



DR. NORHASNIDA ZAWAWI CURRICULUM VITAE

SCOPUS H-INDEX : 15, GOOGLE SCHOLAR H-INDEX : 17

Dr. Norhasnida Zawawi is a senior lecturer and food and nutrition scientist from Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia (UPM). Her administration and research responsibilities include being a member of the Working Group for Kelulut Honey (stingless bee honey) Standard under Department of Standards Malaysia, Ministry of International Trade, and Industry (MITI), Malaysia, and Vice President of the Apimondia Asia Task Group for Stingless Bee Honey Standard aiming towards a recognized food standard for stingless bee honey both nationally and internationally. With the research team at the University of Queensland, Australia, she has co-discovered trehalulose sugar (a rare disaccharide) as the main sugar available in the stingless bee honeys. Further study on isolation of trehalulose and understanding its' physiological impact on human health especially on the glucose metabolism is underway. Other current research involves investigation of the physicochemicals, antioxidant, anti-bacterial and probiotic properties of kelulut honey and bee bread produced by different meliponine bee species. Further research interests include the study of biological effects of anti-nutritional and nutritional values of kelulut by-products including bee breads and the utilization of kenaf seeds - by-product of kenaf plant, as functional ingredient in food products for sustainable food production. She was conferred as Honorary Senior Fellow of Queensland Alliance of Agriculture and Food Innovation (QAAFI), The University of Queensland, Australia since 2019 and is also a researcher at Laboratory of Halal Science, Halal Products Research Institute, UPM. Her community work involves engaging primary school students on science and research findings using the Non-Governmental Organization (NGO) platform IKRAM Academia where she is one of the current committee members.

A. BUTIR-BUTIR PERIBADI (<i>Personal Details</i>)		
Nama Penuh (<i>Full Name</i>) NORHASNIDA BINTI ZAWAWI		Gelaran (<i>Title</i>): DR.
Warganegara (<i>Citizenship</i>) MALAYSIA	Bangsa (<i>Race</i>) MALAY	Jantina (<i>Gender</i>) FEMALE
Jawatan (<i>Designation</i>) SENIOR LECTURER		
Alamat Semasa (<i>Current Address</i>)	Jabatan/Fakulti (<i>Department/Faculty</i>)	E-mel dan URL (<i>E-mail Address and URL</i>)
DEPARTMENT OF FOOD SCIENCE, FACULTY OF FOOD SCIENCE AND TECHNOLOGY, UPM 43400 UPM SERDANG, SELANGOR, MALAYSIA	DEPARTMENT OF FOOD SCIENCE, FACULTY OF FOOD SCIENCE AND TECHNOLOGY.	Email:norhasnida@upm.edu.my

B. KELAYAKAN AKADEMIK (<i>Academic Qualification</i>)			
Nama Sijil / Kelayakan (<i>Certificate / Qualification obtained</i>)	Nama Sekolah Institusi (<i>Name of School / Institution</i>)	Tahun (<i>Year obtained</i>)	Bidang pengkhususan (<i>Area of Specialization</i>)
BSc (Hons)	Universiti Kebangsaan Malaysia	2003	Food Science and Nutrition
MSc	Universiti Putra Malaysia	2007	Nutritional Science
Ph.D	University of Nottingham	2011	Nutritional Science

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

D. PENGALAMAN SAINTIFIK DAN POS PENTADBIRAN (<i>Scientific experience and Administration Posts</i>)				
<i>Organization / Committee</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise / Contribution</i>
Department of Nutritional Science, School of Biosciences, University of Nottingham, UK	Lab Demonstrator	2008	2010	Food chemistry and analysis
Clinical Medicine Laboratory, School of Medicine, University of Nottingham, Royal Derby Hospital, UK	Researcher	June 2009	June 2010	Adipose tissue explant, lipolysis ex vivo and in vivo
Full Accreditation of Bachelor of Science in Food Service Management	Audit Panel Assessor	2012	2014	Auditing of the bachelor's degree
Nutrition/Nutritional Claims/ Advertisement Committee, Ministry of Health, Malaysia	Member	2012	Ongoing	Nutritional claims and regulations
Codex National Committee on Food Labelling, Ministry Of Health, Malaysia	Member	2012	Ongoing	Food labelling and regulations
Laboratory of Molecular Biomedicine, Institute of Bioscience, UPM, Malaysia	Research Associate (Interim)	2014	October 2021	Probiotic, cell culture, nutrigenomics
Queensland Alliance of Agriculture and Food Innovation, University of Queensland, Australia.	Visiting Researcher	April 2018	December 2018	Physicochemical properties of stingless bee (Meliponine) honey
Queensland Alliance of Agriculture and Food Innovation, University of Queensland, Australia.	Honorary Senior Fellow	January 2019	December 2024	Physicochemical properties of stingless bee (Meliponine) honey

Subcommittee of Australian Native Bee Association	Member	June 2019	December 2022	Development of Australian Stingless Bee Honey National and International Standard
Stingless Bee Working Group, Standards Malaysia	Member	July 2019	Ongoing	Development of Malaysian Stingless Bee Honey National and International Standard
MoU between Universiti Putra Malaysia and The University of Queensland	Desk Officer	2020	2025	Lead collaboration projects/programmes between both universities
Technical Committee, Development of National Bee Industry, Ministry of Agriculture and Food Industries	Member	January 2021	December 2025	Advising the Ministry for Development of National Bee Industry
Laboratory of Halal Science, Halal Products Research Institute, Universiti Putra Malaysia.	Associate Researcher (Interim)	April 2021	Ongoing	Research on Halal Science (Food Quality and Food Safety)
Chemistry Laboratory, Faculty of Food Science and Technology, Universiti Putra Malaysia.	Head of Laboratory	February 2022	February 2024	Laboratory assessment
Apimondia Asia Task Group for Stingless Bee Honey Standard	Vice President	May 2023	Ongoing	Research and Documentation in Development of International Standards for Stingless Bee Honey
Frontiers in Nutrition Journal	Review Editor Board	2022	Ongoing	Scientific journal reviewer
Pertanika Journal of Tropical Agricultural Science, Universiti Putra Malaysia	Editorial Board Member	July 2023	June 2025	Assisting the lead editor to increase quality publication and impact factor of the journal.

E. AJK SAINTIFIK DAN PROFESIONAL

(Scientific and Professional Committee)

<i>Organization / Conference / Seminar Committee</i>	<i>Position</i>	<i>Year</i>
International Conference on Advances in Plant Biochemistry and Biotechnology	Poster Judge	2014
International Food Research Conference	Poster Judge	2017
International Food Research Conference	Finance Committee Member	2017
International Food Research Conference	Finance Committee Member	2019
International Symposium on Applied Engineering and Sciences	Scientific Committee Member	2021

Agriculture Technology and Food Sustainability Innovation Seminar	Judge	2021
International Congress on Bee Sciences	Scientific Committee Member	2022
CRC Press, Taylor and Francis Group	Book Proposal Reviewer	2022
International Congress on Bee Sciences	Scientific Committee Member	2023
5 th International Conference on The Medicinal Use of Honey	Scientific Committee Member	2023

F. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	Emerging Talent Award	Apitherapy Biotherapy Research Group (APIBA), University of De Los Andes, Venezuela	Bee Sciences Contribution Award	2023
	Silver Medal	Centre for Academic Development, UPM	International Putra InnoCreative Poster Competition	2022
	Excellence in Service Award	Universiti Putra Malaysia	Service	2022
	Excellence in Service Award	Universiti Putra Malaysia	Service	2021
	Excellence in Service Award	Universiti Putra Malaysia	Service	2020
	Excellence in Service Award	Universiti Putra Malaysia	Service	2019
	Honorary Senior Fellow	Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland	Conferral	2019 - 2024
	Excellence in Service Award	Universiti Putra Malaysia	Service	2016
	Excellence in Service Award	Universiti Putra Malaysia	Service	2014
	Hot Topic Poster	11 th International Congress on Obesity	Scientific Poster Presentation	2010
	Public Higher Education Academic Training Scheme	Ministry of Education, Malaysia	Phd Scholarship	2007
	Silver Medal	Universiti Putra Malaysia	UPM Research and Innovation Showcase	2006

	Public Higher Education Academic Training Scheme	Ministry of Education, Malaysia	Master Scholarship	2004
<i>Non-Academic Awards</i>	1) Winner of I'm a Scientist Get Me Out of Here Programme	Academy Science of Malaysia	Certificate and RM10,000 grant for school activities programme	2014

G. PENILAI JOURNAL (*Journal Reviewer*)

<i>No.</i>	<i>Citation Index Journal Title</i>	<i>Year</i>
1.	International Food Research Journal	2016
2.	Sains Malaysiana	2016, 2022
3.	Journal of Food Processing and Preservation	2017
4.	Journal of Oil Palm Research	2018, 2020
5.	International Food Research Journal	2019
6.	Journal of Food Biochemistry	2019, 2021
7.	Food Bioscience	2020, 2021, 2022
8.	Food Science and Technology International	2020
9.	Journal of Apicultural Research	2020
10.	Evidence-Based Complementary and Alternative Medicine	2021
11.	Applied Sciences	2021, 2022
12.	Annals of Microbiology	2021
13.	Letters in Applied Microbiology	2021, 2023
14.	Foods	2022, 2023
15.	Food Research International	2022
16.	Sustainability	2022
17.	Chemical Papers	2022
18.	Agriculture	2022
19.	International Journal of Environmental Research and	2022
20.	Public Health	2022
21.	Frontiers in Nutrition	2022, 2023
22.	Food Science and Nutrition	2022
23.	ASM Science Journal	2023
24.	Cogent Food and Agriculture	2023
25.	Current Research in Food Science	2023
26.	Molecules	2023
27.	Sustainable Chemistry and Pharmacy	2023
	Journal of Food Quality	
<i>No.</i>	<i>Non-Citation Index Journal Title</i>	<i>Year</i>
1.	Jurnal Teknologi	2015, 2020
2.	The Philippine Agricultural Scientist	2015
3.	Journal of Applied Pharmaceutical Science	2016
4.	Malaysian Journal of Analytical Sciences	2017, 2022
5.	The Pertanika Journal of Scholarly Research Reviews	2019
6.	Heliyon	2019, 2020, 2021, 2022

7.	Oriental Journal of Chemistry	2019
8.	Erciyes Medical Journal	2020
9.	Biocatalysis and Agricultural Biotechnology	2021
10.	ACS Food Science and Technology	2021
11.	Malaysian Journal of Microbiology	2021
12.	Materials Today: Proceedings	2021, 2022
13.	International Journal of Electrical and Computer Engineering	2022
14.	Iranian Journal of Veterinary Research	2022
15.	Malaysian Journal of Science	2023
16.	Biodiversitas	2022, 2023

H. SENARAI PENERBITAN (List of publications)			
No.	Year	Journal	Authors and Title (Corresponding author <u>underlined</u>)
1.	2023	Food Research 6(Suppl. 2):278-283; https://www.myfoodresearch.com/uploads/8/4/8/5/84855864/37_fr-nfts-036_arif_zaidi.pdf	Authors: <u>Arif Zaidi, J.</u> , Zawawi, N. , Ramlan, N.A.F.M., Nor Fadhilah, S. Title: Analysis of Trehalulose in Kelulut Honey Samples via HPLC-MS
2	2023	Nutrients Q1 15(13), 2835; https://doi.org/10.3390/nu15132835	Authors: Shafiq Zuhilmi Cheng, M.Z., Zulkhairi Amin, F.A., Zawawi, N. , Chan, K.W., Ismail, N., Ishak, N.A. <u>Mohd Esa, N.</u> Title: Stingless Bee (<i>Heterotrigona Itama</i>) Honey and Its Phenolic-Rich Extract Ameliorate Oxidant–Antioxidant Balance via KEAP1-NRF2 Signalling Pathway
3.	2023	Nutrients Q1 15(10), 2390; https://doi.org/10.3390/nu15102390	Authors: Zulkhairi Amin, F.A., Shafiq Cheng, M.Z., Sabri, S., Ismail, N., Chan, K.W., Mohd Esa, N., Mohd Lila, M.A., Nur-Fazila, S.H., Khalifa, S.A.M, El-Seedi, H.R., Zawawi, N. Title: In vivo Toxicity Assessment of Potential Probiotic <i>Bacillus amyloliquefaciens</i> HTI-19 isolated from Stingless Bee (<i>Heterotrigona itama</i>) Honey
4.	2023	Foods Q1 12(8), 1670; https://doi.org/10.3390/foods12081670	Authors: Mohamat, R.N., Mohammad Noor, N.R.A., Yusof, Y.A., Sabri, S., Zawawi N. Title: Differentiation of High-Fructose Corn Syrup Adulterated Kelulut Honey Using Physicochemical, Rheological, and Antibacterial Parameters
5.	2022	Sociobiology https://doi.org/10.13102/sociobiology.v69i4.8251	Authors: <u>Vit, P.</u> , Chuttong, B., Zawawi, N. , Diaz, M., van der Meulen, J., Ahmad, H.F., Tomas-Barberan, F.A.,

			Meccia, G., Danmek, K., Moreno, J.E., Roubik, D.W., Barth, O.M., Lachenmeier, D.W., Engel, M.S. Title: A Novel Integrative Methodology for Research on Pot-honey Variations During Post-harvest
6.	2022	Asia-Pacific Journal of Science and Technology 27(06) https://doi.org/10.14456/apst.2022.101	Authors: Rahim, F. N., <u>Ibadullah, W. Z.</u> , Saari, N., Mustapha, N. A., Shukri, R., Zawawi, N. , Karim, R., & Rashedi, I. F. Title: Comparison of different protein extraction methods of rice bran protein concentrates.
7.	2022	<i>Food Research International</i> Q1 https://doi.org/10.1016/j.foodres.2022.111988	Authors: Zaini, N.S., Karim, R. Abdull Razis, A.F., Soulof Hamid, N.F. and Zawawi, N. Title: A pilot study of toxicological safety evaluation in acute and subacute (28-day) oral assessments of kenaf seed beverage in rats
8.	2022	<i>Molecules</i> Q2 https://doi.org/10.3390/molecules27206813	Authors: Zaini, N.S., Karim, R. Abdull Razis, A.F. and Zawawi, N. Title: Utilizing Nutritional and Polyphenolic Compounds in Underutilized Plant Seeds for Health Application.
9.	2022	<i>Critical Reviews in Food Science and Nutrition</i> Q1 https://doi.org/10.1080/10408398.2022.2031092	Authors: Nevara, G.A.N., Giwa Ibrahim, S., Syed Muhammad, S.H., Zawawi, N. , Mustapha, N.A. and Karim, R. Title: Oilseed meals into foods: An approach for the valorization of oilseed by-products.
10.	2022	<i>Food Chemistry</i> Q1 373, 131566 https://doi.org/10.1016/j.foodchem.2021.131566	Authors: Zawawi, N. , Zhang, J., Hungerford, N.L., Yates, H.S.A., Webber D.C., Farrell, M., Tinggi, U., Bhandari, B. and Fletcher, M.T. Title: Unique physicochemical properties and rare reducing sugar trehalulose mandate new international regulation for stingless bee honey.
11.	2021	<i>Publisher: The International Bee Research Association</i> <i>Book: Malaysian Meliponiculture & Beyond Inc. Stingless Bee Conservation</i> ISBN: 978-1-913811-06-8	Coordinator: Abu Hassan Jalil Editor: David W. Roubik Authors: Mat Ramlan, N.A.F, Zawawi, N. Title: Chapter 13: Diversity in Stingless Bee Honey Profiles and Implications of Trehalulose Discovery as One of The Main Sugars in Stingless Bee Honey.
12.	2021	<i>International Journal of Food Science and Technology</i> Q2 https://doi.org/10.1111/ijfs.15421	Authors: Nevara, G.A.N., Syed Muhammad, S.H., Zawawi, N. , Mustapha, N.A. and Karim, R. Title: Physicochemical and functional properties of carbohydrate-protein gum extracted from kenaf (<i>Hibiscus cannabinus</i> L.) seed.
13.	2021	<i>Antibiotics</i> Q1 10(11), 1365; https://doi.org/10.3390/antibiotics10111365	Authors: Mat Ramlan, N.A.F, Md Zin, A.S., Safari, N.F., Chan K.W. and Zawawi, N. Title: Application of heating on antioxidant and antibacterial properties of Malaysian and Australian stingless bee honey.

