Malaysia	Finished
-	The Production of Lovastatin From *Aspergillus terreus*	Investigator	*2011-2015*	The University of Sydney	Finished
-	The Expression of Intracellular Signaling Molecules During Osteoclast Development	Investigator	*2007-2008*	University of Adelaide	Finished

H. PUBLICATIONS

No.	Publication	Impact factor
1.	Gengan, G., Zaini, N. S. M., Saari, N., Hussin, A. S. M., Jaafar, A. H., Hasan, H., Lim, E. J., Wan-Mohtar, W. A. A. Q. I., & Rahim, M. H. A. (2024). Nutritional and therapeutic benefits of coconut milk and its potential as a plant-based functional yogurt alternative: a review. Food Science and Human Wellness. https://doi.org/10.26599/FSHW.2024.9250004	**7.0**
2.	Mohd Zaini, N. S., Hasan, H., Abbas, A., Montoya, A., & Abd Rahim, M. H. (2024). Impact of elicitors (alginate, Bacillus cereus, and cholesterol) on the production of secondary metabolite (lovastatin, (+)-geodin, and sulochrin) by Aspergillus terreus ATCC 20542 during submerged fermentation. Biocatalysis and Agricultural Biotechnology, 55, 102974. https://doi.org/10.1016/j.bcab.2023.102974	**4**
3.	Lee, Z., Lim, J. A., Harikrishna, J. A., Islam, T., Abd Rahim, M. H., & Yaacob, J. S. (2024). Regulation of Plant Responses to Temperature Stress: A Key Factor in Food Security and for Mitigating Effects of Climate Change. International Journal of Plant Production. https://doi.org/10.1007/s42106-024-00282-7	**2.5**
4.	Zaini, N. S. M., Ng, R. N., Abedelazeez, K. J. D., Idris, H., & Abd Rahim, M. H. (2024). The Nutritional, Physico-chemical, and Antioxidant Changes during the Production of Soursop Vinegar Influenced by Yeast and Aeration. Pertanika Journal of Tropical Agricultural Science, 47(1).	**-**
5.	Khan, R., Brishti, F. H., Arulrajah, B., Goh, Y. M., Abd Rahim, M. H., Karim, R., Hajar-Azhari, S., Kin Kit, S., Anwar, F., & Saari, N. (2024). Mycoprotein as a meat substitute: production, functional properties, and current challenges-a review. International Journal of Food Science & Technology, 59(1), 522–544.	**3.3**

	https://doi.org/https://doi.org/10.1111/ijfs.16791	
6.	Nor A'azizam, N. M., Chopra, S., Guleria, P., Kumar, V., Abd Rahim, M. H., & Yaacob, J. S. (2024). Harnessing the potential of mutation breeding, CRISPR genome editing, and beyond for sustainable agriculture. Functional & Integrative Genomics, 24(2), 44. https://doi.org/10.1007/s10142-024-01325-y	**2.9**
7.	Mohsin, A. Z., Norsah, E., Marzlan, A. A., Abd Rahim, M. H., & Meor Hussin, A. S. (2024). Exploring the applications of plant-based coagulants in cheese production: A review. International Dairy Journal, 148, 105792. https://doi.org/https://doi.org/10.1016/j.idairyj.2023.105792	**3.1**
8.	Mohsin, A. Z., Hui Ci, N., Ismail, A. R., Marzlan, A. A., Abd Rahim, M. H., & Meor Hussin, A. S. (2023). Gouda cheese with different coagulants and types of milk: physicochemical, biochemical, microbiological, and sensory properties. Journal of Food Measurement and Characterization. https://doi.org/10.1007/s11694-023-02218-7	**3.4**
9.	Wan-Mohtar, W. A. A. Q. I., Khalid, N. I., Rahim, M. H. A., Luthfi, A. A. I., Zaini, N. S. M., Din, N. A. S., & Mohd Zaini, N. A. (2023). Underutilized Malaysian Agro-Industrial Wastes as Sustainable Carbon Sources for Lactic Acid Production. Fermentation, 9(10). https://doi.org/10.3390/fermentation9100905	**3.7**
10.	Khalid, N. I., Ab Aziz, N., Noh, T. U., & Abd Rahim, M. H. (2023). Alkaline electrolyzed water AS a potential green degreaser for meat processing stainless steel surface. Journal of Food Process Engineering, 46(12), e14465. https://doi.org/https://doi.org/10.1111/jfpe.14465	**3**
