CURRICULUM VITAE

Assoc. Prof. Dr. Norhasnida Zawawi

Associate Professor in Food and Nutritional Science

Head, Laboratory of Halal Science Research, Halal Products Research Institute, Universiti Putra Malaysia.

Leader, Halal Healthcare & Wellness University-Driven Research Programme (UDRP), Universiti Putra Malaysia.

Lecturer, Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia.

Honorary Senior Fellow, Queensland Alliance for Agriculture and Food Innovation, The University of Queensland.

Registered Nutritionist, Malaysian Allied Health Professions Council (MAHPC(NUTR)01496).



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SCOPUS ID 57147790000

Professional Profile at a Glance

Food science, nutrition and halal product research · UPM since 2003 · Registered Nutritionist

Functional foods · Halal products · Stingless bee honey · Food standards

70	1,427	2,109	RM 1.59M	79	141
PUBLICATIONS 38 IN Q1–Q2	SCOPUS CITATIONS H-INDEX 22	SCHOLAR CITATIONS H-INDEX 24	12 RESEARCH GRANTS 8 AS LEAD	CONFERENCE & INVITED TALKS	MANUSCRIPTS REVIEWED 72 JOURNALS

SCOPUS RESEARCH IMPACT

- **59.1%** of documents in the top 25% most cited worldwide
- **61.4%** of documents in top 25% journals by CiteScore
- **1.07 FWCI** Field-Weighted Citation Impact: cited 7% above the world average for similar papers (1.00 = average)
- **1,185** citing documents
- **SDG 2, 3, 9, 12** 11 documents on SDG 3, Good Health

☆ LANDMARK DISCOVERY

Co-discovered trehalulose, a rare low-GI sugar, as a major sugar in stingless bee honey

Scientific Reports (2020), with The University of Queensland

46,000+	Top 5%
article accesses	of outputs tracked by Altmetric
3	**1**
Wikipedia pages reference it	patent application (MY)

- **Underpins FSANZ Standard 2.8.3 – Native bee honey (2024)**, which requires at least 2% trehalulose
- Cited in AgriFutures Australia's Native Bee RD&E Plan 2022–2027
- Trehaluxe innovation assessed in MOSTI Malaysia Commercialisation Year 2024
- Basis for stingless bee honey standard work in Malaysia, Australia and Asia

LEADERSHIP

- Leader, Halal Healthcare & Wellness Research Programme
- Head, Laboratory of Halal Science Research, HPRI
- Former Head, Food Chemistry Research Laboratory, FSTM
- Institute management, graduate, finance & HR committees
- Desk officer: UQ and National Centre for Food Safety MoUs

POLICY & STANDARDS

- Vice President, Apimondia Asia Task Group, Stingless Bee Honey Standard
- ANBA Honey Committee member, FSANZ Application A1257 (2019–2024)
- MOH Nutrition Expert Work Committee; Codex national committees
- Alternate member, National Beekeeping Technical Committee (MAFI)
- Honorary Senior Fellow, QAAFI, University of Queensland

RECOGNITION & SERVICE

- RUTA-MELI Female International Award (2024)
- APIBA Academic Excellence Award, Emerging Talents (2023)
- Silver medal, teaching innovation (PicTL 2021)
- Editorial board, Int. J. on Bee Sciences; Review Editor, Frontiers in Nutrition

MENTORSHIP & REACH

6	11	54	9
PhD	Master's	Undergrad	In progress

- 36 industry partners in product development and advisory work
- 30 national and international media reports
- Invited talks in Malaysia, Indonesia, Thailand, the Philippines, Australia, Russia and Türkiye

Graduated supervision: 6 PhD · 6 research and 5 coursework Master's · 54 final-year projects

Figures from Scopus, Google Scholar and UPM records as at 20 November 2026

PROFESSIONAL PROFILE

Norhasnida Zawawi is an Associate Professor of food science and nutrition at Universiti Putra Malaysia (UPM), where she has served since 2003, and a Registered Nutritionist with the Malaysian Allied Health Professions Council. She leads the University-Driven Research Programme on Halal Healthcare and Wellness and heads the Laboratory of Halal Science Research at the Halal Products Research Institute, where she also serves on the institute's management, graduate studies, finance, tender and human resource committees. She previously headed the General Research Laboratory of Food Chemistry at the Faculty of Food Science and Technology (2022 – 2024) and has served for more than a decade on faculty committees for curriculum and programme development, research and innovation, industry and community networking, and MoU/MoA implementation. As desk officer for UPM's partnerships with The University of Queensland and the National Centre for Food Safety, and as chair and programme director of national and international seminars and training programmes, she has built a strong record in institutional leadership, strategic collaboration and programme delivery.

Her research develops functional foods and sustainable halal products from Malaysian underutilised resources, particularly stingless bee (kelulut) honey, kenaf seeds, and jackfruit seeds, using physicochemical, bioactive, microbiome, and sensory analyses together with in vitro and in vivo (rat, mouse, and zebrafish) models. Her landmark contribution is the co-discovery, with The University of Queensland, of the rare disaccharide trehalulose as a major sugar in stingless bee honey (Scientific Reports, 2020). The paper has been accessed more than 46,000 times, ranks in the top 5% of all research outputs tracked by Altmetric, is referenced on three Wikipedia pages, and is cited in AgriFutures Australia's Australian Native Bee Strategic Research, Development and Extension Plan (2022 – 2027). The discovery now underpins food regulation: as a member of the Australian Native Bee Association honey committee that prepared Application A1257, she contributed to Food Standards Australia New Zealand (FSANZ) Standard 2.8.3 – Native bee honey (gazetted 22 July 2024), which defines native bee honey in part by a minimum trehalulose content of 2%, and her follow-up Food Chemistry (2022) paper on the unique physicochemical properties of stingless bee honey is cited in FSANZ's supporting risk and technical assessment. Building on this discovery, she holds a Malaysian patent application for isolating trehalulose from stingless bee honey and has advanced the Trehaluxe innovation through the MOSTI Malaysia Commercialisation Year assessment. She has secured RM 1.59 million from 12 research grants, leading eight of them, including the MOSTI International Collaboration Fund, FRGS and industry-funded projects. She has published 70 journal articles and book chapters, 38 of them in Q1 and Q2 journals and 33 as corresponding author, with 1,427 Scopus citations from 1,185 citing documents (h-index 22) and 2,109 Google Scholar citations (h-index 24). Scopus research impact metrics place 59.1% of her documents in the top 25% most cited worldwide and 61.4% in the top 25% of journals by CiteScore, with a Field-Weighted Citation Impact (FWCI) of 1.07, meaning her papers are cited 7% more than the world average for similar publications, and outputs mapped mainly to Sustainable Development Goal 3 (Good Health and Well-being), as well as Goals 2, 9 and 12.

Her expertise is sought in national policy and international standards. She serves on the Ministry of Health's Nutrition Expert Work Committee for health declarations and advertising and on the Ministry of Health's Codex national committees on food labelling and on nutrition and claims, having also been an alternate member of the Codex Subcommittee on Nutrition and Foods for Special Dietary Uses (2013 – 2023). She is an alternate member of the National Beekeeping Industry Development Technical Committee of the Ministry of Agriculture and Food Industries, and previously served on the Department of Standards Malaysia working group for the kelulut honey standard. Internationally, she is Vice President of the Apimondia Asia Task Group for the Stingless Bee Honey Standard and an Honorary Senior Fellow of the Queensland Alliance for Agriculture and Food Innovation. Her work has been recognised with the RUTA-MELI Female International Award (2024), the APIBA Academic Excellence Award for Emerging Talents (2023), a silver medal for teaching innovation (2021) and repeated UPM Excellence in Service and Publication Incentive Awards. She is an editorial board member of the International Journal on Bee Sciences, a Review Editor for Frontiers in Nutrition and has reviewed 141 manuscripts for 72 journals.

She has delivered 79 conference and seminar presentations, including invited, keynote and plenary talks in Malaysia, Indonesia, Thailand, the Philippines, Australia, Russia and Türkiye, and has collaborated with 36 industry partners and many community organisations on product development, technical advisory work and halal awareness programmes, with her research featured in 30 national and international media reports. A committed educator and mentor, she has supervised 6 PhD students, 6 research Master's students, 5 coursework Master's students, and 54 final-year undergraduate research projects to completion, and currently supervises 8 PhD and 1 Master's candidate, several of whom have won national and international awards.

EXPERTISE & MAJOR RESEARCH CONTRIBUTION

PROFESSIONAL EXPERTISE

- Functional food
- Food bioactive compounds
- Halal science
- Pre-clinical studies (in vitro and in vivo)
- National and international food standard development

MAJOR RESEARCH CONTRIBUTION

Discovery of the rare disaccharide trehalulose as the main sugar in stingless bee honey

Fletcher et al., Scientific Reports (2020) 10, 12128. The finding has informed stingless bee honey standards in Malaysia, Australia and the Apimondia Asia region; a minimum of 2% trehalulose is a compositional requirement of FSANZ Standard 2.8.3 – Native bee honey (2024), whose technical assessment cites Zawawi et al., Food Chemistry (2022) 373, 131566.

A PERSONAL DETAILS

FULL NAME	Norhasnida binti Zawawi
TITLE	Associate Professor Dr.
DESIGNATION	Associate Professor
DEPARTMENT / FACULTY	Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia
CURRENT ADDRESS	Laboratory of Halal Science Research, Halal Products Research Institute, Universiti Putra Malaysia, Putra Infoport, 43400 UPM Serdang, Selangor, Malaysia
AREA OF SPECIALISATION	Food Science and Nutritional Science
PROFESSIONAL REGISTRATION	Registered Nutritionist, Malaysian Allied Health Professions Council (MAHPC), Ministry of Health Malaysia – Reg. No. MAHPC(NUTR)01496 (since February 2026)
EMAIL	norhasnida@upm.edu.my

B ACADEMIC QUALIFICATIONS

Qualification	Institution	Period	Area of Specialisation
PhD	University of Nottingham, United Kingdom	2007 – 2011	Nutritional Science
MSc	Universiti Putra Malaysia	2004 – 2007	Nutritional Science
BSc (Hons)	Universiti Kebangsaan Malaysia	2000 – 2003	Food Science and Nutrition

C NATIONAL CONTRIBUTIONS AND COLLABORATIONS

Appointments and administrative posts

Organisation / Committee	Position	Period	Expertise / Contribution
MoU between the Halal Products Research Institute, UPM and the National Centre for Food Safety (NCFS)	**Desk Officer**	Jan 2026 – Ongoing	Coordinating preparation, implementation and monitoring of the MoU; liaison with the partner
Curriculum Review Committee (JKSSK), Master of Functional Food Design (MFFD), Faculty of Food Science and Technology, UPM	**Committee Member**	Jan 2026 – Dec 2027	Curriculum review of the postgraduate programme
Centre for Diagnostic and Nuclear Imaging, Universiti Putra Malaysia	**Associate Researcher**	Dec 2024 – Nov 2027	Researcher on bioactive compounds and brain imaging (first appointed 1 December 2024; reappointed to November 2027)
University-Driven Research Programme: Halal Healthcare and Wellness, Halal Products Research Institute, UPM	**Leader**	Sep 2024 – Ongoing	Leading research on halal healthcare and wellness

Organisation / Committee	Position	Period	Expertise / Contribution
Institute committees, Halal Products Research Institute, UPM (Management; Graduate Studies; Finance and Trust Accounts; Tender and Quotation; Human Resource Development; Industry and Community Networking; Institute Board)	**Member**	May 2024 – Jan 2027	Institute governance and administration
Laboratory of Halal Science Research, Halal Products Research Institute, UPM	**Head**	Mar 2024 – Feb 2027	Leading research on halal product development
Pertanika Journal of Tropical Agricultural Science, UPM	**Editorial Board Member**	Jul 2023 – Jun 2026	Reappointed for 1 Jul 2024 – 30 Jun 2026; supporting the lead editor to raise publication quality and journal impact
Development of New Programme: Master of Food Service Management with Nutrition, FSTM, UPM	**Committee Member**	2023	Programme and curriculum development
MOOC Development Committee, Laboratory Safety Awareness Course, FSTM, UPM	**Committee Member**	2023	Online course development
General Research Laboratory of Food Chemistry, Faculty of Food Science and Technology, UPM	**Head of Laboratory**	Feb 2022 – Feb 2024	Laboratory management and assessment
Research and Innovation Committee, Faculty of Food Science and Technology, UPM	**Member**	2022 – 2024	Faculty research management
Ad Hoc Committee, Laboratory Safety Awareness Assessment (PTKKM), FSTM, UPM	**Committee Member**	2022	Laboratory safety
Laboratory of Halal Science, Halal Products Research Institute, UPM	**Associate Researcher (Interim)**	Apr 2021 – Feb 2024	Research on halal science (food quality and food safety)
National Beekeeping Industry Development Technical Committee (JTPIPN), Ministry of Agriculture and Food Industries	**Alternate Member**	Jan 2021 – Dec 2025	Advising the Ministry on development of the national bee industry
MoU/MoA Implementation Committee, Faculty of Food Science and Technology, UPM (Desk Officer, The University of Queensland)	**Committee Member**	Jan 2021 – Dec 2022	Implementation of faculty MoU/MoA
Persatuan Akademia IKRAM Malaysia (IKRAM Academia)	**Assistant Secretary**	2021 – 2023	Association administration
Development of New Programme: Master of Culinary Science with Nutrition, Faculty of Food Science and Technology, UPM	**Committee Member**	2020 – 2023	Programme and curriculum development
Stingless Bee Working Group, Department of Standards Malaysia	**Member**	Jul 2019 – Oct 2024	Development of the Malaysian stingless bee honey national and international standard
Malaysian Dietitians' Association	**Member**	2019 – 2022	Professional association
Malaysian Institute of Food Technology (MIFT)	**Member**	2019	Professional association
Promotional Video, Bachelor of Science in Food Technology (BSTM), FSTM, UPM	**Coordinator**	2019	Programme promotion
Persatuan Akademia IKRAM Malaysia (IKRAM Academia)	**Member**	2019 – Ongoing	Professional academic association
Malaysian Society for Biochemistry and Molecular Biology (MSBMB)	**Member**	2019 – 2024	Professional scientific society
Ad Hoc Curriculum Review Committee, Master of Food Safety and Quality Assurance, FSTM, UPM	**Committee Member**	2016 – 2017	Curriculum review
Development of New Programme: Bachelor of Science in Food Manufacturing Operations, FSTM, UPM	**Committee Member**	2016	Programme and curriculum development
PINTAR MeSTI BKKM–UPM Collaboration Programme Committee, FSTM, UPM	**Committee Member**	2016	Food safety certification for SMEs

Organisation / Committee	Position	Period	Expertise / Contribution
Wanita IKRAM, Nilai District Branch	**Head**	2016 – 2018	Community leadership
Development of New Programme: Master of Science in Functional Food, Faculty of Food Science and Technology, UPM	**Committee Member**	2016 – 2019	Programme and curriculum development
Faculty Meeting, Faculty of Food Science and Technology, UPM	**Member**	2015 – 2024	Faculty governance
University Self-Accreditation Internal Audit, UPM	**Audit Panel Assessor**	2015	Programme audit
Industry and Community Networking Committee, Faculty of Food Science and Technology, UPM	**Member**	2015 – 2024	Industry and community engagement
Utility Saving Committee, Environmental Management System, FSTM, UPM	**Committee Member**	2014 – 2015	Environmental management
Staff Training Committee, FSTM, UPM	**Committee Member**	2014	Staff development
Laboratory of Halal Science Research, Halal Products Research Institute, UPM (Halal Products Innovation programme)	**Associate Researcher**	2014 – 2015	Halal product innovation research
Codex Subcommittee on Nutrition and Foods for Special Dietary Uses (NFSDU), Ministry of Health Malaysia	**Alternate Member**	2013 – 2023	Food standards and regulations
Codex National Committee on Food Labelling, Ministry of Health, Malaysia	**Member**	2012 – Ongoing	Food labelling and regulations
Nutrition / Nutritional Claims / Advertisement Committee, Ministry of Health, Malaysia	**Member**	2012 – Ongoing	Nutritional claims and regulations
Full Accreditation of the Bachelor of Science in Food Service Management	**Audit Panel Assessor**	2012 – 2014	Auditing of the bachelor's degree
Laboratory of Molecular Biomedicine, Institute of Bioscience, UPM	**Research Associate (Interim)**	2011 – Oct 2021	Probiotics, cell culture, nutrigenomics