14.	2021	<i>Molecules</i> Q2 26, 4399; https://doi.org/10.3390/molecules26154399	Authors: Zawawi, N. , Chong, P.J., Mohd Tom, N.N., Anuar, N.S.S., Mohammad, S.M., Ismail, N. and Jusoh, A.Z. Title: Establishing Relationship between Vitamins, Total Phenolic and Total Flavonoid Content and Antioxidant Activities in Various Honey Types (Review).
15.	2021	<i>Sains Malaysiana</i> Q4 Volume 50, No. 11; http://doi.org/10.17576/jsm-2021-5011-12	Authors: Mat Ramlan, N.A.F, Mohammad, S.M., Karim, R., Syed Muhammad, S.K. and Zawawi, N. Title: Nutritional Composition, Techno-Functional Properties and Sensory Analysis of Pan Bread Fortified with Kenaf Seeds Dietary Fibre.
16.	2021	<i>Food Control</i> Q1 https://doi.org/10.1016/j.foodcont.2021.108140	Authors: <u>Muhalidin B.J.</u> , Zawawi, N. , Abdull Razis A. F., Bakar, J. and Zarei, M. Title: Antiviral activity of fermented foods and their probiotics bacteria towards respiratory and alimentary tracts viruses (Review).
17.	2021	<i>Foods</i> Q2 10(4), 754; https://doi.org/10.3390/foods10040754	Authors: Nevara, G.A.N., Syed Muhammad, S.H., Zawawi, N. , Mustapha, N.A. and <u>Karim, R.</u> Title: Dietary Fiber: Fractionation, Characterization and Potential Sources from Defatted Oilseeds (Review).
18.	2021	<i>Journal of Food Quality</i> Q3 . https://doi.org/10.1155/2021/6657553	Authors: Mohammad, S.M., Badrul Hisham, A.A., Mustafa, N.A., Chan, K.W and Zawawi, N. Title: Proximate Analysis, Antioxidant Activity, and Antibacterial Activity of Fish Sausages Fortified with Bee Bread Extract.
19.	2021	<i>Molecules</i> Q2 . 26 (4) 957; https://doi.org/10.3390/molecules26040957	Authors: Mohammad, S.M., Mahmud-Ab-Rashid, N.-K. and Zawawi, N. Title: Stingless Bee-Collected Pollen (Bee Bread): Chemical, Health Benefits and Microbiological Properties (Review).
20.	2020	<i>The Science Breaker</i> . 7(1) https://doi.org/10.25250/thescbr.brk453	Authors: <u>Hungerford, N.L.</u> , Fletcher, M.T. and Zawawi, N. Title: Study gets the buzz on stingless bee honey.
21.	2020	<i>Sains Malaysiana</i> Q4 . 49(8):1853-1863; http://dx.doi.org/10.17576/jsm-2020-4908-08	Authors: <u>Ngalimat, M.S.</u> , Raja Abd Rahman, R.N.Z., Yusof, M.T., Amir Hamzah, A.S., Zawawi, N. and Sabri, S. Title: A Review on the Association of Bacteria with Stingless Bees (Suatu Ulasan tentang Perkaitan Bakteria dengan Kelulut).
22.	2020	<i>Scientific Reports</i> Q1 . Sci Rep 10, 12128; https://doi.org/10.1038/s41598-020-68940-0	Authors: Fletcher, M.T., Hungerford, N.L., Webber, D., Carpinelli de Jesus, M., Zhang, J., Stone, I.S.J., Blanchfield, J.T., Zawawi, N. Title: Stingless Bee Honey, a Novel Source of Trehalulose: A Biologically Active Disaccharide with Health Benefits.
23.	2020	<i>Journal of Apicultural Research</i> Q1 .	Authors: Mohammad, S.M., Mahmud-Ab-Rashid, N.-K., Zawawi, N.

		https://doi.org/10.1080/00218839.2020.1801152	Title: Probiotic Properties of Bacteria Isolated from Bee Bread of Stingless Bee <i>Heterotrigona itama</i> .
24.	2020	<i>In Tech Open. Book: Milk Substitutes.</i> https://doi.org/10.5772/intechopen.94067	Authors: <u>Karim, R.</u> , Noh, N.A.M., Ibadullah, W.Z.W., Zawawi, N. , Saari, N. Editor: Malgorzata Ziarno Title: Kenaf (<i>Hibiscus cannabinus L.</i>) Seed Extract as a New Plant-Based Milk Alternative and Its Potential Food Uses.
25.	2020	<i>Journal of Food Quality Q3.</i> https://doi.org/10.1155/2020/2845757	Authors: Mohammad, S.M., Mahmud-Ab-Rashid, N.-K., Zawawi, N. Title: Botanical Origin and Nutritional Values of Bee Bread of Stingless Bee (<i>Heterotrigona itama</i>) from Malaysia.
26.	2019	<i>International Journal of Environmental Research and Public Health Q2.</i> 17(1). E278; https://doi.org/10.3390/ijerph17010278	Authors: Zulkhairi Amin, F.A., Sabri, S., Ismail, M., Chan, K.W., Ismail, N., Mohd Esa, N., Mohd Lila, M.A. and Zawawi, N. Title: Probiotic Properties of Bacillus Strains Isolated from Stingless Bee (<i>Heterotrigona itama</i>) Honey Collected across Malaysia.
27.	2019	<i>International Food Research Journal Q4</i> 26(6):1677-1687; http://www.ifrj.upm.edu.my/26%20(06)%202019/03%20-%20IFRJ18827.R1-Final.pdf	Authors: Mohamad, S.M., Mohd Razali, S.F., Mohamad Rozaiman, N.H.N., Laizani, A.N. and Zawawi, N. Title: Application of seaweed (<i>Kappaphycus alvarezii</i>) in Malaysian food products.
28.	2019	<i>Journal of Food Science Q2.</i> https://doi.org/10.1111/1750-3841.14714	Authors: Ibrahim, S.G., <u>Karim, R.</u> , Saari, N., Wan Abdullah W.Z., Zawawi, N. , Ab Razak A.F., Hamim, N.A. and Umar, R. Title: Kenaf (<i>Hibiscus cannabinus L.</i>) Seed and its Potential Food Applications_ A Review.
29.	2019	<i>Malaysian Journal of Medicine and Health Sciences</i> 15:104-112; https://medic.upm.edu.my/upload/dokumen/2019041008261915_MJ_MHS_Vol_15_SP1.pdf	Authors: Mohamad, Z., Ismail, M., Kim Wei, C., Jiun Der, O., Ismail, N, Zawawi, N. , Mohd Lila, M.A., <u>Norhaizan, M.E.</u> Title: Comparison of Sugar Content, Mineral Elements and Antioxidant Properties of <i>Heterotrigona Itama</i> Honey from Suburban and Forest in Malaysia.
30.	2018	<i>Frontiers in Pharmacology Q1.</i> https://doi.org/10.3389/conf.fphar.2019.63.00013	Authors: Abu Bakar, B., Zawawi, N. , Omar, A.R., <u>Ismail, M.</u> Title: Obesity, insulin resistance and the rice you eat: Any link? (Conference abstract)
31.	2018	<i>Malaysian Journal of Medical Sciences.</i> Vol. 25, Issue 6, 46-58; 10.21315/mjms2018.25.6.5	Authors: Zawawi, N. , Ismail, M. Title: <i>Strobilanthes crispus</i> extract reduces respiratory exchange ratio in obese mice fed high-fat and low-fat diets.
32.	2018	<i>Advances in Pharmacological and Pharmaceutical Sciences Q2.</i> Vol. 2018: Article number 6179596;	Authors: Zulkhairi Amin, F.A., Sabri, S., Mohammad, S.M., Ismail, M., Chan, K.M., Ismail, N, Norhaizan, M.E., Zawawi, N.