11.	Zaini, N. S. M., Mansor, N., Yusoff, M. M., & Rahim, M. H. A. (2023). Physico-chemical and Sensory Properties of Red Palm Oil-based Ice Cream Using Maltodextrin or Modified Starch as Stabilizers. Journal of Oleo Science, 72(9), 811–818. https://doi.org/10.5650/jos.ess23036	**1.628**
12.	Vayabari, D. A. G., Ilham, Z., Md Saad, N., Usuldin, S. R. A., Norhisham, D. A., Abd Rahim, M. H., & Wan-Mohtar, W. A. A. Q. I. (2023). Cultivation Strategies of Kenaf (Hibiscus cannabinus L.) as a Future Approach in Malaysian Agriculture Industry. Horticulturae, 9(8). https://doi.org/10.3390/horticulturae9080925	**3.1**
13.	Mohd Zaini, N. S., Khudair, J. D. A., Mohsin, Z. A., Jitming Lim, E., Minato, W., Idris, H., Yaacob, J. S., & Abd Rahim, M. H. (2023). Biotransformation of food waste into biofertilisers through composting and anaerobic digestion: a review. Plant, Soil and Environment, 69(9), 409–420. https://pse.agriculturejournals.cz/artkey/pse-202309-0001.php	**2.2**
14.	Mohd Zaini, N. S., Khudair, A. J. D., Gengan, G., Abd Rahim, M. H., Meor Hussin, A. S., Idris, H., & Mohsin, A. Z. (2023). Enhancing the Nutritional Profile of Vegan Diet: A Review of Fermented Plant-Based Milk as a Nutritious Supplement. Journal of Food Composition and Analysis, 105567. https://doi.org/https://doi.org/10.1016/j.jfca.2023.105567	**4.3**
15.	Mohd Fazla, S. N., Marzlan, A. A., Meor Hussin, A. S., Abd Rahim, M. H., Madzuki, I. N., & Mohsin, A. Z. (2023). Physicochemical, microbiological, and sensorial properties of chickpea yogurt analogue produced with	**-**

	different types of stabilizers. Discover Food, 3(1), 19. https://doi.org/10.1007/s44187-023-00059-3	
16.	Gengatharan, A., & Abd Rahim, M. H. (2023). The application of clove extracts as a potential functional component in active food packaging materials and model food systems: A mini-review. Applied Food Research, 3(1), 100283. https://doi.org/https://doi.org/10.1016/j.afres.2023.100283	**-**
17.	Abedelazeez, Khudair. J. D., Nurul Solehah, M. Z., Jaafar, A. H., Meor Hussin, A. S., Wan-Mohtar, W. A. A. Q. I., & Abd Rahim, M. H. (2023). Production, Organoleptic, and Biological Activities of Belacan (Shrimp Paste) and Pekasam (Fermented Freshwater Fish), the Ethnic Food from the Malay Archipelago. Sains Malaysiana, 52(4), 1217–1230. http://doi.org/10.17576/jsm-2023-5204-14	**0.8**
18.	Nurul Aqilah Mohd Zaini, Nur Asyiqin Zahia Azizan, Muhamad Hafiz Abd Rahim*, Adi Ainurzaman Jamaludin, António Raposo, Siva Raseetha, Renata P. Zandonadi, Mona N. Bin Mowyna, Dele Raheem, Linda H. Lho*, Heesup Han* and Wan Abd Al Qadr Imad Wan-Mohtar*, A Narrative Action on the Battle against Hunger using Mushroom, Peanut, and Soybean-based Wastes (2023), Front. Public Health, 11(2023), doi: 10.3389/fpubh.2023.1175509	**6.461**
19.	Faizal, F. A., Ahmad, N. H., Yaacob, J. S., Abdul-Halim Lim, S., Abd Rahim, M. H., Yaacob, J. S., & Abd Rahim, M. H. (2023). Food processing to reduce anti-nutrients in plant-based food. International Food Research Journal, 30(1), 25–45. https://doi.org/https://doi.org/10.47836/ifrj.30.1.02	**1.169**
20.	Suganisha, S., Mohd Zaini, N. S., Abd Rahim, M. H., & Ahmad, N. H. (2023). Insects and worms as an alternative protein source in the halal food industry. In Innovation of Food Products in Halal Supply Worldwide.	**Book Chapter**