Scientific and professional committees, evaluation and service

Year	Organisation / Conference / Activity	Position
2026	Workshop on the Establishment of the Biotechnology Ethics Committee, MOSTI	**Invited Participant**
2026	Halal Executive Course Module Refinement Workshop, Halal Products Research Institute, UPM	**Module Reviewer**
2026	Focus Group Discussion 2026: Status of Edible Insects and Research Direction	**Programme Director**
2026	MRUN Research Officer Grant Scheme (MROGS) – Final Report Evaluation	**Panel Evaluator**
2026	HI-LITE 2026: Halal@IPPH – Laboratory, Insight, Technology & Exhibition	**Chairperson, Organising Committee; Seminar Speaker**
2026	MAKE Toyyib II Workshop: Halal, Natural and Safe Cosmetic Innovation	**Programme Advisor**
2026	LAPSAH Training Week (Series 1): Microplate Reader, DSC and Rheometer Training	**Advisor**
2026	Terminology Evaluation, Faculty of Modern Languages and Communication, UPM	**Expert Referee**
2025	Research proposal examination, Universiti Sains Islam Malaysia (USIM)	**External Examiner**
2025 – 2026	University-Level Research Grant Scheme Evaluation Panel, UPM	**Committee Member**
2025	PhD Research Questionnaire Validation, Faculty of Dentistry, USIM	**Expert Content Validator**
2025	Validation Workshop for the Malaysian Bioethics Guidelines, MOSTI	**Invited Expert Participant**
2025	Book Manuscript Review, Penerbit Universiti Islam Selangor	**Book Manuscript Reviewer**
2025	MRUN Research Officer Grant Scheme (MROGS) – Progress Report Monitoring	**Panel Evaluator**

Year	Organisation / Conference / Activity	Position
2024 – Ongoing	Postgraduate thesis examination, Halal Products Research Institute, UPM	**Internal Examiner**
2024	read@uni Staff Sharing Session, Halal Products Research Institute, UPM	**Speaker**
2024	Karnival Keterjaminan Makanan 2024, UPM	**Exhibitor**
2024	Koir Semarak Merdeka UPM 2024	**Choir Member**
2024	Graduate Seminar, Faculty of Food Science and Technology, UPM	**Panel Evaluator**
2024	HiCoE Application Steering Committee, Halal Products Research Institute, UPM	**Member; Head, Section C1 (Publication)**
2024 – 2025	Vehicle Child Death Prevention Task Force (VICED), IKRAM Academia	**Task Force Member**
2024 – 2025	20th Anniversary Celebration and Commemorative Book, Halal Products Research Institute, UPM	**Chair, Celebration Committee; Lead Editor**
2024	Congress on Sustainable Agriculture and Food Security (COSAFS) 2024, UPM Bintulu	**Session Panel Judge**
2023	Master in Food Safety thesis examination, Faculty of Food Science and Technology, UPM	**Thesis Examiner**
2023	Malaysian Institute of Food Technology (MIFT) e-poster competition	**E-poster Judge**
2023	MRUN Research Officer Grant Scheme (MROGS) – Proposal Evaluation	**Panel Evaluator**
2022	Book Manuscript Review: Stingless Bee – Miracle Insect for Human Benefits, UniSZA Press	**Book Manuscript Reviewer**
2021	Research Instrument Review: KAP Survey Questionnaires for Two Projects with the Nutrition Division, Ministry of Health Malaysia	**Expert Reviewer**
2021	Geran Putra – Inisiatif Putra Muda Proposal Evaluation, UPM	**Grant Evaluator**
2021	2nd Survey Research Design Seminar	**Promotion Committee Member**
2021	Agriculture Technology and Food Sustainability Innovation Seminar	**Poster Judge**
2020	Master of Food Technology (MoFT) Dissertation Research Proposal Seminar (FST5999), FSTM, UPM	**Examiner**
2019 – 2022	Master of Food Safety and Quality Assurance (MoFS) Project Seminars and Thesis Examination (FST5699), FSTM, UPM	**Seminar Evaluator; Juror; Thesis Examiner**
2019 – 2021	Postgraduate Seminar, Faculty of Food Science and Technology, UPM	**Panel Evaluator**
2018	Master's Thesis Examination, UPM	**Thesis Examiner**
2015 – 2019	Institutional Animal Care and Use Committee (IACUC), UPM – Ethics Application Evaluation (4 applications)	**Ethics Evaluator**
2014	Food Science Terminology Dictionary (Kamus Istilah Sains Makanan), Dewan Bahasa dan Pustaka	**Subject Expert and Committee Member**
2012	FSTM Alumni Night 2012 "Food for Fund"	**Protocol and Sponsorship Committee Member**

Collaborations with institutions, government and academia

Year	Partner	Collaboration / Activity	Role
2025	Universiti Putra Malaysia Sarawak	Hari Tumbina Facilitator Training Workshop	**Trainer**
2025	National Centre for Food Safety (NCFS), Ministry of Health Malaysia	Proposed Study: Commercialisation of Insects as Food in Malaysia	**Expert, Proposal Team**
2024	Ministry of Science, Technology and Innovation (MOSTI)	Malaysia Commercialisation Year (MCY) 2024 – Trehaluxe Innovation Assessment	**Innovator and Presenter**
2024	Institute for Medical Research (IMR), Ministry of Health Malaysia	Metabolomic Profiling of Trehalulose-Treated Diabetic Rats	**Project Lead**
2024	National Centre for Food Safety (NCFS), Ministry of Health Malaysia	Strategic Cooperation Meeting	**Institute Representative**

Year	Partner	Collaboration / Activity	Role
2024	Intellectual Property Division, Putra Science Park, UPM	Patent Evaluation: Trehalulose Isolation	**Inventor and Presenter**
2024	Department of Agriculture, Negeri Sembilan	Stingless Bee Honey Quality Innovation Sharing Session	**Invited Expert**
2020 – 2023	Sarawak State Government	Increasing Yield of Brown and Fragrant Rice Using Plant Growth Regulators	**Project Member**
2020	Food Science and Technology Research Centre, Malaysian Agricultural Research and Development Institute (MARDI)	Research Collaboration: Sugars in Stingless Bee Honey and Bee Bread	**Project Leader**

Industry collaborations

Year	Partner	Collaboration / Activity	Role
2026	HI-LITE 2026 strategic partners (Mohd Chan Group, Dr. Anne Skincare, Hospital Pakar An-Nur Hasanah)	HI-LITE 2026 Strategic Partner Visits	**Head of Delegation; HI-LITE 2026 Chairperson**
2026	Rahmah Mawaddah Enterprise	Stingless Bee Honey Research Collaboration	**Project Leader**
2026 – 2028	Bee Agro Synergy Enterprise (BASE)	Consultancy and Living Lab Kelulut, Ladang 10, UPM	**Consultant and Living Lab Supervisor**
2026	My Madu Iqra PLT and Universiti Sains Islam Malaysia (USIM)	Wadi An-Nahl Stingless Bee Farming Course	**Keynote Speaker**
2025 – 2028	Boustead Plantations Berhad (BPlant)	Unique Kelulut Factor and Trehalulose Research Collaboration	**UPM Representative and Project Proponent**
2025	Global Halal Summit 2025	Official Opening Ceremony Organisation	**Organising Collaborator**
2025	EcoCeres Renewable Fuels Sdn Bhd	Courtesy Visit to UPM	**UPM Representative**
2025	My Madu Iqra PLT and Selangor Fruit Valley	Basic Stingless Bee Course (Kursus Asas Kelulut)	**Invited Speaker**
2025	My Madu Iqra PLT	Stingless Bee Seminar and Public Comment on Draft MS 2683	**Invited Speaker**
2024	Food industry clients	Porcine DNA Detection Analysis Services	**Laboratory Head**
2024	Malaysian Chinese Muslim Association (MACMA) and IHRI	Halal Research and Training Collaboration Discussion	**IPPH Representative**
2024	Link Education Malaysia	Professional Service	**Expert Advisor**
2024 – 2025	R H Bee Farms Sdn Bhd (Rimbunan Hijau Group)	UPM–RH Bee Farm Stingless Bee Honey Collaboration	**Principal Investigator**
2024	Fonterra Brands Malaysia Sdn Bhd and Chemopharm Group	International HAPDEL Week 2024	**Advisor**
2024 – 2025	Alpro Pharmacy	UPM–Alpro Stingless Bee Honey Collaboration	**Expert Consultant**
2024 – 2025	Sundrop Fruit Juices Sdn Bhd	Stingless Bee Honey Project	**Academic Advisor**
2024	Sundrop Fruit Juices Sdn Bhd	Development of Stingless Bee-Based Health Beverage Based on Scientific Research	**Principal Investigator**
2024	Sundrop Fruit Juices Sdn Bhd, R H Bee Farms and Sarawak Biodiversity Centre	Sarawak Stingless Bee Honey Project Visit	**Principal Investigator and Presenter**
2024	Sundrop Fruit Juices Sdn Bhd and MINTRED Sarawak	Stingless Bee Honey Project Briefing to MINTRED	**Technical Partner and Presenter**

Year	Partner	Collaboration / Activity	Role
2024	Sundrop Fruit Juices Sdn Bhd and Food Safety and Quality Programme, Ministry of Health	Regulatory Consultation on Health Beverage Labelling and Claims	**Project Lead**
2024	My Iqra Solutions and Selangor Fruit Valley	Basic Stingless Bee Farming Course	**Keynote Speaker**
2023 – 2024	Sundrop Fruit Juices Sdn Bhd and R H Bee Farms Sdn Bhd	Commercialisation of Stingless Bee Honey from Borneo Rainforest	**Expert Advisor**
2023 – 2025	Department of Agriculture, Pahang	Valorization of Agricultural Waste into Value-Added Food Products	**Expert Panel**
2023 – 2025	Leave a Nest and Rohto Pharmaceutical	Contract Research on Jackfruit-Based Products	**Researcher**
2023	Selangor Fruit Valley	Stingless Bee Farm Visit and Honey Sampling	**Visit Leader**
2023 – 2025	Nanka Sdn Bhd	Development of Jackfruit Flour and Jackfruit-Seed-Based Products	**Project Leader and Expert Advisor**
2021 – 2023	Bangi Farm Resort	Product Development Consultation	**Consultant**
2021	FSTM Alumni	Alumni Sharing Experience 2.0	**Project Member**
2021	Dr. Anne Skincare	Dr. Anne L.I.V.E Table Talk	**Panel Speaker**
2021 – 2025	BGR Food Service Sdn Bhd	Honey Quality Evaluation Consultancy	**Lead Consultant**
2021 – 2025	My Iqra PLT (My Madu Iqra)	Stingless Bee Honey Quality Evaluation Consultancy	**Lead Consultant**
2019 – 2023	MyIQRA PLT	Stingless Bee Honey Product Development	**Project Leader**
2019	Selangor Fruits Valley, Rawang	Downstream Product Collaboration	**Project Leader**

Community engagement and collaborations

Year	Partner	Collaboration / Activity	Role
2025 – 2026	Koperasi Komuniti Penduduk Putrajaya Berhad (KKPPB)	Plant-Based and Stingless Bee Honey Product Development	**Project Leader**
2025	Halal Services Laboratory, IPPH	Make Toyyib School-Holiday Programme	**Speaker**
2025	Kompleks As-Sa'adah (MAINS), Hidayah Centre Foundation and Malaysian Reverts Association	Halalan Toyyiban Workshop for Mualaf SME Entrepreneurs	**Speaker**
2024	Koperasi IKRAM Negeri Sembilan Berhad (KINSB)	Sembang Santai Dialogue with the Director of Agriculture, Negeri Sembilan	**Invited Expert**
2024 – 2025	Persatuan Penternak Kelulut Negeri Sembilan (PaterN9)	Stingless Bee Honey Study in Hutan Simpan Setul with the Orang Asli Community	**Project Leader**
2024 – 2025	MACMA and Persatuan Promosi Produk Halal Malaysia (PPPHM)	Halalan Toyyiban Awareness and Halal Certification for SMEs	**Project Team**
2024	Kampar District Health Office and Perak Islamic Religious Department (JAIPk)	KTGS@PTJ Halal Awareness Seminar for Food Entrepreneurs	**Speaker**
2024 – 2025	Bintulu Development Authority (BDA) and UPM Sarawak	UPM–Taman Tumbina Collaboration and Pesta Tumbina 2025: Halal Greenovate for Community	**Programme Advisor and Speaker**
2023	AEON Co. (M) Bhd and Ministry of Health Malaysia	Student Innovative Menu Competition Exhibition	**Guest Lecturer**
2023	SMK Dato' Abu Bakar Baginda, Sepang	SULAM Programme and Bubur Lambuk Programme	**Lecturer-in-Charge**

Year	Partner	Collaboration / Activity	Role
2021 – 2022	Faculty of Agriculture and University Community Transformation Centre (UCTC), UPM	Connecting Agri Needs (CAN) Agropreneur Development Programme	**Speaker; Head, Kelulut Module**
2021	Pertubuhan Jalinan Ukhuwah Wanita Rahmah (JUWARA)	Talk: Madu Kelulut sebagai Suplemen Kesihatan	**Invited Speaker**
2019	SMK Dato' Kelana Petra, Lenggeng, Negeri Sembilan (FSTM Adopted School)	Program Saintis Masuk Kampung 2019	**Programme Director**
2019	IKRAM Junior, Kem Anak Soleh	Young Scientists Slot	**Facilitator**
2017	Maahad Tahfiz As-Sa'idiyyah, Senawang	Innovation and Creativity Talk, Student Orientation Week	**Invited Speaker**
2016	SK Janda Baik, Bentong, Pahang	Program Saintis Masuk Kampung 2016	**Programme Director**
2016	Sekolah Rendah Islam Al-Amin, Nilai	Young Scientists Slot, Kem Anak Soleh	**Project Leader**
2016	Food SMEs (with BKKM, Ministry of Health)	MeSTI Certification Programme for Small and Medium Food Enterprises	**Committee Member**
2016	Maktab Rendah Sains MARA (MRSM) Gemencheh	School Enrichment Model (SEM) Programme	**Mentor**

D INTERNATIONAL CONTRIBUTIONS AND COLLABORATIONS

Appointments and administrative posts

Organisation / Committee	Position	Period	Expertise / Contribution
Apimondia Asia Task Group for Stingless Bee Honey Standard	**Vice President**	May 2023 – Ongoing	Research and documentation for international stingless bee honey standards
AOAC INTERNATIONAL, Southeast Asia Section	**Member**	2023 – 2024	Analytical chemistry
International Journal on Bee Sciences	**Editorial Board Member**	2022 – Ongoing	Scientific journal editorial work
Frontiers in Nutrition	**Review Editor**	2022 – Ongoing	Scientific journal reviewer
MoU between Universiti Putra Malaysia and The University of Queensland	**Desk Officer**	2020 – 2025	Leading collaborative projects and programmes between both universities
Honey Committee, Australian Native Bee Association (ANBA)	**Committee Member**	Jun 2019 – Jul 2024	Prepared FSANZ Application A1257, leading to Food Standard 2.8.3 – Native Bee Honey (gazetted 22 July 2024)
Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, Australia	**Honorary Senior Fellow**	Jan 2019 – Jan 2028	Physicochemical properties of stingless bee (Meliponine) honey
Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, Australia	**Visiting Researcher (Sabbatical)**	Apr 2018 – Dec 2018	Physicochemical properties of stingless bee (Meliponine) honey
Institute of Food Technologists (IFT)	**Member**	2015 – 2016	Food science
Clinical Medicine Laboratory, School of Medicine, University of Nottingham, Royal Derby Hospital, UK	**Researcher**	Jun 2009 – Jun 2010	Adipose tissue explants; lipolysis ex vivo and in vivo
Department of Nutritional Science, School of Biosciences, University of Nottingham, UK	**Laboratory Demonstrator**	2008 – 2010	Food chemistry and analysis