		https://doi.org/10.1155/2018/6179596	Title: Therapeutic properties of stingless bee honey in comparison with European bee honey.
33.	2018	<i>Journal of Food and Drug Analysis</i> Q1 . Vol. 26, Issue 2, 706-715; https://doi.org/10.1016/j.jfda.2017.06.010	Authors: Abubakar, B., Muhammad Yakazai, H., Zawawi, N. , <u>Ismail, M.</u> Title: Compositional analyses of white, brown and germinated forms of popular Malaysian rice to offer insight into the growing diet-related diseases.
34.	2017	<i>Journal of The Science of Food and Agriculture</i> Q1 Vol. 98(1), 99.240-252; https://doi.org/10.1002/jsfa.8462	Authors: Lee, S.Y., <u>Abas, F.</u> , Khatib, A., Ismail, I.S., Shaari, K., Zawawi, N. Title: Comparison of partial least squares and random forests for evaluating relationship between phenolics and bioactivities of <i>Neptunia oleracea</i> .
35.	2017	<i>International Journal of Academic Research in Progressive Education and Development</i> . Vol. 6(4) ISSN: 2226-6348; http://dx.doi.org/10.6007/IJARPE-D/v6-i4/3528	Authors: <u>Sukor, R.</u> , Mohd Ayub, A.F., Zawawi, N. , Nor Khaizura, A.R. Title: Influence of Student's Motivation on Academic Performance among Non-Food Science Students Taking Food Science Course.
36.	2017	<i>PLoS ONE</i> Q2 . Vol. 12(7): 0181309; 10.1371/journal.pone.0181309	Authors: Abubakar, B., Zawawi, N. , Omar, A.R., <u>Ismail, M.</u> Title: Predisposition to insulin resistance and obesity due to staple consumption of rice: Amylose content versus germination status.
37.	2017	<i>Malaysian Journal of Nutrition</i> . Vol. 23 (Supplement): S110; https://www.nsmconference.org.my/wp-content/uploads/download/2017/seaphnconf2017-programme-book-20170512.pdf	Authors: Norhasnida Z. , Zulaikha, T., Russly A.R., <u>Maznah, I.</u> Title: Pecah Kaca (<i>Strobilanthes crispus</i>) leaves inhibit lipid metabolism and modulate leptin secretion in human adipocytes in vitro.
38.	2016	<i>Obesity Reviews</i> Q1 . T4:S25:08. ISSN Print: 1467-7881; https://doi.org/10.1111/obr.12401	Authors: Zawawi, N. Title: Comparative regulation of lipolysis by polyphenols in the human and rat adipose tissue explants (ATE).
39.	2016	<i>Phytochemistry Letters</i> Q3 . Vol. 16:23-33; https://doi.org/10.1016/j.phytol.2016.02.014	Authors: Lee, S.Y., <u>Abas, F.</u> , Khatib, A., Ismail, I.S., Shaari, K., Zawawi, N. Title: Metabolite profiling of <i>Neptunia oleracea</i> and correlation with antioxidant and alpha glucosidase inhibitory activities using HNMR based metabolomics.
40.	2016	<i>BMC Complementary and Alternative Medicine</i> Q2 . Vol. 16:88; https://doi.org/10.1186/s12906-016-1049-5	Authors: Nadarajan, S., Imam, M.U., Mohd Esa, N. , Zawawi, N. , <u>Ismail, M.</u> Title: Effects of phenolic-rich extracts of <i>Clinacanthus nutans</i> on high fat and high cholesterol diet-induced insulin resistance.

41.	2016	<i>Oxidative Medicine and Cellular Longevity</i> Q2 . Article number:4137908; https://doi.org/10.1155/2016/4137908	Authors: Nadarajan, S., Imam, M.U., Ooi DJ., Chan, K.W., Md Esa, N., Zawawi, N. , Ismail, M. Title: Phenolic Rich Extract from <i>Clinacanthus nutans</i> Attenuates Hyperlipidemia-Associated Oxidative Stress in Rats.
42.	2016	<i>International Food Research Journal</i> Q4 . Vol. 23(3):1115-1122; http://www.ifrj.upm.edu.my/23%20(03)%202016/(29).pdf	Authors: N. Zawawi , Azizah Abd. Hamid, Maznah I. Title: <i>Strobilanthes crispus</i> leaves extracts (SCE) induced lipolysis and increased leptin level in diet-induced obese rats fed high-fat diet.
43.	2014	<i>International Food Research Journal</i> Q4 . Vol. 2(2), page 603-608; http://www.ifrj.upm.edu.my/21%20(02)%202014/25%20IFRJ%2021%20(02)%202014%20Norhasnida%20525.pdf	Authors: N. Zawawi , Gangadharan, P., Ahma Zaini, R., Samsudin, M.G., Karim, R. and Maznah, I. Title: Nutritional values and cooking quality of defatted kenaf seeds yellow (DKSY) noodles.
44.	2007	<i>Malaysian Journal of Nutrition</i> . Vol. 13, No.2: S95; https://nutriweb.org.my/mjn/publication/13-2/supplement.pdf	Authors: Zawawi, N. , Suhaila M, Azizah AH, <u>Maznah I.</u> Title: Effect of Jin Batu (<i>Strobilanthes crispus</i>) leafy extracts in assisting body weight loss of diet-induced obese rats.
No.	Year	Conference / Seminar/Course as Invited Speaker/Oral/Poster	Author/s and Title (Corresponding author underlined)
1.	2023	5 th International Conference on the Medicinal Use of Honey (5 th V- iCMUH) *Invited Speaker	Author: <u>Zawawi, N.</u> Title: Trehalulose as Biomarker for Stingless Bee Honey
2.	2023	2 nd International Congress on Bee Sciences *Invited Speaker	Author: <u>Zawawi, N.</u> Title: Trehalulose as Biomarker for Stingless Bee Honey
3.	2023	Stingless Bee Industry Challenges – International Seminar 2023 *Invited Speaker	Author: <u>Zawawi, N.</u> Title: Nutritional Profile of Stingless Bee Honey from Around the World
4.	2023	International Stingless Bee Entrepreneur Seminar *Invited Speaker	Author: <u>Zawawi, N.</u> Title: Unique Nutrient and Bioactive Compounds of Stingless Bee Honey from Around the World
5.	2022	1 st International Congress on Bee Sciences *Invited Speaker	Author: <u>Zawawi, N.</u> Title: Unique Kelulut Factor? A Review of Potential Nutritional Parameters for Grading Stingless Bee Honey