21.	Rahim, M. H. A., Hazrin-Chong, N. H., Harith, H. H., Wan-Mohtar, W. A. A. Q. I., & Sukor, R. (2023). Roles of fermented plant-, dairy- and meat-based foods in the modulation of allergic responses. Food Science and Human Wellness, 12(3), 691–701. https://doi.org/https://doi.org/10.1016/j.fshw.2022.09.002	**8.022**
22.	Mohd Zaini, N. S., Lim, E. J., Ahmad, N. H., Gengatharan, A., Wan-Mohtar, W. A. A. Q. I., & Abd Rahim, M. H. (2023). The Review of Cooking, Drying, and Green Extraction Methods on General Nutritional Properties of Mealworms and Locusts. Food and Bioprocess Technology. https://doi.org/10.1007/s11947-023-03020-5	**5.581**
23.	Mohd Zaini, N. S., Idris, H., Yaacob, J. S., Wan-Mohtar, W. A., Putra Samsudin, N. I., Abdul Sukor, A. S., Lim, E. J., & Abd Rahim, M. H. (2022). The Potential of Fermented Food from Southeast Asia as Biofertiliser. In Horticulturae (Vol. 8, Issue 2). https://doi.org/10.3390/horticulturae8020102	**2.923**
24.	Ahmad Fauzi, N. S., Abd Rahim, M. H., Abdul Majid, N., Othman, R., & Yaacob, J. S. (2022). Evaluation of the effect of jasmonic acid elicitation on composition of pigments and biological activities in green callus of	**5.005**

	neem (Azadirachta indica). In Frontiers in Sustainable Food Systems (Vol. 6). https://www.frontiersin.org/articles/10.3389/fsufs.2022.1017398	
25.	Hasan, H., Abd Rahim, M. H., Campbell, L., Carter, D., Abbas, A., & Montoya, A. (2022). Increasing Lovastatin Production by Re-routing the Precursors Flow of Aspergillus terreus via Metabolic Engineering. Molecular Biotechnology, 64(1), 90–99. https://doi.org/10.1007/s12033-021-00393-w	**2.86**
26.	Hajar-Azhari, S., Hafiz Abd Rahim, M., Razid Sarbini, S., Muhialdin, B. J., Olusegun, L., & Saari, N. (2021). Enzymatically synthesised fructooligosaccharides from sugarcane syrup modulate the composition and short-chain fatty acid production of the human intestinal microbiota. Food Research International, 149, 110677. https://doi.org/https://doi.org/10.1016/j.foodres.2021.110677	**7.425**
27.	Shin Yee, C., Sohedein, M. N. A., Poh Suan, O., Weng Loen, A. W., Abd Rahim, M. H., Soumaya, S., Ilham, Z., & Wan-Mohtar, W. A. A. Q. I. (2021). The production of functional γ-aminobutyric acid Malaysian soy sauce koji and moromi using the trio of Aspergillus oryzae NSK, Bacillus cereus KBC, and the newly identified Tetragenococcus halophilus KBC in liquid-state fermentation. Future Foods, 4, 100055. https://doi.org/https://doi.org/10.1016/j.fufo.2021.100055	**-**
28.	Wan Abd Al Qadr Imad Wan-Mohtar, Sarina Abdul Halim-Lim, Nurul Zahidah Kamarudin, Muhamad Hafiz Abd Rahim, Zul Ilham, Fruiting-body-base flour from an Oyster mushroom waste in the development of antioxidative chicken patty Journal of Food Science 85(1), August 2020	**2.479**
29.	Hajar-Azhari, S., Rahim, M. H. A., Wan-Mohtar, W. A. A. Q. I., Sarbini, S. R., & Saari, N. (2020). Novel fructooligosaccharide conversion from sugarcane syrup using a specialised enzymatic pH-stat bioreactor. Process Biochemistry, 95, 55–63. https://doi.org/https://doi.org/10.1016/j.procbio.2020.04.031	**2.952**
30.	Norhidayah Mohd Taufek, Hanis Harith, Muhamad Hafiz Abd Rahim, Wan Abd Al Qadr Imad Wan-Mohtar. Performance of mycelial biomass and exopolysaccharide from Malaysian Ganoderma lucidum for the fungivore red hybrid Tilapia (Oreochromis sp.) in Zebrafish embryo. Aquaculture Reports 17 April 2020	**2.289**
31.	Sharmilla Ashokhan, Rashidi Othman, Muhamad Hafiz Abd Rahim, Jamilah Syafawati Yaacob, Effect of Plant Growth Regulators on Coloured Callus Formation and Accumulation of Azadirachtin, an Essential Biopesticide in Azadirachta indica. March 2020 Plants 9(3):352	**2.762**