Scientific and professional committees, evaluation and service

Year	Organisation / Conference / Activity	Position
2026	Fourth International Food Research Conference (IFRC) 2026	**Abstract Reviewer**

Year	Organisation / Conference / Activity	Position
2026	International Halal Food & Agrotourism Training (IHFATT) 2026	**Programme Director**
2026	Halal Paradigm Colloquium 2026	**Judge; Secretariat Member; Session Moderator**
2025	Malaysia International Halal Research and Education Conference (MIHREC) 2025	**Chairperson, Oral Presentation Session**
2025	Malaysia International Halal Research and Education Conference (MIHREC) 2025	**Abstract Reviewer**
2025	Focus Group Discussion, MIHREC 2025 Resolution Workshop	**Expert Participant**
2025	13th International Symposium on Applied Engineering & Sciences (SAES) 2025	**Jury**
2024 – 2025	Malaysia International Halal Research and Education Conference (MIHREC) 2025	**Scientific and Publication Committee Member; Lead Editor, e-Book**
2024	International Halal Product Development Conference (IHPDC) 2024	**Advisor**
2024	Third International Food Research Conference (IFRC) 2024	**Organising Committee Member; Technical Manuscript Reviewer**
2023	ASEAN Heritage Sustainable Food Packaging and Commercialization for the Global Market Workshop	**Committee Member**
2023	17th ASEAN Food Conference 2023	**Poster Judge**
2023	Third International Congress on Biological and Health Sciences (ICBH) 2023	**Scientific Committee Member**
2023	5th International Conference on the Medicinal Use of Honey (V-iCMUH) 2023	**Scientific Committee Member**
2023	International Congress on Bee Sciences	**Scientific Committee Member**
2022	Food Science International Seminar: Future Foods Inspired by Traditional Foods, FSTM, UPM	**Programme Director (Lead Organiser)**
2022	CRC Press, Taylor and Francis Group	**Book Proposal Reviewer**
2022	International Congress on Bee Sciences	**Scientific Committee Member**
2021	International Symposium on Applied Engineering and Sciences 2021	**Scientific Committee Member**
2020	International Conference on Food Security and Safety 2020	**Scientific and Technical Committee Member**
2019	International Food Research Conference	**Finance Committee Member**
2017	International Food Research Conference	**Organising and Finance Committee Member; Poster Judge; Session Chair**
2014	International Conference on Advances in Plant Biochemistry and Biotechnology	**Poster Judge**

Collaborations with institutions, government and academia

Year	Partner	Collaboration / Activity	Role
2026	KSAU, Russia, and Islamic Tourism Centre (ITC), Malaysia	IHFATT 2026 Courtesy Visit to ITC	**Head of Delegation**
2025	Islamic Food and Nutrition Council of America (IFANCA), USA	Halal Research Collaboration Meeting	**UPM Representative**
2025	World Halal Council (WHC)	Halal Research Collaboration Meeting	**UPM Representative**
2025	Majlis Ugama Islam Singapura (MUIS), Singapore	Work Visit to MUIS	**Head of Delegation**
2025	Islamic Development Bank Centre of Excellence, Kuala Lumpur	Halal Park 2.0 Design Workshop	**HPRI Representative**
2025	National Research and Innovation Agency (BRIN), Indonesia	Research Collaboration Visit	**Invited Visiting Researcher**
2025	Temasek Polytechnic and MUIS, Singapore	Work Visit and BITEA-HI Programme	**Head of Delegation; Programme Director**

Year	Partner	Collaboration / Activity	Role
2024 – 2026	Kazan State Agrarian University (KSAU) and Academy of Sciences of Tatarstan, Russia	IPPH–KSAU Cooperation and KazanForum Invited Talks	**Invited Speaker**
2024	Bina Nusantara (BINUS) University, Indonesia	Visit to the Halal Products Research Institute	**Host**
2024	Consumers' Association of Uzbekistan	Courtesy Visit to the Halal Products Research Institute	**Host**
2024	Saudi Food and Drug Authority (SFDA), Saudi Arabia	Official Visit to the Halal Products Research Institute	**Host**
2024	Hasanuddin University, Indonesia	Academic and Research Collaboration Visit	**Discussion Lead and Host**
2024	Politeknik Pertanian Negeri Payakumbuh, Indonesia	Collaboration Visit	**Host**
2024	Mindanao State University (MSU), Philippines	Official Visit to the Halal Products Research Institute	**Host and Presenter**
2024	Fatoni University, Thailand	Academic Visit and ICUW 2024	**Invited Guest Speaker**
2023	Ministry of Tourism, Arts and Culture (MOTAC) and ASEAN partners	ASEAN Workshop on Heritage Food Packaging and Commercialisation	**Committee Member; Head of Student Volunteers**
2023	Farmers and agriculture officers from India	Study Visit on Jackfruit Products	**Speaker**
2023	Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland	Research Visit on Stingless Bee Honey	**Visiting Researcher**
2019 – 2028	Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland	Joint Research on Stingless Bee Honey	**Honorary Senior Fellow**

Industry collaborations

Year	Partner	Collaboration / Activity	Role
2024	Consulate General of Malaysia in Xi'an and MCCI China	Malaysia–Northwest China Business Forum 2024	**IPPH Representative**
2023	Gudang Madu Fonda, Indonesia	Stingless Bee Industry Collaboration, Pekanbaru	**Project Leader and Speaker**
2018 – 2023	Sugarbag Bees, Australia	Stingless Bee Honey Product Development; Stingless Bee Industry Challenges – International Seminar 2023	**Project Leader; Programme Director**

E HONOURS AND AWARDS

Year	Award	Awarding Body	Type
2026	**Fifth Place – Poster Competition, Food Safety Conference 2026 (Persidangan Keselamatan Makanan 2026)**	International Food Safety Training Centre (IFSTC), Food Safety and Quality Programme, Ministry of Health Malaysia	Certificate
2026	**Registered Nutritionist (Reg. No. MAHPC(NUTR)01496)**	Malaysian Allied Health Professions Council, Ministry of Health Malaysia	Professional registration
2014, 2016, 2019 – 2025	**Excellence in Service**	Universiti Putra Malaysia	Certificate
2025	**Certificate of Appreciation – Intellectual Property (Patent PI2025004086)**	Faculty of Food Science and Technology, Universiti Putra Malaysia	Certificate
2025	**Excellent – Accepted Abstract for Poster Presentation**	Korean Diabetes Association, International Congress of Diabetes & Metabolism (ICDM) 2025	Travel grant (USD 800)

Year	Award	Awarding Body	Type
2025	**Certificate of Appreciation – Indexed Journal Articles as Corresponding Author (1 Q1, 1 Q2)**	Faculty of Food Science and Technology, Universiti Putra Malaysia	Certificate
2019, 2023, 2024	**Publication Incentive Award**	Research Management Centre, Universiti Putra Malaysia	Award
2024	**Female International Award RUTA-MELI – Eminent Stingless Bee Scientist from Malaysia (Premio Internacional Femenino RUTA-MELI), Mérida, Venezuela, 20 December 2024**	RUTA-MELI (Route of Living Museums of Stingless Bees), Apitherapy and Bioactivity (APIBA) group of the Universidad de Los Andes, Venezuela, and the Estado Mérida Santuario de Angelitas (EMSATA)	Certificate
2023	**APIBA Academic Excellence Award 2023: Emerging Talents (Premio a la Excelencia Académica APIBA 2023: Talentos Emergentes), for her research on the chemical composition of Malaysian stingless bee honeys, Mérida, Venezuela, 29 May 2023**	Apitherapy and Bioactivity (APIBA) Research Group and Laboratory, Universidad de Los Andes, Venezuela	Award
2021	**Silver Medal – International Putra InnoCreative Poster Competition (PicTL 2021), for "Suku-Suku Separuh Tasty and Healthy Menu – An Online Social Media Video Challenge"**	Centre for Academic Development, Universiti Putra Malaysia	Medal
2019 – 2028	**Honorary Senior Fellow**	Queensland Alliance for Agriculture and Food Innovation (QAAFI), The University of Queensland	Conferral
2018	**Best Paper Presenter, International Conference of Probiotics and Food Safety 2018 (co-researcher project)**	Conference organiser	Award
2014	**Winner, "I'm a Scientist, Get Me Out of Here" Programme (non-academic)**	Academy of Sciences Malaysia	Certificate and RM 10,000 grant for school activities
2010	**Hot Topic Poster**	11th International Congress on Obesity	Scientific poster presentation
2007	**Public Higher Education Academic Training Scheme**	Ministry of Education, Malaysia	PhD scholarship
2006	**Silver Medal – UPM Research and Innovation Showcase**	Universiti Putra Malaysia	Medal
2004	**Public Higher Education Academic Training Scheme**	Ministry of Education, Malaysia	Master's scholarship
—	**Certificate of Recognition – Member, Reading Community, UPM Book Club**	UPM Reading Culture Steering Committee, Sultan Abdul Samad Library, UPM	Certificate

F INTELLECTUAL PROPERTY

Country	Application No.	Title	Inventors and Patent Owner
Malaysia	PI2025004086	Assembly for Isolating Thermally Labile Organic Product Such As Trehalulose Sugar from Stingless Bee Honey and Method Thereof	Norhasnida Zawawi, Arif Zaidi Jusoh and Zurina Zainal Abidin (Universiti Putra Malaysia)

G LIST OF PUBLICATIONS

Reverse chronological order. ***Bold*** *= N. Zawawi; underlined = corresponding author; quartile as listed in the original CV.*

2026

1. Mohd Noor, R.A., Ahmad, H.F., Sabri, S., Yusof, Y.A., Mohd Hashim, A., Abd Rashed, A., **Zawawi, N.** Physicochemical and microbiota shifts signal indirect adulteration in Malaysian stingless bee honey: An exploratory controlled sucrose-feeding study. *Food Control 194 (2027), 112771.* **Q1** https://doi.org/10.1016/j.foodcont.2026.112771

2. Nevara, G.A., Abdul Latif, N.A., Jaidi, N.I., Saeed, A., **Zawawi, N.** Culinary Potential of Jackfruit (Artocarpus heterophyllus) Seed Milk as a Substitute for Dairy and Coconut Milk in Ice Cream and Kuih Talam Pandan. *Journal of Culinary Science & Technology.* https://doi.org/10.1080/15428052.2026.2746761

3. **Zawawi, N.**, Zaini, N.S., Md Razip, N.N., Mat Ramlan, N.A.F., Khaza'ai, H., Ismail, N., Ramli, N.S., Ng, J., Mohd Nawi, M.N., Jusoh, A.Z., Zainal Abidin, Z. Trehalulose-driven modulation of glucose metabolism and insulin sensitivity shows treatment-comparable effects in obesity-related dysglycemia from stingless bee honey and its isolated bioactive Trehaluxe. *Obesity Reviews 27(S1), International Congress on Obesity abstracts, Poster P360 (Conference abstract).* **Q1** https://doi.org/10.1111/obr.70191

4. Abdullah, F.I., Nevara, G.A., Azmi, N.A.N, **Zawawi, N.**, Yusof, Y.A. Stingless bee honey as a potential substrate for sophorolipid biocatalysis: A conceptual review on sustainability and food applications. *Biocatalysis and Agricultural Biotechnology 75, 104125.* **Q1** https://doi.org/10.1016/j.bcab.2026.104125

5. Kembabazi, S., Muranga, F., Mutambuka, M., Mugampoza, E., **Zawawi, N.** Physicochemical drivers of resistant starch and comparative suitability of East African Highland cooking banana cultivars (Musa acuminate, AAA) for food industry applications. *Cogent Food and Agriculture.* **Q2** https://doi.org/10.1080/23311932.2026.2697108

6. Saeed, A., Anwar, F., Mohd Adzahan, N., Wan Ibadullah, W.A., Mahmud-Ab-Rashid, N., Bhandari, B., **Zawawi, N.** Underutilized Tropical Seeds as a Source for Development of Sustainable Plant-Based Milk Alternatives – A Review. *Food Reviews International.* **Q1** https://doi.org/10.1080/87559129.2025.2513011

7. Saeed, A., Anwar, F., Mohd Adzahan, N., Wan Ibadullah, W.Z., **Zawawi, N.** Dual Thermal Valorization of Jackfruit Seeds for Nutritionally Tailored Plant-Based Milk Alternative. *Journal of Food Composition and Analysis 150, 108836.* **Q1** https://doi.org/10.1016/j.jfca.2025.108836

8. Mohd Noor, R.A., Wan Mohd Adnan, W.N.A., Md Jafrry, F.A., Jamian, S., Fletcher, M.T., **Zawawi, N.** Indirect Adulteration in Stingless (Kelulut) Bee Honey: Influence of Artificial Feeding on Yield and Colony Response. *International Journal of Tropical Insect Science.* **Q3** https://doi.org/10.1007/s42690-026-01762-1

9. Padmanabhan, K., Abd Rahim, M.H., Rukayadi, Y., **Zawawi, N.**, Abdul Jabar, N.A., Chong, K.H., Nor-Khaizura, M.A.R. Simulation of gastrointestinal conditions and antagonistic potential of probiotic-fermented tomato–watermelon juice. *Foodborne Pathogens and Disease (Article in press).* https://doi.org/10.1177/15353141261472226

10. Mahmood, K., Abd. Razak, H.K., Yusof, Y.A., **Zawawi, N.**, Sarbini, S.R. Potential application of Eucalyptus spp. as bioproducts and the circular economy impact on the industries and society. *Publisher: Springer, Cham Book: Sustainable Eucalyptus Forestry in Southeast Asia: Balancing Socio-Economic Benefits and Environmental Impact with Innovative Technologies Chapter: Chapter 9, pp. 163-175.* https://doi.org/10.1007/978-3-032-21343-3_9

2025

11. Md Jafrry, F.A., Mat Ramlan, N.A.F., Zaini, N.S., Mohd Arshad, N.S.I., Mohd Rosdi, N., Megat Wahab, P.E., **Zawawi, N.** Sugar profile and antioxidant properties of Cocos nucifera floral nectar solution as selected feed source for production of high-quality stingless bee honey. *International Food Research Journal 32(5).* **Q4** https://doi.org/10.47836/ifrj.32.5.15

12. Ridzwan, M.H., Abidin, Z.Z., **Zawawi, N.**, Jusoh, A.Z. Assessing a strategy to recover trehalulose sugar from stingless bee honey Geniotrigona thoracica sp. via cation exchange adsorption. *Food Chemistry.* **Q1** https://doi.org/10.1016/j.foodchem.2025.145317

13. Kembabazi, S., Mutambuka, M., **Zawawi, N.**, Ediriisa, M., Shukri, R. Optimizing extrusion for maxium resistant starch: Unlocking the potential of banana flour. *Measurement:Food.* **Q2** https://doi.org/10.1016/j.meafoo.2025.100238

14. Padmanabhan, K., Rahim, M.H., Rukayadi, Y., **Zawawi, N.**, Chong, K.H., Mohammad Sabri, N.S., Jiang, S., Abdul Jabar, N.A., Nor-Khaizura, M.A.R.,. A Systematic Literature Review on the Effectiveness of Lycopene and Probiotics in Eradicating the Helicobacter pylori Causing Gastritis. *Nutrition and Health.* **Q3** https://doi.org/10.1177/02601060251349878

15. Kembabazi, S., Mutambuka, M., Shukri, R., Anwar, F., **Zawawi, N.** Unlocking the Potential of Resistant Starches from Underutilized Tropical Fruits as Substrates for Fermentation into Short-chain Fatty Acids. *Journal of Functional Foods Vol. 124, 106630.* **Q1** https://doi.org/10.1016/j.jff.2024.106630

16. Zaini, N.S., Md Razip, N.N., Mat Ramlan, N.A.F., Khaza'ai, H., Ismail, N., Ramli, N.S., et al., **Zawawi, N.** Supplementation of trehalulose in stingless bee honey improved glucose tolerance and insulin sensitivity in Type 2 diabetic-induced rats in vivo. *Proceedings of the Nutrition Society 84(OCE3) (Conference abstract).*