6.	2022	World Bee Day Celebration 2022 *Forum Panel	Forum title: Bee Sustainability: Source of Biodiversity and Economic Catalyst
7.	2022	TropAg International Agriculture Conference 2022 https://tropagconference.org/wp-content/uploads/2022/02/TropAg-2022-POSTER-abstracts-241022.pdf	Authors: Mat Ramlan, N.A.F, Zaini, N.S, <u>Hungerford, N.</u> , Fletcher, M. and Zawawi, N. Title: Determination of phenolic compounds and organic acids of stingless bee honey from Malaysia and Australia
8.	2021	National Food Technology Seminar 2020	Authors: Jusoh, A.F., Zawawi, N. , Mat Ramlan, N.A.F. and Sapie, N.F. Title: Trehalulose Sugar in Stingless Bee Honey: A New Discovery.
9.	2021	1st Southeast Asia Meliponine Symposium 2021 (SEAMS 2021) *Invited Speaker	Authors: Zawawi, N. , Hungerford, N.L., Webber, D., de Jesus, M.C., Zhang, J., Stone, I.S.J., Blanchfield, J.T., Tinggi, U., Farrell, M., Zhu, T., Fletcher, M.T. Title: Trehalulose Sugar in Stingless Bee Honey: A New Discovery.
10.	2021	International Congress of the Malaysian Society for Microbiology (ICMSM2021)	Authors: <u>Sabri, S.</u> , Zawawi, N. , Ngaliat, M.S., Yahaya, R.S.R., Baharudin, M.M.A., Zulkhairi-Amin, F.A. Title: Bioprospecting for Industrially Important Bacteria in Stingless Bee Nest Products.
11.	2021	The 2 nd International Electronic Conference on Foods (Foods 2021) https://sciforum.net/paper/view/11056	Authors: Mohamat, R.N., Yusof, Y.A., Zawawi, N. Title: Correlation of Trehalulose Content with Physicochemical Parameters in Adulterated Kelulut Honey.
12.	2021	Nutrition Society of Malaysia 36th Scientific Conference 2021 https://www.nsmconference.org.my/wp-content/uploads/download/2021/36th%20NSM%20Conference%20Programme%20Book%2020210905%201am.pdf	Authors: Zaini, NS, Karim, R, Abdull Razis, AF, Zawawi, N. Title: Safety Assessment of a Novel Plant-based Milk Alternative from Kenaf (<i>Hibiscus cannabinus L.</i>) Seeds Through Subacute Oral Toxicity Study.
13.	2020	5th Queensland Annual Chemistry Symposium (QACS 2020)	Authors: <u>Hungerford, N.L.</u> , Zhang, J., Carpinelli de Jesus, M., Yates, H., Webber, D., Stone, I.S.J., Blanchfield, J., Zawawi, N., Fletcher, M.T. Title: Stingless Bee Honey as a Unique Source of Trehalulose.
14.	2020	Nutrition Society of Malaysia 35th Scientific Conference 2020	Authors: Zaini, NS, Karim, R, Abdull Razis, AF, Zawawi, N.

		https://www.nsmconference.org.my/wp-content/uploads/download/2020/abstracts/F/70.pdf	Title: Safety Assessment of A Novel Plant-based Milk Alternative from Kenaf (<i>Hibiscus cannabinus L.</i>) Seeds Through Acute Oral Toxicity Study.
15.	2020	Nutrition Society of Malaysia 35th Scientific Conference 2020 https://www.nsmconference.org.my/wp-content/uploads/download/2020/abstracts/E/66.pdf	Authors: Ramlan, NAFM, Zaini, NS, Mohammad, SM, Ramli, NS, Zawawi, N. Title: Physicochemical, Sensory and Antioxidant Properties of Persimmon (<i>Diospyros kaki L.</i>) Leaves Cookies.
16.	2019	International Tropical Agriculture Conference 2019 Multidisciplinary Digital Publishing Institute Proceedings 36(1), 101	Authors: <u>Hungerford, N.L.</u> , Tan, B.L.L., Tinggi, U., Zawawi, N. , Farrell, M., Tsai, H.H., Hnatko, D., Swann, L.J., Kelly, C.L., Anuj, S.R., Webber, D.C., Were, S.T., Fletcher, M.T. Title: Analysis of Environmental Contaminants in Australian Honey and Comparison to Stingless Bee Honey from Queensland and Malaysia.
17.	2019	International Conference of Food Analysis 2019 https://doi.org/10.3390/proceedings2019036101	Authors: Melksham, KJ, Hungerford, NL, Martin, CL, Carter, SJ, Anuj, SR, Sharma, E, Yin, M, Nguyen, T, Were, ST, Zawawi, N. , Tianqi, Z, Tan, B , Fletcher, MT. Title: Pyrrolizidine Alkaloids in Honey.
18.	2019	International Food Research Conference 2019	Authors: Mohammad, SM, Zawawi, N. , Mahmud-Ab-Rashid, N. Title: Stress Tolerance, Adhesion Ability and Safety Assessment of Probiotic Bacteria Isolated from Bee Bread of Stingless Bee (<i>Heterotrigona itama</i>).
19.	2019	Malaysian International Genetics Congress (MIGC13)	Authors: Zulaikha Tajuddin, Norsharina Ismail, Chan Kim Wei, Maznah Ismail, Norhasnida Zawawi Title: Anti-Obesity Effect of <i>Strobilanthes Crispus</i> Leaves Extract by Inhibition of Human Visceral Preadipocyte Cells and Increased Gene Expression of Proinflammatory Adipocytokines.
20.	2018	International Conference on Probiotics and Food Sustainability 2018.	Authors: Fatin Aina Zulkhairi Amin, Norhasnida Zawawi , Suriana Sabri, Maznah Ismail, Norhaizan Mohd Esa, Kim Wei Chan, and Norsharina Ismail. Title: Molecular Identification of Potential Probiotic Bacillus Spp. Strain Isolated from Stingless Bee Honey (<i>Heterotrigona itama</i>).
21.	2018	Bromo conference: Symposium on Natural Products & Biodiversity 2018	Authors: Fatin Aina Zulkhairi, Norhasnida Zawawi , Suriana Sabri, Maznah Ismail, and Norhaizan Mohd Esa. Title: Isolation and identification of Bacillus spp. isolates from stingless bee honey (<i>Heterotrigona itama</i>).