32.	Wan Nusrah Wan Mansor, Nurul Shazini Ramli, Siti Hajar Azhari, Muhamad Hafiz Abd Rahim, Effects of Different Preservation Treatments on Nutritional Profile on Juices from Different Sugar Cane Varieties Sains Malaysiana. February 2020 49(2):283-291	**0.643**
33.	Abd Rahim MH, Lim EJ, Hasan H, Abbas A.The investigation of media components for optimal metabolite production of *Aspergillus terreus* ATCC 20542. J Microbiol Methods. 2019 Sep;164:105672	**1.803**

34.	Hasan H, Abd Rahim MH, Campbell L, Carter D, Abbas A, Montoya A. Improved lovastatin production by inhibiting (+)-geodin biosynthesis in *Aspergillus terreus*. N Biotechnol. 2019 Sep 25;52:19-24	**3.739**
35.	Muhamad Hafiz Abd Rahim, Hanan Hasan, Elicia Jitming Lim, Phebe K. Samrani, Ali Abbas. Pretreatment Strategies to Improve Crude Glycerol Utilisation and Metabolite Production by *Aspergillus terreus* International Journal of Chemical Engineering 2019:1-6	**1.877**
36.	Siti Hajar-Azhari, Raudzah Shahruddin, Muhamad Hafiz Abd Rahim. The effect of heat treatment and sonication on physicochemical and colour attributes of yellow sugarcane juice. Malaysian Applied Biology 47(5):129-134	**-**
37.	Hasan H, Abd Rahim MH, Campbell L, Carter D, Abbas A, Montoya A.Overexpression of acetyl-CoA carboxylase in *Aspergillus terreus* to increase lovastatin production. N Biotechnol. 2018 Sep 25;44:64-71	**3.739**
38.	Siti Hajar-Azhari, Wan Abd Al Qadr Imad Wan-Mohtar, Safuan Ab Kadir, Muhamad Hafiz Abd Rahim, Nazamid Saari. Evaluation of a Malaysian soy sauce koji strain *Aspergillus oryzae NSK* for γ-aminobutyric acid (GABA) production using different native sugars. Food Science and Biotechnology, 2018, Volume 27, Issue 2, pp 479–488	**0.888**
39.	Rahim MHA, Hasan H, Harith HH, Abbas A. The effect of viscosity, friction, and sonication on the morphology and metabolite production from *Aspergillus terreus* ATCC 20542. Bioprocess Biosyst Eng. 2017 Dec;40(12):1753-1761	**2.371**
40.	Muhamad Hafiz Abd Rahim, Hanis H. Harith, Alejandro Montoya, Ali Abbas, Growth and lovastatin production by *Aspergillus terreus* under different carbohyrates as carbon sources, Biocatalysis and Agricultural Biotechnology, Volume 10, April 2017, Pages 379-385, ISSN 1878-8181, https://doi.org/10.1016/j.bcab.2017.04.011.	**0.76**
41.	Abd Rahim, M. H., Hasan, H., Montoya, A. and Abbas, A. (2015), Lovastatin and (+)-geodin production by *Aspergillus terreus* from crude glycerol. Eng. Life Sci., 15: 220–228. doi:10.1002/elsc.201400140	**2.168**
42.	Abd R, Hafiz M; Hasan, Hanan; Antonio, Bernadeth; Solchenbach, Sophie; Montoya, Alejandro and Abbas, Ali. The feasibility of lovastatin production from crude glycerol by using *aspergillus terreus* [online]. In: Chemeca 2012: Quality of life through chemical engineering: 23-26 September 2012, Wellington, New Zealand. Barton, A.C.T.: Engineers Australia, 2012	**-**
43.	Antonio, Bernadeth S; Abd R, Hafiz M; Solchenbach, Sophie; Montoya, Alejandro; Rollon, Analiza P; Siringan, Maria Auxilia T and Abbas, Ali. Biodiesel-derived crude glycerol for the fungal production of lovastatin [online]. In: Chemeca 2013 (41st : 2013 : Brisbane, Qld.). Chemeca 2013: Challenging Tomorrow. Barton, ACT: Engineers Australia, 2013: 657-662	**-**
44.	Rahsia Keenakan Rasa, Dewan Kosmik, Oktober 2016	**-**
45.	Diet Atkins : Baik Atau Buruk?, Dewan Masyarakat, 2017	**-**