2024

17. Nurul Ainaa Farhanah Mat Ramlan, Farah Adilah Md Jafrry, Nur Sharafuna Irdina Mohd Arshad, Norliyana Mohd Rosdi, **Norhasnida Z**awawi. Quantification of The Rare Sugar Trehalulose and Antioxidant Activities of Stingless Bee Honey Produced in Three Consecutive Years. Editors: Norihan Md Arifin, Wan Mohd Syazwan Wan Solahudin, and Muhammad Khairul Adib Muhammad Yusof. *Publisher:Faculty of Science, Universiti Putra Malaysia Book: The 7th International Conference for Women in Science Without Borders Chapter: Chapter 8 eISBN: 978-629-96914-1-9. Page 38-46.* https://usercontent.one/wp/women-in-science-without-borders.network…

18. Nur Syamimi Zaini, Roselina Karim, Ahmad Faizal Abdull Razis, Wan Zunairah Wan Ibadullah, **Norhasnida Z**awawi. Comparative Analysis of Ultra-High-Performance Liquid Chromatography-Mass Spectrometry and Antioxidant Properties Between Kenaf (Hibiscus cannabinus L.) Seed and Soybean (Glycine max) Milk Substitutes. Editors: Norihan Md Arifin, Wan Mohd Syazwan Wan Solahudin, and Muhammad Khairul Adib Muhammad Yusof. *Publisher:Faculty of Science, Universiti Putra Malaysia Book: The 7th International Conference for Women in Science Without Borders Chapter: Chapter 6 eISBN: 978-629-96914-1-9. Page 61-75.* https://usercontent.one/wp/women-in-science-without-borders.network…

19. Yogaletchumy S, **Zawawi N**, Salleh AB, Oslan SN, Ashaari NS, Amir Hamzah AS, Sabri S. Trehalulose: Exploring its benefits, biosynthesis, and enhanced production techniques. *Carbohydrate Research.* **Q2** https://doi.org/10.1016/j.carres.2024.109293

20. Nevara GA, Muhammad SKSM, **Zawawi N.**, Mustapha NA, Karim R. Valorization of Kenaf Seeds as Potential Food Ingredient with Health Benefits. Editors: Sundari RS, Belliturk K, Mushtaq Z and Ahmad F.. *Publisher: Iksad Publishing House Book: Water-Air-Soil for Sustainable Agriculture and People Well-Being Chapter: Chapter 8. Page 148-161 ISBN: 978-625-367-670-4.* https://dx.doi.org/10.5281/zenodo.10841254

21. Nevara, G.A., Muhammad, S.K.S., **Zawawi, N.**, Mustapha, N.A., Karim, R. Fractionation and physicochemical characterization of dietary fiber of kenaf (Hibiscus cannabinus L.) seed. *Journal of The Science of Food and Agriculture.* **Q1** https://doi.org/10.1002/jsfa.13208

22. Mat Ramlan, N.A.F., Mohamad Azman, E., Kharidah, M., Jusoh, A.Z., Johari, N.A., Yusof, Y.A., **Zawawi, N.** Physicochemical Homogeneity of Stingless Bee Honey (Heterotrigona itama) Produced in the West Coast, East Coast and Inland Area of Peninsular Malaysia. *Journal of The Science of Food and Agriculture.* **Q1** https://doi.org/10.1002/jsfa.13067

23. Hungerford, N., **Zawawi, N.**, Zhu, T., Carter, S.J., Melksham, K.J., Fletcher, M.T. Analysis of pyrrolizidine alkaloids in stingless bee honey and identification of a botanical source as Ageratum conyzoides. *Toxins.* **Q1** https://doi.org/10.3390/toxins16010040

2023

24. Zulhilmi Cheng, M.Z.S., **Zawawi, N.**, Ooi, D.J., Chan, K.W., Ismail, N., Ishak, N.A., Mohd Esa, N. In vitro Investigation of Antioxidant and Antidiabetic Properties of Phenolic-Rich Extract from Stingless Bee Honey (Heterotrigona itama). *Malaysian Journal of Medicine and Health Sciences.* https://doi.org/10.47836/mjmhs.19.6.19

25. Arif Zaidi, J., **Zawawi, N.**, Ramlan, N.A.F.M., Nor Fadhilah, S. Analysis of Trehalulose in Kelulut Honey Samples via HPLC-MS. *Food Research 6(Suppl. 2):278-283.* https://www.myfoodresearch.com/uploads/8/4/8/5/84855864/_37fr-nfts-...

26. Shafiq Zulhilmi Cheng, M.Z., Zulkhairi Amin, F.A., **Zawawi, N.**, Chan, K.W., Ismail, N., Ishak, N.A. Mohd Esa, N. Stingless Bee (Heterotrigona Itama) Honey and Its Phenolic-Rich Extract Ameliorate Oxidant–Antioxidant Balance via KEAP1-NRF2 Signalling Pathway. *Nutrients 15(13), 2835.* **Q1** https://doi.org/10.3390/nu15132835

27. 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.** In vivo Toxicity Assessment of Potential Probiotic Bacillus amyloliquefaciens HTI-19 isolated from Stingless Bee (Heterotrigona itama) Honey. *Nutrients 15(10), 2390.* **Q1** https://doi.org/10.3390/nu15102390

28. Mohamat, R.N., Mohammad Noor, N.R.A., Yusof, Y.A., Sabri, S., **Zawawi N.** Differentiation of High-Fructose Corn Syrup Adulterated Kelulut Honey Using Physicochemical, Rheological, and Antibacterial Parameters. *Foods 12(8), 1670.* **Q1** https://doi.org/10.3390/foods12081670

2022

29. Vit, P., 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. A Novel Integrative Methodology for Research on Pot-honey Variations During Post-harvest. *Sociobiology.* https://doi.org/10.13102/sociobiology.v69i4.8251

30. Rahim, F. N., Ibadullah, W. Z., Saari, N., Mustapha, N. A., Shukri, R., **Zawawi, N.**, Karim, R., & Rashedi, I. F. Comparison of different protein extraction methods of rice bran protein concentrates. *Asia-Pacific Journal of Science and Technology 27(06).* https://doi.org/10.14456/apst.2022.101

31. Zaini, N.S., Karim, R. Abdull Razis, A.F., Soulol Hamid, N.F. and **Zawawi, N.** A pilot study of toxicological safety evaluation in acute and subacute (28-day) oral assessments of kenaf seed beverage in rats. *Food Research International.* **Q1** https://doi.org/10.1016/j.foodres.2022.111988

32. Zaini, N.S., Karim, R. Abdull Razis, A.F. and **Zawawi, N.** Utilizing Nutritional and Polyphenolic Compounds in Underutilized Plant Seeds for Health Application. *Molecules.* **Q2** https://doi.org/10.3390/molecules27206813

33. Nevara, G.A.N., Giwa Ibrahim, S., Syed Muhammad, S.H., **Zawawi, N.**, Mustapha, N.A. and Karim, R. Oilseed meals into foods: An approach for the valorization of oilseed by-products. *Critical Reviews in Food Science and Nutrition.* **Q1** https://doi.org/10.1080/10408398.2022.2031092

34. **Zawawi, N.**, Zhang, J., Hungerford, N.L., Yates, H.S.A., Webber D.C., Farrell, M., Tinggi, U., Bhandari, B. and Fletcher, M.T. Unique physicochemical properties and rare reducing sugar trehalulose mandate new international regulation for stingless bee honey. *Food Chemistry 373, 131566.* **Q1** https://doi.org/10.1016/j.foodchem.2021.131566

35. Nevara, G.A., Muhammad, S.K.S., **Zawawi, N.**, Mustapha, N.A., Karim, R. Alternative dietary fiber sources from kenaf (Hibiscus cannabinus L.) seeds and their by-products. *Jurnal Gizi dan Pangan 17(3), 167-176.*

2021

36. Mat Ramlan, N.A.F, **Zawawi, N.** Chapter 13: Diversity in Stingless Bee Honey Profiles and Implications of Trehalulose Discovery as One of The Main Sugars in Stingless Bee Honey. Coordinator: Abu Hassan Jalil Editor: David W. Roubik. *Publisher: The International Bee Research Association Book: Malaysian Meliponiculture & Beyond Inc. Stingless Bee Conservation ISBN: 978-1-913811-06-8.*

37. Nevara, G.A.N., Syed Muhammad, S.H., **Zawawi, N.**, Mustapha, N.A. and Karim, R. Physicochemical and functional properties of carbohydrate-protein gum extracted from kenaf (Hibiscus cannabinus L.) seed. *International Journal of Food Science and Technology.* **Q2** https://doi.org/10.1111/ijfs.15421

38. Mat Ramlan, N.A.F, Md Zin, A.S., Safari, N.F., Chan K.W. and **Zawawi, N.** Application of heating on antioxidant and antibacterial properties of Malaysian and Australian stingless bee honey. *Antibiotics 10(11), 1365.* **Q1** https://doi.org/10.3390/antibiotics10111365

39. **Zawawi, N.**, Chong, P.J., Mohd Tom, N.N., Anuar, N.S.S., Mohammad, S.M., Ismail, N. and Jusoh, A.Z. Establishing Relationship between Vitamins, Total Phenolic and Total Flavonoid Content and Antioxidant Activities in Various Honey Types (Review). *Molecules 26, 4399.* **Q2** https://doi.org/10.3390/molecules26154399

40. Mat Ramlan, N.A.F, Mohammad, S.M., Karim, R., Syed Muhammad, S.K. and **Zawawi, N.** Nutritional Composition, Techno-Functional Properties and Sensory Analysis of Pan Bread Fortified with Kenaf Seeds Dietary Fibre. *Sains Malaysiana Volume 50, No. 11.* **Q4** http://doi.org/10.17576/jsm-2021-5011-12

41. Muhialdin B.J., **Zawawi, N.**, Abdull Razis A. F., Bakar, J. and Zarei, M. Antiviral activity of fermented foods and their probiotics bacteria towards respiratory and alimentary tracts viruses (Review). *Food Control.* **Q1** https://doi.org/10.1016/j.foodcont.2021.108140

42. Nevara, G.A.N., Syed Muhammad, S.H., **Zawawi, N.**, Mustapha, N.A. and Karim, R. Dietary Fiber: Fractionation, Characterization and Potential Sources from Defatted Oilseeds (Review). *Foods 10(4), 754.* **Q2** https://doi.org/10.3390/foods10040754

43. Mohammad, S.M., Badrul Hisham, A.A., Mustafa, N.A., Chan, K.W and **Zawawi, N.** Proximate Analysis, Antioxidant Activity, and Antibacterial Activity of Fish Sausages Fortified with Bee Bread Extract. *Journal of Food Quality.* **Q3** https://doi.org/10.1155/2021/6657553

44. Mohammad, S.M., Mahmud-Ab-Rashid, N.-K. and **Zawawi, N.** Stingless Bee-Collected Pollen (Bee Bread): Chemical, Health Benefits and Microbiological Properties (Review). *Molecules 26 (4) 957.* **Q2** https://doi.org/10.3390/molecules26040957

2020

45. Hungerford, N.L., Fletcher, M.T. and **Zawawi, N.** Study gets the buzz on stingless bee honey. *The Science Breaker. 7(1).* https://doi.org/10.25250/thescbr.brk453

46. Ngalimat, M.S., Raja Abd Rahman, R.N.Z., Yusof, M.T., Amir Hamzah, A.S., **Zawawi, N.** and Sabri, S. A Review on the Association of Bacteria with Stingless Bees (Suatu Ulasan tentang Perkaitan Bakteria dengan Kelulut). *Sains Malaysiana 49(8):1853- 1863.* **Q4** http://dx.doi.org/10.17576/jsm-2020-4908-08

47. Fletcher, M.T., Hungerford, N.L., Webber, D., Carpinelli de Jesus, M., Zhang, J., Stone, I.S.J., Blanchfield, J.T., **Zawawi, N.** Stingless Bee Honey, a Novel Source of Trehalulose: A Biologically Active Disaccharide with Health Benefits. *Scientific Reports 10, 12128.* **Q1** https://doi.org/10.1038/s41598-020-68940-0

48. Mohammad, S.M., Mahmud-Ab-Rashid, N.-K., **Zawawi, N.** Probiotic Properties of Bacteria Isolated from Bee Bread of Stingless Bee Heterotrigona itama. *Journal of Apicultural Research.* **Q1** https://doi.org/10.1080/00218839.2020.1801152

49. Karim, R., Noh, N.A.M., Ibadulllah, W.Z.W., **Zawawi, N.**, Saari, N. Editor: Małgorzata Ziarno. Kenaf (Hibiscus cannabinus L.) Seed Extract as a New Plant-Based Milk Alternative and Its Potential Food Uses. *In Tech Open. Book: Milk Substitutes.* https://doi.org/10.5772/intechopen.94067

50. Mohammad, S.M., Mahmud-Ab-Rashid, N.-K., **Zawawi, N.** Botanical Origin and Nutritional Values of Bee Bread of Stingless Bee (Heterotrigona itama) from Malaysia. *Journal of Food Quality.* **Q3** https://doi.org/10.1155/2020/2845757

2019

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H JOURNAL PEER REVIEW

Review Editor, Frontiers in Nutrition (2022 – ongoing). Manuscripts reviewed for international and national journals (2012 – 2026) are listed below.

Latest	Journal	Publisher	Index	Quartile	Reviews	Review Dates
Nov 2026	**Advances in Agricultural and Food Research Journal**	HH Publisher	Non-indexed	–	**1**	Nov 2026
Nov 2026	**European Food Research and Technology**	Springer Nature	JCR	**Q2**	**1**	Nov 2026
Nov 2026	**Malaysian Journal of Medicine and Health Sciences**	Universiti Putra Malaysia	Scopus	**Q4**	**1**	Nov 2026
Sep 2026	**Food Research International**	Elsevier	JCR	**Q1**	**13**	Sep 2026, Sep 2024, Aug 2024, 2023 (×9), 2022
Jun 2026	**Journal of Apicultural Research**	Taylor & Francis	JCR	**Q2**	**5**	Jun 2026, Apr 2025, Dec 2024, 2021, 2020
Jun 2026	**Critical Reviews in Food Science and Nutrition**	Taylor & Francis	JCR	**Q1**	**1**	Jun 2026
May 2026	**Drug and Chemical Toxicology**	Taylor & Francis	JCR	**Q3**	**1**	May 2026
Mar 2026	**Journal of Tropical Agricultural Science (Pertanika)**	Universiti Putra Malaysia	JCR (ESCI)	**Q3**	**2**	Mar 2026 (×2)
Mar 2026	**Comprehensive Reviews in Food Science and Food Safety**	Institute of Food Technologists / Wiley	JCR	**Q1**	**1**	Mar 2026
Mar 2026	**Current Opinion in Insect Science**	Elsevier	JCR	**Q1**	**1**	Mar 2026