22.	2018	International Conference on Probiotics & Food Sustainability 2018.	Authors: Salma Malihah, M., Norhasnida, Z. , Nor-Khaizura, M-A-R. Title: Molecular Identification of Lactic Acid Bacteria and Bacillus spp. Isolated from Bee Bread of Stingless Bee (<i>Heterotrigona itama</i>).
23.	2017	International Food Research Conference 2017	Authors: Bilyaminu, A., Md Zuki, A.B., Maznah, I., Norhasnida Z. Title: Intergenerational regulation of PPARgamma and GLUT4 by amylose content and/or germination status of rice cultivars.
24.	2017	1 st Southeast Asia Public Health Nutrition Conference	Authors: Norhasnida Zawawi , Zulaikha Tajuddin, Russly Abdul Rahman, Maznah Ismail Title: Pecah Kaca (<i>Strobilanthes crispus</i>) leaves inhibit lipid metabolism and modulate leptin secretion in human adipocytes in vitro.
25.	2016	The 29 th International Symposium on the Chemistry of Natural Products	Authors: Norhasnida, Z. , Nursyafika, H., Maznah, I., Hiroyuki, Y. Title: Subcritical water extraction of <i>Strobilanthes crispus</i> leaves increased antioxidant activity.
26.	2016	International Conference on Natural Products 2016	Authors: Lee, S.Y., Faridah, A., Alfi, K., Intan, S.I., Khozirah, S., Norhasnida Z. Title: Metabolite profiling of <i>Neptunia oleracea</i> and correlation with antioxidant and alpha-glucosidase inhibitory activities using H-NMR based metabolomics.
27.	2016	International Conference on Natural Products 2016	Authors: Zulaikha, T., Norhasnida Z. Title: Antioxidant, total phenolic content and high-performance liquid chromatography (HPLC) profiling of <i>Strobilanthes crispus</i> leaves using supercritical fluid extraction method.
28.	2015	International Conference on Natural Products 2015	Authors: N. Zawawi , Abd Manan N.A., Othman N.H., Jamaludin Z., Ismail M. Title: Anticancer and Antioxidant Activities of <i>Strobilanthes crispus</i> Leaves Extracts. International Conference on Natural Product.
29.	2014	International Conference on Advances in Plant Biochemistry and Biotechnology 2014	Authors: Zawawi N. , Mior S.H.F, Abdullah N.A., Muhamad N.Z., Ismail M. Title: Higher Total Phenolic Content and Antioxidant Activities of <i>Strobilanthes crispus</i> Leaves Extracted using Chemical Reagents and Water Compared to Subcritical Carbon Dioxide Extraction.

30.	2014	5th International Symposium on Wellness, Healthy Lifestyle and Nutrition	Authors: N. Zawawi , MG. Samsudin, Ismail, M. Title: Functional Properties of Kenaf Seeds (<i>Hibiscus cannabinus L.</i>) Dietary Fibre.
31.	2013	2nd International Conference on Kenaf and Allied Fibres	Authors: N. Zawawi , Gangadharan P., Ahma Zaini R., Samsudin M.G., Karim R., Ismail M. Title: Defatted Kenaf Seeds Yellow (DKSY) Noodles Possess Higher Nutritional Values and Better Cooking Quality than Wheat Based Yellow Noodles.
32.	2013	International Functional Food Conference	Authors: M.G. Samsudin, R. Karim, M. Ismail, N. Zawawi . Title: Nutritional Composition of <i>Hibiscus Cannabinus L.</i> Seeds.
33.	2013	28th Nutrition Society of Malaysia Conference	Authors: N. Zawawi , Soid PF, Samsudin MG, Karim R and Ismail M. Title: 50% rice bran flour increased total phenolic content and fiber in yellow alkaline noodles.
34.	2012	2nd International Conference on The Science of Nutrition in Medicine and Healthcare.	Authors: N. Zawawi , Tan G., Salter A., Brameld J. Title: EGCG and Resveratrol Regulate Lipolysis in the Rat and Human Adipose Tissue Ex Vivo.
35.	2011	International Conference on Natural Products	Authors: N. Zawawi , Warner A., Ebling F., Salter A., Brameld J. Title: <i>Strobilanthes crispus</i> extract increased heat production and reduces respiratory exchange ratio (RER) in obese mice fed high fat and low-fat diets without altering food intake.
No.	Date	Research in Media Publication & Interviews	Title and Website link
1.	4 th September 2020	FB Live Interview by Bayu Kelulut Superfood M'sia	Title: Trehalulosa dalam madu kelulut – Apa itu Trehalulosa sebenarnya? (<i>Trehalulose in stingless bee honey – What exactly is trehalulose?</i>) Link: https://www.facebook.com/nidaresearch/posts/109235807579987
2.	12 th August 2020	Online news – Eco-business	Title: Stingless bee honey discovery could create conservation-friendly business opportunities in Asia Pacific Link: https://www.eco-business.com/news/stingless-bee-honey-discovery-could-create-conservation-friendly-business-opportunities-in-asia-pacific/

3.	6 th August 2020	Online news – Utusan Malaysia	Title: Madu kelulut mampu cegah kencing manis Link: https://www.utusan.com.my/nasional/2020/08/madu-kelulut-mampu-cegah-kencing-manis/
4.	4 th August 2020	Online news - Berita UPM	Title: 1. Penyelidik UPM temui gula trehalulosa dalam madu kelulut, baik untuk kesihatan. Link: https://upm.edu.my/berita/penyelidik_upm_temui_gula_trehalulosa_dalam_madu_kelulut_baik_untuk_kesihatan-57798?L=bn 2. Researchers discover trehalulose sugar in kelulut honey with health benefits. Link: https://upm.edu.my/berita/penyelidik_upm_temui_gula_trehalulosa_dalam_madu_kelulut_baik_untuk_kesihatan-57798?L=en
5.	4 th August 2020	Online news - Kosmo!	Title: Penyelidik UPM temui gula trehalulosa dalam madu kelulut Link: https://www.kosmo.com.my/2020/08/04/penyelidik-upm-temui-gula-trehalulosa-dalam-madu-kelulut/
6	28 th July 2020	Online news: New Zealand Herald	Title: Science sweetens native honey health claims Link: https://www.nzherald.co.nz/the-country/news/science-sweetens-native-honey-health-claims/TJ6BALYW3M5X6TK5BVHQPIFH7U/
7.	27 th July 2020	Online news – In Queensland	Title: New superfood find creates buzz in native honey market Link: https://inql.com.au/statewide/2020/07/27/new-superfood-find-creates-buzz-in-native-honey-market/
8.	23 rd July 2020	Online news – The University of Queensland	Title: Science sweetens native honey health claims Link: https://www.uq.edu.au/news/article/2020/07/science-sweetens-native-honey-health-claims
9.	23 rd July 2020	Online news – Australian Online News	Title: Science identifies rare, healthy sugar in native stingless bee honey Link: https://australianonlinenews.com.au/2020/07/23/science-identifies-rare-healthy-sugar-in-native-stingless-bee-honey-news-medical-net/

10.	23 rd July 2020	Online news – Brisbane Times	Title: Scientists say native stingless bee honey hits the sweet spot Link: https://www.brisbanetimes.com.au/national/queensland/scientists-say-native-stingless-bee-honey-hits-the-sweet-spot-20200723-p55eud.html
11.	23 rd July 2020	Online news – Melbourne Online News	Title: Science identifies rare, healthy sugar in native stingless bee honey Link: https://melbourneonlinenews.net.au/science-identifies-rare-healthy-sugar-in-native-stingless-bee-honey-news-medical-net/
12.	24 th Sept 2019	Online seminar -QAAFI Science Seminar	Title: Stingless Bee Honey – Towards Standardisation Link: https://www.youtube.com/watch?v=vmUL2ai5wzQ
13.	13 th August 2019	Radio – IKIM.fm	Title: Bicara Halal – Nutrisi dalam Islam (<i>Halal Talk – Nutrition in Islam</i>) Link: https://fb.watch/2dEI7SKTg4/
14.	May Issue, 2019	Entomological Society Queensland (ESQ) Bulletin.	Title: Stingless Bee Honey Unique Properties
15.	Bil. 2, 2017	Dewan Masyarakat	Title: Bahan Semulajadi Tidak Semestinya Selamat (<i>Natural Substances are Not Necessarily Safe</i>)
16.	Julai 2016	Dewan Masyarakat	Title: Puasa Menyihatkan Tubuh Badan (<i>Fasting for Body Health</i>)