Latest	Journal	Publisher	Index	Quartile	Reviews	Review Dates
Feb 2026	**ACS Food Science & Technology**	American Chemical Society	JCR (ESCI)	**Q3**	**4**	Feb 2026, Nov 2025, Mar 2025, 2021
Dec 2025	**Food Chemistry**	Elsevier	JCR	**Q1**	**3**	Dec 2025 (×2), Mar 2025
Sep 2025	**Journal of the Science of Food and Agriculture**	Wiley / Society of Chemical Industry	JCR	**Q1**	**3**	Sep 2025, May 2025, 2020
Jul 2025	**Journal of Food Composition and Analysis**	Elsevier	JCR	**Q1**	**5**	Jul 2025, Dec 2024, Oct 2024, Sep 2024, Aug 2024
May 2025	**Carbohydrate Research**	Elsevier	JCR	**Q3**	**1**	May 2025
May 2025	**Applied Food Research**	Elsevier	JCR (ESCI)	**Q2**	**1**	May 2025
Mar 2025	**Trends in Food Science & Technology**	Elsevier	JCR	**Q1**	**1**	Mar 2025
Feb 2025	**PLOS ONE**	Public Library of Science (PLOS)	JCR	**Q1**	**1**	Feb 2025
Dec 2024	**Scientific Reports**	Springer Nature	JCR	**Q1**	**1**	Dec 2024
Oct 2024	**Food and Humanity**	Elsevier	JCR (ESCI)	**Q2**	**3**	Oct 2024, Aug 2024, Feb 2024
Sep 2024	**Current Research in Food Science**	Elsevier	JCR	**Q1**	**2**	Sep 2024, 2023
Sep 2024	**Food Reviews International**	Taylor & Francis	JCR	**Q1**	**1**	Sep 2024
Aug 2024	**Journal of Food Quality**	Wiley	JCR	**Q2**	**2**	Aug 2024, 2023
Aug 2024	**Food Hydrocolloids for Health**	Elsevier	JCR (ESCI)	**Q1**	**1**	Aug 2024
Aug 2024	**Journal of Food Processing and Preservation**	Wiley	JCR	**Q3**	**2**	Aug 2024, 2017
Feb 2024	**Veterinary World**	Veterinary World	JCR	**Q2**	**1**	Feb 2024
2024	**Nutrition Reviews**	Oxford University Press	JCR	**Q1**	**1**	2024
2024	**International Journal of Food Science**	Wiley (Hindawi)	JCR (ESCI)	**Q2**	**1**	2024
2023	**Heliyon**	Cell Press / Elsevier	JCR	**Q1**	**7**	2023, 2022, 2021 (×4), 2020
2023	**Foods**	MDPI	JCR	**Q1**	**6**	2023, 2022 (×5)
2023	**Food Science and Nutrition**	Wiley	JCR	**Q2**	**4**	2023 (×3), 2022
2023	**Malaysian Journal of Science**	Universiti Malaya	Scopus	**–**	**1**	2023
2023	**Sains Malaysiana**	Universiti Kebangsaan Malaysia	JCR	**Q4**	**4**	2023, 2022, 2016 (×2)
2023	**Frontiers in Bioengineering and Biotechnology**	Frontiers	JCR	**Q1**	**1**	2023
2023	**Marine Drugs**	MDPI	JCR	**Q1**	**1**	2023
2023	**Journal of Agriculture and Food Research**	Elsevier	JCR	**Q1**	**1**	2023
2023	**Cogent Food & Agriculture**	Taylor & Francis	JCR (ESCI)	**Q2**	**1**	2023
2023	**Sustainable Chemistry and Pharmacy**	Elsevier	JCR	**Q2**	**1**	2023
2023	**JSFA Reports**	Wiley / Society of Chemical Industry	Non-indexed	**–**	**1**	2023

Latest	Journal	Publisher	Index	Quartile	Reviews	Review Dates
2023	**Molecules**	MDPI	JCR	**Q2**	**1**	2023
2023	**Current Microbiology**	Springer Nature	JCR	**Q3**	**1**	2023
2023	**Arthropod-Plant Interactions**	Springer Nature	JCR	**Q2**	**1**	2023
2022	**Food Bioscience**	Elsevier	JCR	**Q1**	**5**	2022, 2021 (×3), 2020
2022	**Sustainability**	MDPI	JCR	**Q2**	**1**	2022
2022	**International Journal of Electrical and Computer Engineering**	Institute of Advanced Engineering and Science	Scopus	**–**	**1**	2022
2022	**Malaysian Journal of Analytical Sciences**	Malaysian Analytical Sciences Society	Scopus	**Q4**	**2**	2022, 2017
2022	**Journal of Food Biochemistry**	Wiley	JCR	**Q2**	**3**	2022, 2021, 2019
2022	**Materials Today: Proceedings**	Elsevier	Scopus	**–**	**3**	2022, 2021 (×2)
2022	**Chemical Papers**	Springer Nature	JCR	**Q3**	**1**	2022
2022	**International Journal of Environmental Research and Public Health**	MDPI	JCR	**Q2**	**1**	2022
2022	**Iranian Journal of Veterinary Research**	Shiraz University	Scopus	**Q3**	**1**	2022
2022	**Agriculture**	MDPI	JCR	**Q1**	**1**	2022
2022	**Frontiers in Nutrition**	Frontiers	JCR (SCIE)	**Q1**	**2**	2022 (×2)
2022	**ASM Science Journal**	Academy of Sciences Malaysia	Scopus	**Q4**	**1**	2022
2021	**Journal of Sustainability Science and Management**	Universiti Malaysia Terengganu	Scopus	**–**	**1**	2021
2021	**Saudi Journal of Biological Sciences**	Elsevier	JCR	**Q2**	**1**	2021
2021	**Antioxidants**	MDPI	JCR	**Q1**	**1**	2021
2021	**Evidence-Based Complementary and Alternative Medicine**	Hindawi	JCR	**Q2**	**3**	2021 (×3)
2021	**Applied Sciences**	MDPI	JCR	**Q2**	**1**	2021
2021	**Annals of Microbiology**	Springer Nature	JCR	**Q2**	**1**	2021
2021	**Biocatalysis and Agricultural Biotechnology**	Elsevier	JCR (ESCI)	**Q1**	**1**	2021
2021	**Malaysian Journal of Microbiology**	Malaysian Society for Microbiology	Scopus	**Q4**	**1**	2021
2020	**Asian Journal of Biotechnology and Genetic Engineering**	SCIENCEDOMAIN International	Non-indexed	**–**	**1**	2020
2020	**Jurnal Teknologi**	Universiti Teknologi Malaysia	JCR (ESCI)	**Q4**	**4**	2020 (×2), 2015 (×2)
2020	**Journal of Oil Palm Research**	Malaysian Palm Oil Board	JCR	**Q3**	**2**	2020, 2018
2020	**Food Science and Technology International**	SAGE	JCR	**Q3**	**1**	2020
2020	**Erciyes Medical Journal**	Erciyes University	JCR (ESCI)	**Q4**	**1**	2020
2019	**International Food Research Journal**	Universiti Putra Malaysia	JCR (SCIE)	**Q4**	**4**	2019, 2016 (×2), 2012

Latest	Journal	Publisher	Index	Quartile	Reviews	Review Dates
2019	**Pertanika Journal of Scholarly Research Reviews**	Universiti Putra Malaysia	Non-indexed	–	**1**	2019
2016	**Journal of Applied Pharmaceutical Science**	Open Science Publishers	Scopus	**Q3**	**1**	2016
2015	**The Philippine Agricultural Scientist**	University of the Philippines Los Baños	Scopus	**Q4**	**1**	2015
2014	**Perintis eJournal**	Perintis	Non-indexed	–	**1**	2014

Total: 141 manuscripts reviewed for 72 journals (56 JCR-indexed, 11 Scopus-indexed). Index status and quartile (best category) based on the latest Journal Citation Reports and Scopus/SJR listings.

I CONFERENCE AND SEMINAR PRESENTATIONS

Invited talks, oral and poster presentations, and forum panels.

2026

1. **National Conference on Ageing (NCA) 2026: "Intersectionality and Inequities in Later Life: Advancing Health, Social and Technological Solutions for Ageing", Malaysian Research Institute on Ageing (MyAgeing), UPM, KLGCC Convention Centre, Kuala Lumpur (19–21 October 2026)** | **Oral Presenter: Amira Hasnanuha Ulayya**
   Amira Hasnanuha Ulayya, **Norhasnida Z**awawi. *In Vivo Glycemic Suppression by Porang Glucomannan (Amorphophallus muelleri) Starch Matrices: Establishing Foundation for Low-GI Dysphagia Bigels.*
2. **XVII International Economic Forum "Russia – Islamic World: KazanForum 2026", Kazan, Republic of Tatarstan, Russia (13 May 2026) – Session "Closed-loop Bioeconomics: Halal and Organic Products as Drivers of Innovation" (co-organised by Kazan State Agrarian University and the Academy of Sciences of the Republic of Tatarstan)** | **Invited Speaker (online)**
   Norhasnida Zawawi. *Insect Byproducts – Halal Innovation in the Closed-Loop Bioeconomy.*
3. **Food Safety Conference 2026 (Persidangan Keselamatan Makanan 2026): "New Innovation and Technology – Challenge or Opportunity?", International Food Safety Training Centre (IFSTC), Ministry of Health Malaysia, Bangi (11–12 August 2026)** | **Poster Presenter: Norhasnida Zawawi (Fifth Place, Poster Competition)**
   Muhammad Nur Shazwan Jamzuri, Nor Khaizura Mahmud Ab Rashid, Mohd Nasir Mohd Desa, Muhammad Amirun Che Hassan, Shahrul Razid Sarbini, **Norhasnida Z**awawi. *Pemanis Semula Jadi Malaysia yang Kaya dengan Mikrobiom: Ekologi Mikrob, Metabolit Fungsian, Keselamatan Makanan dan Integriti Halal (Microbiome-Rich Malaysian Natural Sweeteners: Microbial Ecology, Functional Metabolites, Food Safety and Halal Integrity).*
4. **Putra Training Week (PTW) 2026, Registrar Office, Universiti Putra Malaysia (online)** | **Invited Speaker**
   Norhasnida Zawawi. *Jom Kaji Kandungan Makanan 'Viral & Trending' (Examining the Content of Viral and Trending Foods).*
5. **4th Australian Native Bee Conference 2026, Cairns, Queensland, Australia** | **Oral Speaker: Norhasnida Zawawi**
   Norhasnida Zawawi. *Species-Driven Variations in Sugar Composition and Physicochemical Properties of Stingless Bee Honey from Shared Foraging Landscapes in Malaysia and Australia.*
6. **International Congress on Obesity (ICO) 2026, World Obesity Federation (abstract published in Obesity Reviews 27(S1))** | **Poster Presentation [P360]**
   Norhasnida Zawawi, Nur Syamimi Zaini, Nurliyana Najwa Md Razip, Nurul Ainaa Farhanah Mat Ramlan, Huzwah Khaza'ai, Norsharina Ismail, Nurul Shazini Ramli, Jack Ng, Mohd Naeem Mohd Nawi, Arif Zaidi Jusoh, Zurina Zainal Abidin. *Trehalulose-driven modulation of glucose metabolism and insulin sensitivity shows treatment-comparable effects in obesity-related dysglycemia from stingless bee honey and its isolated bioactive Trehaluxe.*
7. **Seminar Kebaikan dan Kelebihan Madu Kelulut, Universiti Pendidikan Sultan Idris (UPSI) with the Royal Malaysian Air Force Academy (ATU)** | **Invited Speaker**
   Norhasnida Zawawi.
8. **Healthy Teachers, Healthy School Programme, Sri Ayesha Islamic School (online)** | **Invited Speaker**
   Norhasnida Zawawi. *Healthy Teachers, Healthy School: Building Wellness Through Nutrition and Physical Activity.*

2025

9. **Pesta Tumbina 2025 – Sustainable Halal Community Development Programme (Program Pembangunan Komuniti Halal Lestari), Bintulu Development Authority (BDA) with Universiti Putra Malaysia, Bintulu, Sarawak (7 August 2025)** | **Invited Speaker (community programme)**
   Norhasnida Zawawi. *Sembang Lestari (Sustainability Talk, main stage).*

10. **XVI International Economic Forum "Russia – Islamic World: KazanForum 2025", Kazan, Republic of Tatarstan, Russia (14 May 2025) – Session "Health of the Nation: Organics and Halal as Key Components" (co-organised by Kazan State Agrarian University and the Academy of Sciences of the Republic of Tatarstan)** | **Invited Speaker (online)**
Norhasnida Zawawi. *Environmental Sustainability in the Halal Industry: The Development of Halal Products Using Environmentally Friendly Ingredients.*

11. **Beekeepers Network Philippines Foundation (Beenet) 30th Founding Anniversary Conference and Technofora: "Bees: Imperative for Pollination, Food Security & Biodiversity", CTU Hotel, Cebu City, Philippines (21–23 August 2025)** | **Invited Speaker**
Norhasnida Zawawi. *Trehalulose: A Unique Sugar in Stingless Bee Honey.*

12. **15th International Congress of Diabetes and Metabolism (ICDM) 2025** | **Poster Presenter: Norhasnida Zawawi**
Norhasnida Zawawi, Nur Syamimi Zaini, Nurliyana Najwa Md Razip, Jack Ng. *Trehalulose-rich stingless bee honey improves glucose tolerance and insulin sensitivity in type 2 diabetic-induced rats in vivo.*

13. **3rd International Stingless Bee Conference & Workshop (ISBCW) 2025** | **Invited Speaker**
Norhasnida Zawawi. *Trehalulose in the Determination of Stingless Bee Honey Quality – Highly Important or Just Hype?.*

14. **The 7th International Conference on Agricultural and Food Engineering (CAFEi) 2025** | **Oral Presenter: Farah Adilah Md Jafrry**
Farah Adilah Md Jafrry, Nurul Ainaa Farhanah Mat Ramlan, Nur Syamimi Zaini, Puteri Edaroyati Megat Wahab, **Norhasnida Z**awawi. *Sugar Profile and Antioxidant Properties of Cocus nucifera Floral Nectar Solutions as Feed Source for Production of High-Quality Stingless Bee Honey.*

15. **Malaysia International Halal Research and Education Conference (MIHREC) 2025** | **Poster Presenter: Nor Azrini Nadiha Azmi**
Nor Azrini Nadiha Azmi, Farah Izana Abdullah, Muhammad Nur Shazwan Jamzuri, Nadiah Mad Nasir, Yus Aniza Yusof, Norazlinaliza Salim, Uswatun Hasanah Zaidan, **Norhasnida Z**awawi. *From Bugs to Beauty: Exploring Insect Lipids in Nanoemulsion-Based Halal Cosmoceuticals.*

16. **Malaysia International Halal Research and Education Conference (MIHREC) 2025** | **Poster Presenter: Gita Addelia Nevara**
Gita Addelia Nevara, Amira Hasnanuha Ulayya, Hanisah Kamilah, Awis Qurni Sazili, **Norhasnida Z**awawi. *Halal-Compliant Bigels in Meat Systems: Advances in Fat Replacement, Nutritional Delivery, and Functional Innovation – A Review.*

17. **53rd International Union of Pure & Applied Chemistry General Assembly (IUPAC 2025) and 50th World Chemistry Congress (50WCC) 2025** | **Oral Speaker: Norhasnida Zawawi**
Farah Adilah Md Jafrry, Rabiatul Adawiah Mohd Noor, Siti Munirah Mohd Faudzi, Syahida Ahmad, **Norhasnida Z**awawi. *Elucidating the Impact of Feed Sources and Adulteration on Stingless Bee Honey Quality and Toxicity.*

18. **53rd International Union of Pure & Applied Chemistry General Assembly (IUPAC 2025) and 50th World Chemistry Congress (50WCC) 2025** | **Oral Speaker: Norhasnida Zawawi**
Ilya Dayini Azeman, Farah Adilah Md Jafrry, Rabiatul Adawiah Mohd Noor, Arif Zaidi Jusoh, Mohd Azerulazree Jamilan, **Norhasnida Z**awawi. *Unique Physicochemical and Antioxidant Properties Differentiate Stingless Bee Honey Produced in Acacia Forest from Peninsular and Borneo Malaysia.*

19. **Malaysian Society for Microbiology Postgraduate Symposium 2025 (MSMPS2025)**
Yogaletchumy Seevanathan, **Norhasnida Z**awawi, Siti Norbaya Oslan, Nur Suhanawati Ashaari, Amir Syahir Amir Hamzah, Suriana Sabri. *Identification of Trehalulose-Producing Microbes Associated with Stingless Bees.*

2024

20. **6th International Conference on Universal Wellbeing (ICUW 2024): "Interdisciplinary for Building Sustainable Peaceful Societies in the Contemporary World", Fatoni University, Pattani, Thailand (31 August 2024)** | **Invited Guest Speaker (Eminent Speaker Programme)**
Norhasnida Zawawi. *Strategic Networking for Collaboration among Asian Muslim Academicians and Researchers in Higher Educational Institutes.*

21. **Stingless Bee Smart Farming Project Forum, Dar al-Hikmah Library and Kulliyyah of Engineering, International Islamic University Malaysia (IIUM), Gombak (12 January 2024)** | **Forum Panellist**
Norhasnida Zawawi (Panellist). *Stingless Bee Honey Industry in Malaysia: Challenges and Directions.*

22. **International Halal Product Development Conference (IHPDC) 2024: "Innovation for a Sustainable Halal Future", Halal Products Research Institute, UPM (27 November 2024)** | **Oral Presenter: Arif Zaidi Jusoh**
Arif Zaidi Jusoh, **Norhasnida Z**awawi and Zurina Zainal Abidin. *Diversity in Malaysian and Australian Honey Composition: A Study of Stingless Bee Species within the Same Foraging Area.*

23. **International Halal Product Development Conference (IHPDC) 2024: "Innovation for a Sustainable Halal Future", Halal Products Research Institute, UPM (27 November 2024)** | **Oral Presenter: Rabiatul Adawiah Mohd Noor**
Rabiatul Adawiah Mohd Noor, Nurul Ainaa Farhanah Mat Ramlan, Farah Adilah Md Jaffry, Yus Aniza Yusof, Suriana Sabri, **Norhasnida Z**awawi. *Evaluating the Impact of Direct and Indirect Sugar Adulteration on Stingless Bee Honey Physicochemical Properties.*

24. **International Halal Product Development Conference (IHPDC) 2024: "Innovation for a Sustainable Halal Future", Halal Products Research Institute, UPM (27 November 2024)** | **Oral Presenter: Farah Adilah Md Jafrry**
Farah Adilah Md Jaffry, Chole Chanel Suat Yinn Tan, Nur Maisarah Sagi, **Norhasnida Z**awawi. *High-Pressure Processing Application on Kelulut Honey-Ginger Based Functional Beverage Induced Nutritional Quality and Extended Shelf-life.*

25. **International Food Research Conference (IFRC) 2024** | **Oral Speaker: Norhasnida Zawawi**
Zaini, N.S., Md Razip, N.N., Mat Ramlan, N.A.F., Khaza'ai, H., Ismail, N., Ramli, N.S., Ng, J., **Zawawi, N.** *Trehalulose-rich stingless bee (Geniotrigona thoracica) honey modulate cytotoxicity and glucose uptake in HepG2, 3T3-L1 and SKMC cell in vitro.*

26. **Congress on Sustainable Agriculture and Food Security (COSAFS) 2024** | **Oral Speaker: Norhasnida Zawawi**
Zawawi, N., Hungerford, N.L., Webber, D., de Jesus, M.C., Zhang, J., Stone, I.S.J., Blanchfield, J.T., Yates, H.S.A., Farrell, M., Tinggi, U., Bhandari, B., Mat Ramlan, N.A.F., Mohamad Azman, E., Kharidah, M., Jusoh, A.Z., Yusof, Y.A., Johari, N.A., Fletcher, M.T. *Predominant Presence of Trehalulose, a Rare Sugar Naturally Sourced from Stingless Bee Honey Across Regions, Mandate a New Local and International Standard.*

2023

27. **5th International Conference on the Medicinal Use of Honey (5th V-iCMUH), theme "Emergence of Kelulut Honey", Health Campus, Universiti Sains Malaysia, Kubang Kerian (18–20 May 2023)** | **Plenary Speaker (Plenary 4: Novel Honey Properties, 20 May 2023)**
Norhasnida Zawawi. *Trehalulose as Biomarker for Stingless Bee Honey.*

28. **MIFT 13th National Food Science and Technology Competition 2023, Monash University Malaysia (5–6 August 2023)** | **Poster Presenter: Nurul Ainaa Farhanah Mat Ramlan (First Place, Postgraduate Research Paper – Food Science)**
Nurul Ainaa Farhanah Mat Ramlan, Ezzat Mohamad Azman, Kharidah Muhammad, **Norhasnida Z**awawi. *Three-year Comparison of Sugar Composition, Including Trehalulose Content in Geniotrigona thoracica and Heterotrigona itama Honey.*

29. **2nd International Congress on Bee Sciences (ICBEES), online (14–16 June 2023)** | **Invited Oral Speaker (16 June 2023)**
Norhasnida Zawawi. *Trehalulose as Biomarker for Stingless Bee Honey.*

30. **Stingless Bee Industry Challenges – International Seminar 2023, Halal Products Research Institute, UPM, with Sugarbag Bees (Australia) and The University of Queensland (20 March 2023)** | **Invited Speaker and Programme Director**
Norhasnida Zawawi. *Nutritional Profile of Stingless Bee Honey from Around the World.*

31. **International Entrepreneurship Seminar on Bee and Stingless Bee 2023, organised by Gudang Madu Fonda (Indonesia) and My Iqra Solutions (Malaysia), Rumah Dinas Kabupaten Kampar, Riau, Indonesia, theme "Mencetak Generasi Muda Entrepreneur Kabupaten Kampar" (14 March 2023)** | **Invited Speaker**
Norhasnida Zawawi. *Unique Nutrient and Bioactive Compounds of Stingless Bee Honey from Around the World.*

32. **5th International Conference on the Medicinal Use of Honey (5th V-iCMUH), Health Campus, Universiti Sains Malaysia, Kubang Kerian (18–20 May 2023)** | **Oral Presenter: Nurul Ainaa Farhanah Mat Ramlan**
Nurul Ainaa Farhanah Mat Ramlan, Bella Halida Putri Mohd Toha, Arif Zaidi Jusoh, Ezzat Mohamad Azman, Sharifah Kharidah Syed Muhammad, **Norhasnida Z**awawi. *Quality of Three-Year-Old Stored Raw Stingless Bee Honey.*

33. **5th International Conference on the Medicinal Use of Honey (5th V-iCMUH), Health Campus, Universiti Sains Malaysia, Kubang Kerian (18–20 May 2023)** | **Oral Presenter: Nur Rabiatul Adawiah Mohammad Noor**
Nur Rabiatul Adawiah Mohammad Noor, Yus Aniza Yusof, Suriana Sabri, Amalia Mohd Hashim, Natasha L. Hungerford, Mary T. Fletcher, **Norhasnida Z**awawi. *Honey Authentication Project: Physicochemical Comparisons Enable the Detection of Indirect Adulteration in Honey of Stingless Bees Fed Sucrose.*

34. **5th International Conference on the Medicinal Use of Honey (5th V-iCMUH), Health Campus, Universiti Sains Malaysia, Kubang Kerian (18–20 May 2023)** | **Presenter: Nur Syamimi Zaini**
Nur Syamimi Zaini, **Norhasnida Z**awawi. *Trehalulose Isolated from Stingless Bee Honey Potentially Stabilizes the Glycemic Response of Normal Rats as Compared to Commercial Sucrose and Trehalose.*

35. **Nutrition Society of Malaysia 38th Scientific Conference 2023** | **Co-author**
Cheng, M.Z.S.Z., **Norhasnida, Z.**, Ooi, D.J., Chan, K.W., Norsharina, I., Nur Akmal, I., Norhaizan, M.E. *Safety Assessment of a Novel Plant-Based Milk Alternative from Kenaf (Hibiscus cannabinus L.) Seeds Through Subacute Oral Toxicity Study.*

36. **Asian Apicultural Association (AAA) General Assembly-cum-Workshop on Sustainable Beekeeping and Conservation in Asia, co-organised with the Apimondia Regional Commission for Asia, Native Honeybee and Pollinator Research Center (Beepark), King Mongkut's University of Technology Thonburi, Ratchaburi, Thailand (29–30 April 2023)** | **Expert Panellist**
Norhasnida Zawawi. *Expert panel on the physicochemical and nutritional properties of stingless bee honey.*

2022

37. **Connecting Agri Needs (CAN) Agropreneur Development Programme, Faculty of Agriculture with the University Community Transformation Centre (UCTC), UPM (26 January 2022)** | **Invited Speaker**
Norhasnida Zawawi. *Madu Lebah Kelulut dan Khasiatnya (Stingless Bee Honey and Its Health Benefits).*

38. **3rd Australian Native Bee Conference 2022, Australia** | **Co-author**
Natasha L. Hungerford, Jiali Zhang, Tobias J. Smith, Hans S.A. Yates, Mary Carpinelli de Jesus, et al., **Norhasnida Z**awawi. *Stingless Bee Honeys Feature an Unusual Bioactive Sugar, Trehalulose.*

39. **1st International Congress on Bee Sciences** | **Invited Speaker**
Norhasnida Zawawi. *Unique Kelulut Factor? A Review of Potential Nutritional Parameters for Grading Stingless Bee Honey.*

40. **World Bee Day Celebration 2022** | **Forum Panel**
Norhasnida Zawawi (Panellist). *Bee Sustainability: Source of Biodiversity and Economic Catalyst.*

41. **TropAg International Agriculture Conference 2022**
Mat Ramlan, N.A.F, Zaini, N.S, Hungerford, N., Fletcher, M. and **Zawawi, N.** *Determination of phenolic compounds and organic acids of stingless bee honey from Malaysia and Australia.*

42. **International Conference on Food Science and Nutrition (ICFSN 2022)** | **Presenter: Nur Syamimi Zaini**
Nur Syamimi Zaini, Roselina Karim, Ahmad Faizal Abdull Razis, **Norhasnida Z**awawi. *Nutritional and Antinutritional Evaluation of Raw and Processed Kenaf (Hibiscus cannabinus L.) Seeds.*

43. **World Forum for Women in Science, Malaysia 2022** | **Presenter: Nur Syamimi Zaini**
Nur Syamimi Zaini, Roselina Karim, Ahmad Faizal Abdull Razis, **Norhasnida Z**awawi. *Comparative Analysis of Ultra-High Performance Liquid Chromatography and Antioxidant Properties Between Kenaf (Hibiscus cannabinus L.) Seed and Soybean (Glycine max) Milk Substitutes.*

44. **World Forum for Women in Science, Malaysia 2022** | **Presenter: Nurul Ainaa Farhanah Mat Ramlan**
Nurul Ainaa Farhanah Mat Ramlan, Farah Adilah Md Jafrry, Nur Sharafuna Irdina Mohd Arshad, Norliyana Mohd Rosdi, **Norhasnida Z**awawi. *Quantification of the Rare Sugar Trehalulose and Antioxidant Activities of Stingless Bee Honey Produced in Three Consecutive Years.*

2021

45. **1st Southeast Asia Meliponine Symposium 2021 (SEAMS 2021)** | **Invited Speaker: Norhasnida Zawawi**
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. *Trehalulose Sugar in Stingless Bee Honey: A New Discovery.*

46. **International Congress of the Malaysian Society for Microbiology (ICMSM2021)** | **Presenter: Suriana Sabri**
Sabri, S., **Zawawi, N.**, Ngalimat, M.S., Yahaya, R.S.R., Baharudin, M.M.A., Zulkhairi-Amin, F.A. *Bioprospecting for Industrially Important Bacteria in Stingless Bee Nest Products.*

47. **The 2nd International Electronic Conference on Foods (Foods 2021)** | **Oral Presenter: Norhasnida Zawawi**
Mohamat, R.N., Yusof, Y.A., **Zawawi, N.** *Correlation of Trehalulose Content with Physicochemical Parameters in Adulterated Kelulut Honey.*

48. **Nutrition Society of Malaysia 36th Scientific Conference 2021** | **Poster Presenter: Nur Syamimi Zaini**
Zaini, NS, Karim, R, Abdull Razis, AF, **Zawawi, N.** *Safety Assessment of a Novel Plant-based Milk Alternative from Kenaf (Hibiscus cannabinus L.) Seeds Through Subacute Oral Toxicity Study.*

49. **Symposium of Research & Innovation for Food (SoRIF) 2021** | **Co-author**
Hungerford, N.L., Zhang, J., Smith, T.J., Carpinelli de Jesus, M., Yates, H.S.A., Chowdhury, S.A., Carter, J.F., Webber, D., Stone, I.S.J., Blanchfield, J.T., **Zawawi, N.**, Schirra, H.J., Tran, T.D., Fletcher, M.T. *Stingless Bees Produce Honey Rich in the Beneficial Disaccharide, Trehalulose.*

2020

50. **Nutrition Society of Australia Annual Scientific Meeting 2020** | **Co-author**
Natasha L. Hungerford, Mary T. Fletcher, Dennis Webber, Mary Carpinelli de Jesus, Jiali Zhang, et al., **Norhasnida Z**awawi. *Stingless Bee Honey's Unique Properties.*

51. **National Food Technology Seminar 2020** | **Presenter: Arif Zaidi Jusoh**
Jusoh, A.F., **Zawawi, N.**, Mat Ramlan, N.A.F. and Sapie, N.F. *Trehalulose : A Potential Quality Indicator for Kelulut Honey.*

52. **5th Queensland Annual Chemistry Symposium (QACS 2020)** | **Poster Presenter: Natasha L. Hungerford**
Hungerford, N.L., Zhang, J., Carpinelli de Jesus, M., Yates, H., Webber, D., Stone, I.S.J., Blanchfield, J., **Zawawi, N.**, Fletcher, M.T. *Stingless Bee Honey as a Unique Source of Trehalulose.*

53. **Nutrition Society of Malaysia 35th Scientific Conference 2020** | **Poster Presenter: Nur Syamimi Zaini**
Zaini, NS, Karim, R, Abdull Razis, AF, **Zawawi, N.** *Safety Assessment of A Novel Plant-based Milk Alternative from Kenaf (Hibiscus cannabinus L.) Seeds Through Acute Oral Toxicity Study.*

54. **Nutrition Society of Malaysia 35th Scientific Conference 2020** | **Poster Presenter: Nurul Ainaa Farhanah Mat Ramlan**
Ramlan, NAFM, Zaini, NS, Mohammad, SM, Ramli, NS, **Zawawi, N.** *Physicochemical, Sensory and Antioxidant Properties of Persimmon (Diospyros kaki L.) Leaves Cookies.*

2019

55. **International Tropical Agriculture Conference 2019 Multidisciplinary Digital Publishing Institute Proceedings 36(1), 101** | **Poster Presenter: Natasha L. Hungerford**
Hungerford, N.L., 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. *Analysis of Environmental Contaminants in Australian Honey and Comparison to Stingless Bee Honey from Queensland and Malaysia.*

56. **International Conference of Food Analysis 2019** | **Poster Presenter: Natasha L. Hungerford**
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. *Pyrrolizidine Alkaloids in Honey.*

57. **International Food Research Conference 2019** | **Poster Presenter: Salma Mohamad**
Mohammad, SM, **Zawawi, N.**, Mahmud-Ab- Rashid, N. *Stress Tolerance, Adhesion Ability and Safety Assessment of Probiotic Bacteria Isolated from Bee Bread of Stingless Bee (Heterotrigona itama).*

58. **Malaysian International Genetics Congress (MIGC13)** | **Oral Speaker: Norhasnida Zawawi**
Zulaikha Tajuddin, Norsharina Ismail, Chan Kim Wei, Maznah Ismail, **Norhasnida Z**awawi. *Anti-Obesity Effect of Strobilanthes Crispus Leaves Extract by Inhibition of Human Visceral Preadipocyte Cells and Increased Gene Expression of Proinflammatory Adipocytokines.*

59. **2nd International Stingless Bees Conference & Workshop 2019, Kota Kinabalu, Sabah** | **Oral Speaker: Norhasnida Zawawi**
Norhasnida Zawawi. *Physicochemical Profiles and Minerals of Stingless Bee Honey from Malaysia and Australia: A Comparative Characterization.*

2018

60. **International Conference on Probiotics and Food Sustainability 2018** | **Oral Speaker: Fatin Aina Zulkhairi Amin**
Fatin Aina Zulkhairi Amin, **Norhasnida Z**awawi, Suriana Sabri, Maznah Ismail, Norhaizan Mohd Esa, Kim Wei Chan, and Norsharina Ismail. *Molecular Identification of Potential Probiotic Bacillus Spp. Strain Isolated from Stingless Bee Honey (Heterotrigona itama).*

61. **Bromo conference: Symposium on Natural Products & Biodiversity 2018** | **Oral Speaker: Fatin Aina Zulkhairi Amin**
Fatin Aina Zulkhairi, **Norhasnida Z**awawi, Suriana Sabri, Maznah Ismail, and Norhaizan Mohd Esa. *Isolation and identification of Bacillus spp. isolates from stingless bee honey (Heterotrigona itama).*