I. PROJEK PENYELIDIKAN (*Research Projects*)

No.	Project Title	Role	Year	Source of fund	Status
1.	Quality-Fingerprinting of Trehalulose-Rich Kelulut Honey by Linking Physico-Chemical Properties, Sensory Profile and Modulation of Glucose Metabolism In Vivo	Lead Researcher	2022-2024	FRGS, Ministry of Higher Education, Malaysia (RM148,240)	Ongoing
2.	Assessing The Impact of Stingless Bee Honey Indirect Adulteration Based On Physicochemical Properties Using Machine Learning and Physiological Effects In Vivo	Lead Researcher	2022-20224	Putra Berimpak Grant (RM60,000)	Ongoing
3.	Development of Trehalulose Sugar with Low Glycemic Index and High Antioxidant Activities as Pure Analytical Standard and Marker of High-Quality Stingless Bee Honey	Lead Researcher	2021-2023	ICF, Ministry of Science, Technology and Innovation Malaysia. (RM481,100)	Ongoing
4.	Increasing Yield of Brown and Fragrance Rice through Increased of Tillering Rate using Plant Growth Regulators – Ethephon and Gibberellic Acid	Co-researcher	2020-2022	Sarawak State Government (RM160,000)	Ongoing

5.	Nutritional Value and Probiotic Properties of Malaysian Stingless Bee-Collected Pollens (Bee Bread)	Lead researcher	2017-2020	Putra Grant (RM50,000)	Completed
6.	Development of protein derived food products from Kenaf seed milk	Co-researcher	2017 - 2020	Malaysian Board of Kenaf and Tobacco (RM260,000)	Ongoing
5.	Nutraceutical properties and probiotic potential of stingless bee honey for establishment of quality markers against oxidative stress.	Co-researcher	2016 - 2020	TRGS, Ministry of Higher Education, Malaysia (RM189,000)	Completed
6.	Modulation of the Human Adipocyte Life Cycle by <i>Strobilanthes crispus</i> Extracts	Lead researcher	2013-2017	FRGS, Ministry of Higher Education, Malaysia (RM117,000)	Completed
7.	Nutritional quality and physicochemical properties of defatted kenaf seed flour and its application in food systems	Lead researcher	2013-2015	IPM, Universiti Putra Malaysia (RM30,000)	Completed
TOTAL RESEARCH GRANT RECEIVED AS LEAD RESEARCHER				RM 886,340.00	
TOTAL RESEARCH GRANT RECEIVED AS CO-RESEARCHER				RM 609,000.00	
TOTAL RESEARCH GRANT RECEIVED				RM 1,495,340.00	

J. PENYELIAAN PELAJAR (<i>Student Supervision</i>)				
<i>Degree</i>	<i>Name</i>	<i>Thesis Title</i>	<i>Role</i>	<i>Status</i>
<i>PhD</i>	1) Fatima Al-Futini	Isolation and Characterization of Antidiabetic and Antioxidant Compounds from <i>Dracaena Cinnabari</i>	Supervisor	Ongoing
	3) Amna Saeed	Production on Alternative Milk from Sustainable Resources and Application as Functional Food	Supervisor	Ongoing
	3) Stellamaris Kembangbazi	Production Of Type III Resistant Starch from Cooking Bananas by Extrusion Process: Prospects For Application In Bread Production	Co-Supervisor	Ongoing
	4) Nur Rabiatal Adawiah Mohammad Noor	Classification And Prediction of Kelulut Bee Honey Indirect Adulteration on Physicochemical and Microbial Properties Using Machine Learning Models.	Supervisor	Ongoing
	5) Yogaletchumy Seevanathan	Screening, cloning and characterization of trehalulose synthase from stingless bee and bee-related microbes.	Co-Supervisor	Ongoing
	6) Kousalya Padmanabhan	Development of the Fermented Tomato-Watermelon Juice for the Optimal Lycopene Production.	Co-Supervisor	Ongoing

	7) Nevarra Gita Adella	Fractionation And Characterization of Kenaf (<i>Hibiscus Cannabinus L.</i>) Seed Fibre and Its Application in Food Products.	Co-Supervisor	Ongoing
	8) Bilyaminu Abu Bakar	Intergenerational Effect of Amylose Content and Germination Status of Rice Cultivars in Normal and High-Fat Diet- Fed Rats.	Co-Supervisor	Graduated
	9) Lee Soo Yee	Metabolite characterization of <i>Neptunia oleracea Lour.</i> and its correlation with antioxidant and alpha-glucosidase inhibitory activities using NMR-based metabolomics approach.	Co-Supervisor	Graduated
	10) Sarega A/P Nadarajan	Anti-hypercholesterolemic Effects of <i>Clinacanthus nutans</i> on High-Fat/Cholesterol Induced Rats.	Co-Supervisor	Graduated
<i>MSc</i>	1) Bella Halida Putri Mohd Toha	Quantification of 5-Hydroxymethylfurfural (HMF) and Total Acidity in Stingless Bee Honey from Peninsular Malaysia.	Supervisor	Graduated
	2) Nurul Ainaa Farhanah Mat Ramlan	Physicochemical and antioxidant properties of stingless bee honeys associated with its' trehalulose contents.	Supervisor	Ongoing
	3) Nur Syamimi Zaini	Evaluation of Nutritional Values and Safety of Plant-based Milk from Kenaf (<i>Hibiscus cannabinus L.</i>) Seeds.	Supervisor	Ongoing
	4) Helina A/P Ganaprakasam	Effect of <i>Strobilanthes crispus</i> Leaves Subcritical Water Extract on 3T3-L1 Preadipocytes Viability.	Supervisor	Graduated
	5) Salma Mohamed	Botanical Origin, Nutritional Values and Probiotic Properties of Bee Bread of Stingless Bee (<i>Heterotrigona itama</i>).	Supervisor	Graduated
	6) Rinee Najwa Mohamat	Analysis of Kelulut Honey Sugar-Based Adulteration Using Physicochemical Parameters.	Supervisor	Graduated
	7) Fatin Ainaa Zulkhairi Amin	In Vitro and In Vivo Evaluation of Potential Probiotic <i>Bacillus</i> Spp. Isolated from Stingless Bee (<i>H. itama</i>) Honey.	Supervisor	Graduated
<i>BSc</i>	1) Jamihahtun Anisyak Mohamad	Quality Evaluation of Rice Bran Noodle.	Supervisor	2012
	2) Siti Nadzirah Mahpof	Nutritional Evaluation on Defatted Kenaf Noodle	Supervisor	2012
	3) Fathahiyah Soid	Nutritional Evaluation of Rice Bran Noodle	Supervisor	2012
	4) Nur Sabrina Kamarulzaman	Quality Evaluation on Defatted Kenaf Noodle.	Supervisor	2012