62. **International Conference on Probiotics & Food Sustainability 2018** | **Oral Speaker: Salma Malihah Mohammad**
Salma Malihah, M., **Norhasnida, Z.**, Nor- Khaizura, M-A-R. *Molecular Identification of Lactic Acid Bacteria and Bacillus spp. Isolated from Bee Bread of Stingless Bee (Heterotrigona itama).*

63. **2nd International Conference on Food Analysis (ICFA) 2018** | **Co-author**
Melksham, K.M., Hungerford, N.L., Martin, C.L., Fletcher, M.T., Carter, S.J., Anuj, S.R., Tianqi, Z., **Zawawi, N.**, Sharma, E., Yin, M., Nguyen, T.T.P., Were, S.T., Tan, B. *Pyrrolizidine Alkaloids in Honey.*

2017

64. **International Food Research Conference 2017** | **Presenter: Abu Bakar Bilyaminu**
Bilyaminu, A., Md Zuki, A.B., Maznah, I., **Norhasnida Z.** *Intergenerational regulation of PPARgamma and GLUT4 by amylose content and/or germination status of rice cultivars.*

65. **1st Southeast Asia Public Health Nutrition Conference** | **Poster Presenter: Norhasnida Zawawi**
Norhasnida Zawawi, Zulaikha Tajuddin, Russly Abdul Rahman, Maznah Ismail. *Pecah Kaca (Strobilanthes crispus) leaves inhibit lipid metabolism and modulate leptin secretion in human adipocytes in vitro.*

2016

66. **The 29th International Symposium on the Chemistry of Natural Products** | **Poster Presenter: Norhasnida Zawawi**
Norhasnida, Z., Nursyafika, H., Maznah, I., Hiroyuki, Y. *Subcritical water extraction of Strobilanthes crispus leaves increased antioxidant activity.*

67. **International Conference on Natural Products 2016** | **Presenter: Lee Soo Yee**
Lee, S.Y., Faridah, A., Alfi, K., Intan, S.I., Khozirah, S., **Norhasnida Z.** *Metabolite profiling of Neptunia oleracea and correlation with antioxidant and alpha-glucosidase inhibitory activities using H-NMR based metabolomics.*

68. **International Conference on Natural Products 2016** | **Presenter: Zulaikha Tajuddin**
Zulaikha, T., **Norhasnida Z.** *Antioxidant, total phenolic content and high- performance liquid chromatography (HPLC) profiling of Strobilanthes crispus leaves using supercritical fluid extraction method.*

2015

69. **ISHAMS 2015 (paper published in Jurnal Teknologi)** | **Presenter: Norhasnida Zawawi**
Norhasnida Zawawi, Nursyafika Hamidan, Maznah Ismail, Hiroyuki Yoshida. *Subcritical Water Extraction of Strobilanthes crispus Leaves Increased Antioxidant Activity in Extract.*

70. **International Conference on Natural Products 2015** | **Presenter: Norhasnida Zawawi**
N. Zawawi, Abd Manan N.A., Othman N.H., Jamaludin Z., Ismail M. *Anticancer and Antioxidant Activities of Strobilanthes crispus Leaves Extracts. International Conference on Natural Product.*

71. **8th Asian Network of Research on Antidiabetic Plants (ANRAP) International Seminar 2015** | **Presenter: Norhasnida Zawawi**
Norhasnida Zawawi, Zulaikha Tajuddin. *Polyphenol Contents and Antioxidant Activity of Strobilanthes crispus Leaves.*

2014

72. **International Conference on Advances in Plant Biochemistry and Biotechnology 2014** | **Oral Speaker: Norhasnida Zawawi**
Zawawi N., Mior S.H.F, Abdullah N.A., Muhamad N.Z., Ismail M. *Higher Total Phenolic Content and Antioxidant Activities of Strobilanthes crispus Leaves Extracted using Chemical Reagents and Water Compared to Subcritical Carbon Dioxide Extraction.*

73. **5th International Symposium on Wellness, Healthy Lifestyle and Nutrition** | **Oral Speaker: Norhasnida Zawawi**
N. Zawawi, MG. Samsudin, Ismail, M. *Functional Properties of Kenaf Seeds (Hibiscus cannabinus L.) Dietary Fibre.*

74. **29th Nutrition Society of Malaysia Conference** | **Presenter: Norhasnida Zawawi**
Zawawi, N., Salter, A., Brameld, J. *Comparative Regulation of Lipolysis by Epigallocatechin Gallate (EGCG) and Resveratrol in Human and Rat Adipose Tissue Explants.*

2013

75. 2nd International Conference on Kenaf and Allied Fibres | Oral Speaker: Norhasnida Zawawi
N. Zawawi, Gangadharan P., Ahma Zaini R., Samsudin M.G., Karim R., Ismail M. *Defatted Kenaf Seeds Yellow (DKSY) Noodles Possess Higher Nutritional Values and Better Cooking Quality than Wheat Based Yellow Noodles.*

76. International Functional Food Conference | Poster Presenter: Norhasnida Zawawi
M.G. Samsudin, R. Karim, M. Ismail, **N. Zawawi**. *Nutritional Composition of Hibiscus Cannabinus L. Seeds.*

77. 28th Nutrition Society of Malaysia Conference | Poster Presenter: Norhasnida Zawawi
N. Zawawi, Soid PF, Samsudin MG, Karim R and Ismail M. *50% rice bran flour increased total phenolic content and fiber in yellow alkaline noodles.*

2012

78. 2nd International Conference on The Science of Nutrition in Medicine and Healthcare | Poster Presenter: Norhasnida Zawawi
N. Zawawi, Tan G., Salter A., Brameld J. *EGCG and Resveratrol Regulate Lipolysis in the Rat and Human Adipose Tissue Ex Vivo.*

2011

79. International Conference on Natural Products | Poster Presenter: Norhasnida Zawawi
N. Zawawi, Warner A., Ebling F., Salter A., Brameld J. *Strobilanthes crispus extract increased heat production and reduces respiratory exchange ratio (RER) in obese mice fed high fat and low-fat diets without altering food intake.*

J MEDIA PUBLICATIONS AND INTERVIEWS

Date	Outlet / Platform	Title and Link
August 2026	The Cross-Pollinator, Newsletter of the Australian Native Bee Association (Issue 81, Conference Special)	Feature of conference talk 2.1.4 – Species-Driven Variations in Sugar Composition and Physicochemical Properties of Stingless Bee Honey (4th Australian Native Bee Conference 2026)
February 2026	Facebook Live / radio interview, IKIM.fm (Institute of Islamic Understanding Malaysia)	Halal Profesional – Madu Kelulut: Emas Cair, Ramuan Halal, Khazanah Alam (Stingless Bee Honey: Liquid Gold, Halal Ingredient, Nature's Treasure)
26 November 2025	Radio interview / Facebook Live, IKIM.fm (Institute of Islamic Understanding Malaysia)	Halal Greenovate: Inovasi Hijau, Masa Depan Industri Halal (Halal Greenovate: Green Innovation, the Future of the Halal Industry)
26th March 2025	Facebook Live Interview by the Institute of Islamic Understanding Malaysia at IKIM.fm	Halal Profesional - Penyediaan Makanan Halal untuk Kelestarian Alam Sekitar (Halal Professionals - Halal Food Preparations for Environmental Sustainability) https://www.facebook.com/share/v/1G6AaVX1YE/
1st April 2024	Television – Majalah 3, TV3	Hitam Manis Penjaga Tualang (Majalah 3, 2024), interview as Head of the Laboratory of Halal Services, UPM https://www.youtube.com/watch?v=KTWtPrRLGa8
2024 – 2025	ANBA Annual, Volume 6 (2024–25), Australian Native Bee Association (compilation of The Cross-Pollinator)	Native Bee Honey approved by Food Standards Australia/NZ #1 – Report from the honey committee (pp. 21–22); features Dr Norhasnida Zawawi as a honey committee member and QAAFI research collaborator in the journey to Food Standard 2.8.3
20th May 2022	Malaysia Gazette	Lestarikan Penternakan Madu Lebah (Sustaining Bee Honey Farming) https://malaysiagazette.com/2022/05/20/lestarikan-pentern…
May 2021	The Cross-Pollinator, Newsletter of the Australian Native Bee Association (Issue 21, Research Highlights)	What is Trehalulose and why is it important? Feature on the trehalulose discovery, naming Dr Norhasnida Zawawi as a key member of the research team and of the ANBA honey subcommittee
15th March 2021	TV IKRAM 1	Episode 25 – Kajian Pensyarah UPM bersama Pakar di Australia: Apa beza madu kelulut dengan madu biasa? https://www.youtube.com/watch?v=Bin_BM6oPzg
4th September 2020	FB Live Interview by Bayu Kelulut Superfood M'sia	Trehalulosa dalam madu kelulut – Apa itu Trehalulosa sebenarnya? (Trehalulose in stingless bee honey – What exactly is trehalulose?) https://www.facebook.com/nidaresearch/posts/109235807579987
12th August 2020	Online news – Eco-business	Stingless bee honey discovery could create conservation-friendly business opportunities in Asia Pacific https://www.eco-business.com/news/stingless-bee-honey-dis…

Date	Outlet / Platform	Title and Link
6th August 2020	Online news – Utusan Malaysia	Madu kelulut mampu cegah kencing manis https://www.utusan.com.my/nasional/2020/08/madu-kelulut-m…
4th August 2020	Online news - Berita UPM	Penyelidik UPM temui gula trehalulosa dalam madu kelulut, baik untuk kesihatan. Researchers discover trehalulose sugar in kelulut honey with health benefits. https://upm.edu.my/berita/penyelidik_upm_temui_gula_treha… https://upm.edu.my/berita/penyelidik_upm_temui_gula_treha…
4th August 2020	Online news - Kosmo!	Penyelidik UPM temui gula trehalulosa dalam madu kelulut https://www.kosmo.com.my/2020/08/04/penyelidik-upm-temui-…
6th August 2020	Online news – Suara Merdeka	UPM temui trehalulosa, unsur superfood dalam madu kelulut https://suaramerdeka.com.my/upm-temui-trehalulosa-unsur-s…
4th August 2020	Online news – Dagang News	Penyelidik UPM temui gula trehalulosa dalam madu kelulut https://www.dagangnews.com/penyelidik-upm-temui-gula-treh…
4th August 2020	Online news – Kolum Sihat	Gula Trehalulosa dalam Madu Kelulut Baik untuk Kesihatan – Penyelidik UPM https://kolumsihat.com/gula-trehalulosa-dalam-madu-kelulu…
28th July 2020	Online news: New Zealand Herald	Science sweetens native honey health claims https://www.nzherald.co.nz/the-country/news/science-sweet…
27th July 2020	Online news – In Queensland	New superfood find creates buzz in native honey market https://inqld.com.au/statewide/2020/07/27/new-superfood-f…
23rd July 2020	Online news – The University of Queensland	Science sweetens native honey health claims https://www.uq.edu.au/news/article/2020/07/science-sweete…
23rd July 2020	Online news – Australian Online News	Science identifies rare, healthy sugar in native stingless bee honey https://australianonlinenews.com.au/2020/07/23/science-id…
23rd July 2020	Online news – Brisbane Times	Scientists say native stingless bee honey hits the sweet spot https://www.brisbanetimes.com.au/national/queensland/scie…
23rd July 2020	Online news – Melbourne Online News	Science identifies rare, healthy sugar in native stingless bee honey https://melbourneonlinenews.net.au/science-identifies-rar…
22nd July 2020	Online news – ScienceDaily	Science sweetens stingless bee species honey health claims https://www.sciencedaily.com/releases/2020/07/20072211273…
16th June 2020	Online news – Harian Metro	Pengambilan kopi bersama durian boleh sebabkan kembung perut (Consuming coffee with durian can cause bloating), expert comment by Dr Norhasnida Zawawi
May Issue, 2019	Entomological Society Queensland (ESQ) Bulletin.	Stingless Bee Honey Unique Properties
24th Sept 2019	Online seminar -QAAFI Science Seminar	Stingless Bee Honey – Towards Standardisation https://www.youtube.com/watch?v=vmUL2ai5wzQ
13th August 2019	Facebook Live Interview by the Institute of Islamic Understanding Malaysia at IKIM.fm	Bicara Halal – Nutrisi dalam Islam (Halal Talk – Nutrition in Islam) https://fb.watch/2dEI7SKTg4/
Bil. 2, 2017	Dewan Masyarakat	Bahan Semulajadi Tidak Semestinya Selamat (Natural Substances are Not Necessarily Safe)
Julai 2016	Dewan Masyarakat	Puasa Menyihatkan Tubuh Badan (Fasting for Body Health)

K RESEARCH PROJECTS AWARDED

No.	Project Title	Role	Period	Source of Funding	Amount	Status
1	The Development of Stingless Bee-Based Health Beverage Based on Scientific Research	Lead Researcher	2024	Sundrop Fruit Juice Sdn Bhd	**RM 49,350.00**	Completed

No.	Project Title	Role	Period	Source of Funding	Amount	Status
2	Isolation and Purification of the Rare Sugar Trehalulose from Stingless Bee Honey by Ion Exchange Adsorption (IEA)	Co-Researcher	2024 – 2026	Geran Putra Inisiatif Putra Siswazah (GP-IPS), Universiti Putra Malaysia	**RM 20,000.00**	Ongoing
3	Increasing The Southeast Asia Region's Capacity of Stingless Bee Honey Quality and Nutrient Standardization for Authentication	Lead Researcher	2023 – 2026	Geran Putra Inisiatif (GPI), Universiti Putra Malaysia	**RM 28,000.00**	Ongoing
4	Quality-Fingerprinting of Trehalulose-Rich Kelulut Honey by Linking Physico-Chemical Properties, Sensory Profile and Modulation of Glucose Metabolism In Vivo	Lead Researcher	2022 – 2026	Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia	**RM 148,240.00**	Ongoing
5	Assessing The Impact of Stingless Bee Honey Indirect Adulteration Based on Physicochemical Properties Using Machine Learning and Physiological Effects In Vivo	Lead Researcher	2022 – 2024	Geran Putra Berimpak (GPB), Universiti Putra Malaysia	**RM 60,000.00**	Completed
6	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 – 2024	International Collaboration Fund (ICF), Ministry of Science, Technology and Innovation Malaysia	**RM 481,100.00**	Completed
7	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	**RM 160,000.00**	Completed
8	Nutritional Value and Probiotic Properties of Malaysian Stingless Bee-Collected Pollens (Bee Bread)	Lead Researcher	2017 – 2020	Geran Putra, Universiti Putra Malaysia	**RM 50,000.00**	Completed
9	Development of protein derived food products from Kenaf seed milk	Co-Researcher	2017 – 2021	Malaysian Board of Kenaf and Tobacco	**RM 260,000.00**	Completed
10	Nutraceutical properties and probiotic potential of stingless bee honey for establishment of quality markers against oxidative stress.	Co-Researcher	2016 – 2020	Transdisciplinary Research Grant Scheme (TRGS), Ministry of Higher Education Malaysia	**RM 189,000.00**	Completed
11	Modulation of the Human Adipocyte Life Cycle by Strobilanthes crispus Extracts	Lead Researcher	2013 – 2017	Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia	**RM 117,000.00**	Completed
12	Nutritional quality and physicochemical properties of defatted kenaf seed flour and its application in food systems	Lead Researcher	2013 – 2015	Research University Grant Scheme (RUGS), Universiti Putra Malaysia	**RM 30,000.00**	Completed
				TOTAL RESEARCH GRANTS AS LEAD RESEARCHER		**RM 963,690.00**
				TOTAL RESEARCH GRANTS AS CO-RESEARCHER		**RM 629,000.00**
				TOTAL RESEARCH GRANTS RECEIVED		**RM 1,592,690.00**

L STUDENT SUPERVISION

Postgraduate courses taught

- FST5703 Functional Food for Specific Groups – Master of Functional Food Design, Faculty of Food Science and Technology, UPM (Course Lecturer, team-taught; Semester 2 2023/2024, from 18 March 2024)