5) Rojana Ahma Zainai	Quality Evaluation of Defatted Kenaf Seed Flour Incorporated into Yellow Alkaline Noodles.	Supervisor	2013
6) Prashanti PK Gangadharan	Nutritional Evaluation of Yellow Alkaline Noodles from Defatted Kenaf Seeds.	Supervisor	2013
7) Nor Zalilah Muhamad	Determination of Phenolic Contents in <i>Strobilanthes crispus</i> Leaves Extracted using Chloroform-Methanol.	Supervisor	2014
8) Nurul Huda Othman	Cytotoxic Activity of <i>Strobilanthes crispus</i> Leaves Extracted with Chloroform-Methanol.	Supervisor	2014
9) Hafizah Fara Mior Samsudin	Determination of Phenolic Contents and Antioxidant Activity in <i>Strobilanthes crispus</i> by Carbon Dioxide Extraction.	Supervisor	2014
10) Nur Adlina Abd Manan	Cytotoxic Activity of <i>Strobilanthes crispus</i> Leaves Extracted with Ethanol and Water.	Supervisor	2014
11) Nor Adilah Abdullah	Determination of Total Phenolic Compound and Antioxidant Activity of <i>Strobilanthes crispus</i> Extracts.	Supervisor	2014
12) Zakiah Jamaludin	Cytotoxic Activity of <i>Strobilanthes crispus</i> Leaves Extracted with Liquid Carbon Dioxide.	Supervisor	2014
13) Nursyafika Hamidan	Determination of Total Phenolic Contents and Antioxidant Activity in <i>Strobilanthes crispus</i> Leaves Extracted using Subcritical Water Condition.	Supervisor	2015
14) Norliyana Mat Noh	Physico-chemical Characteristics and Sensory Properties of Instant Cereal Beverages.	Supervisor	2016
15) Siti Raihanah Mohd Saleh	Antioxidant Activities in Persimmon Leaves Cookies.	Supervisor	2016
16) Raja Maisarah Raja Lawang	Antioxidant Activities of Persimmon (<i>Diospyros Kaki. L</i>) Leaves Low-Sugar Cookies.	Supervisor	2016
17) Chan Lin Chong	Quality Characteristics of Persimmon Leaves (<i>Diospyros kaki. L</i>) Cookies Supplemented with Defatted Rice Bran Flour.	Supervisor	2016
18) Yoheshni Balakrishnaa	Quality Characteristics of Low-Sugar Cookies Supplemented with Persimmon Leaf Powder and Defatted Rice Bran.	Supervisor	2016
19) Jew Yi Ling	Antioxidant Activities of Persimmon Leaves Cookies Supplemented with Defatted Rice Bran.	Supervisor	2016

20) Nuurshila Mhd Hashim	Quality Characteristics of Persimmon (<i>Diospyros kaki</i> L.) Leaves Cookies.	Supervisor	2016
21) Mohamad Afifi Ismail	Determination of Total Phenolic Contents, Total Flavonoid Contents and Antioxidant Activity in <i>Strobilanthes crispus</i> Leaves Extracted Using Subcritical CO ₂ Soxhlet (SCDS) Extraction.	Supervisor	2016
22) Siti Farhanah Mohd Razali	Fortification of Yellow Alkaline Noodle with <i>Kappaphycus alvarezii</i> Seaweed Puree	Supervisor	2017
23) Nur Hidayatul Nabilah Mohamad Rozaiman	Quality Characteristics of Flat Rice Noodles (Kuetiau) Supplemented with Seaweed Puree.	Supervisor	2017
24) Athiah Nabihah Laizani	Physicochemical Properties and Sensory Attributes in Fish Sausages with Seaweed (<i>Kappaphycus alvarezii</i>).	Supervisor	2017
25) Nurun Nadhirah Latiff	Effect of Chemical and Antioxidant Properties in Biscuits Fortified with Stingless Bee Collected Pollen (<i>Geniotrigona thoracica</i>).	Supervisor	2018
26) Adibah Abdullah	The Effect of Bee Collected Pollen from Stingless Bee (<i>Geniotrigona thoracica</i>) Fortification on the Texture and Colour in Food Systems.	Supervisor	2018
27) Nur Khalishah Mohamad Shah	Antioxidant Activities and Microbial Quality of Fish Sausages Fortified with Bee Pollen Powder (<i>Geniotrigona thoracica</i> sp.).	Supervisor	2018
28) Nurul Ainaa Farhanah Mat Ramlan	Effect of Heat Treatment on the Antibacterial Activity and Antioxidant Properties of <i>Geniotrigona thoracica</i> and <i>Tetragonula carbonaria</i> Honey.	Supervisor	2019
29) Aina Syahirah Md Zin	Effect of Thermal Treatment on Antibacterial Properties and Antioxidants Activity of <i>Heterotrigona itama</i> and <i>Tetragonula carbonaria</i> Honey.	Supervisor	2019
30) Nur Fatimah Safari	Effect of Thermal Treatment on Antibacterial and Antioxidant Activities of <i>Heterotrigona itama</i> and <i>Tetragonula hockingsi</i> Honey.	Supervisor	2019
31) Amirun Afiq Badrul Hisham	Stingless Bee Bread (<i>Heterotrigona itama</i>) Extract as Antioxidant in Fish Sausages.	Supervisor	2020
32) Nur Atifa Mustapa	Stingless Bee Bread (<i>Heterotrigona itama</i>) Extract as Anti-Microbial and Anti-Bacterial Agent in Fish Sausage.	Supervisor	2020
33) Muhammad Azri Abd Rahim	Effects of Thermal Treatment on Phenolic Contents and Antioxidant Properties of <i>Heterotrigona itama</i> and <i>Tetragonula hockingsi</i> Honey.	Supervisor	2020

34) Shahira A Hamid	Phenolic Compounds Content and Antioxidant Activity of <i>Chromolaena odorata</i> and <i>Ageratum conyzoides</i> ,	Supervisor	2020
35) Iliia Natasya Ramli	Effect of Different Geographical Origins and Heat Treatment on the Anti-Bacterial and Anti-Fungal Properties of <i>Heterotrigona itama</i> Honey.	Supervisor	2020
36) Chong Pei Juin	Relationship Between Vitamins and Antioxidants Activities in Honey.	Supervisor	2021
37) Nawar Nabilah Ramli	Amino Acids and Antioxidant Content in Honey and Their Correlation.	Supervisor	2021
38) Nurul Nadhirah Mohd Tom	Correlation of Flavonoids and Antioxidant Activities in Unifloral and Multifloral Honey.	Supervisor	2021
39) Nurkhairina Solehah Saiful Anuar	Correlation of Phenolic Acids and Antioxidants Activities in Honey: A Literature Review.	Supervisor	2021
40) Farah Adilah Md Jaffry	Melissopalynological study, sugar profile, and antioxidant properties of stingless bee (<i>Geniotrigona thoracica</i>) honey.	Supervisor	2022
41) Nur Sharafuna Irdina Mohd Arshad	Melissopalynology study, sugar profile and antioxidant properties of stingless bee honey from <i>Heterotrigona itama</i> species.	Supervisor	2022
42) Norliyana Mohd Rosdi	Melissopalynological study of <i>Antigonon leptopus</i> pollen in stingless bee honey and the relationship with sugar and antioxidant properties.	Supervisor	2022
43) Akmal Fikri Azman	Effect of Storage on Antioxidant and Physicochemical Properties of Stingless Bee Honey as Sweetener for Carbonated Beverage	Supervisor	2023
44) Wan Nur Amira Wan Muen	Effect of Storage on Physicochemical Properties and Antioxidant Activities of Pineapple and Kelulut Honey Carbonated Drink	Supervisor	2023

K. ID PUBLISHING (*Publishing ID*)

	<i>Author ID</i>	<i>Name</i>
<i>Scopus</i>	57147790000	Norhasnida Zawawi
<i>ORC ID</i>	https://orcid.org/0000-0001-7459-5025	Norhasnida Z.

L. RANGKAIAN SOSIAL (*Social Networking*)

<i>Facebook Page</i>	Dr. Norhasnida Zawawi and Research Team https://www.facebook.com/nidaresearch
<i>LinkedIn</i>	Norhasnida Zawawi

<i>Researchgate</i>	Norhasnida Zawawi https://www.researchgate.net/profile/Norhasnida_Zawawi
<i>Google Scholar</i>	Norhasnida Zawawi https://scholar.google.com/citations?user=N_OKDxQAAAAJ&hl=en