- FST5104 Micro Components of Food (Semester 1 2016/2017); FST5605 Food Safety and Quality Assurance Issues (Semester 2 2014/2015) – Faculty of Food Science and Technology, UPM
- FST5705 Global Nutrition and Policy – Faculty of Food Science and Technology, UPM (Course Lecturer; Semester 1 2024/2025)

Doctor of Philosophy (PhD) — 14 students (6 graduated, 8 ongoing)

No.	Name	Status	Period / Year	Thesis / Project Title	Role
1	Amira Hasnanuha Ulayya	Ongoing	From 2025	To be confirmed	Main Supervisor
2	Nurul Iffah Kamaruddin	Ongoing	From Sep 2024	To be confirmed (PhD in Molecular and Cell Biology, School of Health Sciences, Universiti Sains Malaysia; registered 25 September 2024)	Co-Supervisor
3	Muhammad Amirun Che Hassan	Ongoing	From 2024	Assessing The Protein Quality and Bioavailability of Malaysia's Underutilized Arthropod and Mollusc Species as Halal Protein Alternative	Co-Supervisor
4	Muhammad Nur Shazwan Jamzuri	Ongoing	From 2024	Assessing the Safety Profile of Malaysia's Underutilized Arthropod and Mollusc Species as Halal Protein Alternative	Main Supervisor
5	Amna Saeed	Ongoing	From 2023	Production on Alternative Milk from Sustainable Resources and Application as Functional Food	Main Supervisor
6	Nur Rabiatul Adawiah Mohammad Noor	Ongoing	From 2021	Classification And Prediction of Kelulut Bee Honey Indirect Adulteration on Physicochemical and Microbial Properties Using Machine Learning Models.	Main Supervisor
7	Yogaletchumy Seevanathan	Ongoing	From 2021	Screening, cloning and characterization of trehalulose synthase from stingless bee and bee-related microbes.	Co-Supervisor
8	Asmaa' Mohd Satar	Ongoing	From 2023	Elucidating the therapeutic potential of rare trehalulose sugar derived from stingless bee honey for ischemic stroke disease	Co-Supervisor
9	Kousalya Padmanabhan	Graduated	2021 – 2026	Functional Properties, Gut Simulation Activity and Antagonistic Effects of Probiotic-Fermented Tomato-Watermelon Juice Against Foodborne Pathogens	Co-Supervisor
10	Nevarra Gita Adella	Graduated	2019 – 2024	Fractionation And Characterization of Kenaf (Hibiscus Cannabinus L.) Seed Fibre and Its Application in Food Products.	Co-Supervisor
11	Lee Soo Yee	Graduated	2017	Metabolite characterization of Neptunia oleracea Lour. and its correlation with antioxidant and alpha-glucosidase inhibitory activities using NMR-based metabolomics approach.	Co-Supervisor
12	Sarega A/P Nadarajan	Graduated	2016	Anti-hypercholesterolemic Effects of Clinacanthus nutans on High- Fat/Cholesterol Induced Rats.	Co-Supervisor
13	Stellamaris Kembabazi	Graduated	2024	Production Of Type III Resistant Starch from Cooking Bananas by Extrusion Process: Prospects for Application in Bread Production	Co-Supervisor
14	Bilyaminu Abu Bakar	Graduated	2016	Intergenerational Effect of Amylose Content and Germination Status of Rice Cultivars in Normal and High-Fat Diet- Fed Rats.	Co-Supervisor

Master of Science (MSc) by Research — 7 students (6 graduated, 1 ongoing)

No.	Name	Status	Period / Year	Thesis / Project Title	Role
1	Arif Zaidi Jusoh	Ongoing	From 2022	Production of High-quality Trehalulose as Chemical Marker of Pure Stingless Bee Honey	Main Supervisor
2	Muhammad Hairul Ridzwan Samsol	Graduated	2023 – 2026	Recovery of Trehalulose Sugar from Stingless Bee Honey Using Cation Exchange Adsorption	Co-Supervisor

No.	Name	Status	Period / Year	Thesis / Project Title	Role
3	Farah Adilah Md Jafrry	Graduated	2022 – 2026	Effects of Feed Sources and Indirect Adulteration on the Physicochemical, Antioxidant, Toxicity and Anti-Hyperglycemic Activity of Stingless Bee Honey	Main Supervisor
4	Nurul Ainaa Farhanah Mat Ramlan	Graduated	2020 – 2024	Physicochemical and antioxidant properties of stingless bee honeys associated with its' trehalulose contents.	Main Supervisor
5	Nur Syamimi Zaini	Graduated	2019 – 2023	Evaluation of Nutritional Values and Safety of Plant-based Milk from Kenaf (Hibiscus cannabinus L.) Seeds.	Main Supervisor
6	Salma Mohamed	Graduated	2021	Botanical Origin, Nutritional Values and Probiotic Properties of Bee Bread of Stingless Bee (Heterotrigona itama).	Main Supervisor
7	Fatin Ainaa Zulkhairi Amin	Graduated	2022	In Vitro and In Vivo Evaluation of Potential Probiotic Bacillus Spp. Isolated from Stingless Bee (H. itama) Honey.	Main Supervisor

Master by Coursework (MoFS) – Project / Dissertation Supervision — 5 students (5 graduated)

No.	Name	Status	Period / Year	Thesis / Project Title	Role
1	Khavinisha A/P Silvakumar	Graduated	2025 – 2026	Consumer Knowledge, Awareness, Labelling Perception and Confidence Towards Stingless Bee Honey and Its Physicochemical Analysis.	Main Supervisor
2	Al-Qaysi Abdulrahman	Graduated	2025	Effect of Pasteurisation and Storage Conditions on Physicochemical Properties and Microbial Safety of Jackfruit Seed Milk.	Main Supervisor
3	Bella Halida Putri Mohd Toha	Graduated	Oct 2021 – Mar 2023	Quantification of 5-Hydroxymethylfurfural (HMF) and Total Acidity in Stingless Bee Honey from Peninsular Malaysia.	Main Supervisor
4	Rinee Najwa Mohamat	Graduated	2019 – 2021	Analysis of Kelulut Honey Sugar-Based Adulteration Using Physicochemical Parameters.	Main Supervisor
5	Helina A/P Ganaprakasam	Graduated	2016	Effect of Strobilanthes crispus Leaves Subcritical Water Extract on 3T3-L1 Preadipocytes Viability.	Main Supervisor

Bachelor of Science – Final-Year Research Projects — 54 students (54 graduated)

No.	Name	Status	Period / Year	Thesis / Project Title	Role
1	Noramira Shuhadah Norazmi	Graduated	2026	Effects of High-Pressure Processing (HPP) on Physicochemical and Microbiological Properties of SEE-NEY Beverage	Supervisor
2	Nur Adlina Dayini Amir Hamzah	Graduated	2026	Nutritional Quality and Safety Assessment of Processed Mole Crab	Supervisor
3	Shaurah Hannani Shaharudin	Graduated	2026	Effects of High-Pressure Processing on the Storage Stability of Kelulut Honey Ginger-Based Functional Beverage in Comparison with Pure Kelulut Honey	Supervisor
4	Nur Amirah Abdul Latif	Graduated	2025	Nutritional, Physicochemical and Sensory Properties of Non-Dairy Ice Cream Formulated from Jackfruit (Artocarpus Heterophyllus) Seed Milk	Supervisor
5	Nurul Iwana Jaidi	Graduated	2025	Formulation of Kuih Talam Pandan Using Jackfruit (Artocarpus Heterophyllus) Seed Milk as a Sustainable Ingredient to Replace Coconut Milk	Supervisor
6	Ilya Dayini Azeman	Graduated	2025	Monitoring The Presence of Bioactive Compounds in Stingless Bee Honey (Heterotrigona Itama) from Acacia Forest in Selangor and Sarawak	Supervisor

No.	Name	Status	Period / Year	Thesis / Project Title	Role
7	Koh Yee Xuan	Graduated	2025	Unveiling the Effect of Trehalulose in Functional Beverages on Hyperglycaemic Danio Rerio Zebrafish Model In Vivo	Supervisor
8	Chole Chanel Tan Suat Yinn	Graduated	2024	Effects of HPP-Treated Kelulut Honey-Ginger-Based Functional Beverage on Hyperglycemic Zebrafish Model	Supervisor
9	Nur Maisarah Sagi	Graduated	2024	Effect of Storage Study on Microbiological Quality and Physicochemical Properties of Optimization High-Pressure Processing (HPP) Kelulut Honey Ginger Beverage	Supervisor
10	Elisha Yiu	Graduated	2024	Preparation And Evaluation of Ready-To-Serve Ginger Drink Sweetened with Trehalose And Fortified With Vitamin C	Supervisor
11	Akmal Fikri Azman	Graduated	2023	Effect of Storage on Antioxidant and Physicochemical Properties of Stingless Bee Honey as Sweetener for Carbonated Beverage	Supervisor
12	Wan Nur Amira Wan Muen	Graduated	2023	Effect of Storage on Physicohemical Properties and Antioxidant Activities of Pineapple and Kelulut Honey Carbonated Drink	Supervisor
13	Farah Adilah Md Jaffry	Graduated	2022	Melissopalynological study, sugar profile, and antioxidant properties of stingless bee (Geniotriogna thoracica) honey.	Supervisor
14	Nur Sharafuna Irdina Mohd Arshad	Graduated	2022	Melissopalynology study, sugar profile and antioxidant properties of stingless bee honey from Heterotrigona itama species.	Supervisor
15	Norliyana Mohd Rosdi	Graduated	2022	Melissopalynological study of Antigonon leptopus pollen in stingless bee honey and the relationship with sugar and antioxidant properties.	Supervisor
16	Chong Pei Juin	Graduated	2021	Relationship Between Vitamins and Antioxidants Activities in Honey.	Supervisor
17	Nawar Nabilah Ramli	Graduated	2021	Amino Acids and Antioxidant Content in Honey and Their Correlation.	Supervisor
18	Nurul Nadhirah Mohd Tom	Graduated	2021	Correlation of Flavonoids and Antioxidant Activities in Unifloral and Multifloral Honey.	Supervisor
19	Nurkhairina Solehah Saiful Anuar	Graduated	2021	Correlation of Phenolic Acids and Antioxidants Activities in Honey: A Literature Review.	Supervisor
20	Amirun Afiq Badrul Hisham	Graduated	2020	Stingless Bee Bread (Heterotrigona itama) Extract as Antioxidant in Fish Sausages.	Supervisor
21	Nur Atifa Mustapa	Graduated	2020	Stingless Bee Bread (Heterotrigona itama) Extract as Anti-Microbial and Anti-Bacterial Agent in Fish Sausage.	Supervisor
22	Muhammad Azri Abd Rahim	Graduated	2020	Effects of Thermal Treatment on Phenolic Contents and Antioxidant Properties of Heterotrigona itama and Tetragonula hockingsi Honey.	Supervisor
23	Shahira A Hamid	Graduated	2020	Phenolic Compounds Content and Antioxidant Activity of Chromolaena odorata and Ageratum conyzoides,	Supervisor
24	Ilia Natasya Ramli	Graduated	2020	Effect of Different Geographical Origins and Heat Treatment on the Anti-Bacterial and Anti-Fungal Properties of Heterotrigona itama Honey.	Supervisor

No.	Name	Status	Period / Year	Thesis / Project Title	Role
25	Nurul Ainaa Farhanah Mat Ramlan	Graduated	2019	Effect of Heat Treatment on the Antibacterial Activity and Antioxidant Properties of Geniotrigona thoracica and Tetragonula carbonaria Honey.	Supervisor
26	Aina Syahirah Md Zin	Graduated	2019	Effect of Thermal Treatment on Antibacterial Properties and Antioxidants Activity of Heterotrigona itama and Tetragonula carbonaria Honey.	Supervisor
27	Nur Fatihah Safari	Graduated	2019	Effect of Thermal Treatment on Antibacterial and Antioxidant Activities of Heterotrigona itama and Tetragonula hockingsi Honey.	Supervisor
28	Nurun Nadhirah Latiff	Graduated	2018	Effect of Chemical and Antioxidant Properties in Biscuits Fortified with Stingless Bee Collected Pollen (Geniotrigona thoracica).	Supervisor
29	Adibah Abdullah	Graduated	2018	The Effect of Bee Collected Pollen from Stingless Bee (Geniotrigona thoracica) Fortification on the Texture and Colour in Food Systems.	Supervisor
30	Nur Khalishah Mohamad Shah	Graduated	2018	Antioxidant Activities and Microbial Quality of Fish Sausages Fortified with Bee Pollen Powder (Geniotrigona thoracica sp.).	Supervisor
31	Siti Farhanah Mohd Razali	Graduated	2017	Fortification of Yellow Alkaline Noodle with Kappaphycus alvarezii Seaweed Puree	Supervisor
32	Nur Hidayahtul Nabilah Mohamad Rozaiman	Graduated	2017	Quality Characteristics of Flat Rice Noodles (Kuetiau) Supplemented with Seaweed Puree.	Supervisor
33	Athiah Nabihah Laizani	Graduated	2017	Physicochemical Properties and Sensory Attributes in Fish Sausages with Seaweed (Kappaphycus alvarezii).	Supervisor
34	Norliyana Mat Noh	Graduated	2016	Physico-chemical Characteristics and Sensory Properties of Instant Cereal Beverages.	Supervisor
35	Siti Raihanah Mohd Saleh	Graduated	2016	Antioxidant Activities in Persimmon Leaves Cookies.	Supervisor
36	Raja Maisarah Raja Lawang	Graduated	2016	Antioxidant Activities of Persimmon (Diospyros Kaki. L) Leaves Low-Sugar Cookies.	Supervisor
37	Chan Lin Chong	Graduated	2016	Quality Characteristics of Persimmon Leaves (Diospyros kaki. L) Cookies Supplemented with Defatted Rice Bran Flour.	Supervisor
38	Yoheshni Balakrishnaa	Graduated	2016	Quality Characteristics of Low-Sugar Cookies Supplemented with Persimmon Leaf Powder and Defatted Rice Bran.	Supervisor
39	Jew Yi Ling	Graduated	2016	Antioxidant Activities of Persimmon Leaves Cookies Supplemented with Defatted Rice Bran.	Supervisor
40	Nuurshila Mhd Hashim	Graduated	2016	Quality Characteristics of Persimmon (Diospyros kaki L.) Leaves Cookies.	Supervisor
41	Mohamad Afifi Ismail	Graduated	2016	Determination of Total Phenolic Contents, Total Flavonoid Contents and Antioxidant Activity in Strobilanthes crispus Leaves Extracted Using Subcritical CO2 Soxhlet (SCDS) Extraction.	Supervisor
42	Nursyafika Hamidan	Graduated	2015	Determination of Total Phenolic Contents and Antioxidant Activity in Strobilanthes crispus Leaves Extracted using Subcritical Water Condition.	Supervisor
43	Nor Zalilah Muhamad	Graduated	2014	Determination of Phenolic Contents in Strobilanthes crispus Leaves Extracted using Chloroform-Methanol.	Supervisor

No.	Name	Status	Period / Year	Thesis / Project Title	Role
44	Nurul Huda Othman	Graduated	2014	Cytotoxic Activity of Strobilanthes crispus Leaves Extracted with Chloroform-Methanol.	Supervisor
45	Hafizah Fara Mior Samsudin	Graduated	2014	Determination of Phenolic Contents and Antioxidant Activity in Strobilanthes crispus by Carbon Dioxide Extraction.	Supervisor
46	Nur Adlina Abd Manan	Graduated	2014	Cytotoxic Activity of Strobilanthes crispus Leaves Extracted with Ethanol and Water.	Supervisor
47	Nor Adilah Abdullah	Graduated	2014	Determination of Total Phenolic Compound and Antioxidant Activity of Strobilanthes crispus Extracts.	Supervisor
48	Zakiah Jamaludin	Graduated	2014	Cytotoxic Activity of Strobilanthes crispus Leaves Extracted with Liquid Carbon Dioxide.	Supervisor
49	Rojana Ahma Zainai	Graduated	2013	Quality Evaluation of Defatted Kenaf Seed Flour Incorporated into Yellow Alkaline Noodles.	Supervisor
50	Prashanti PK Gangadharan	Graduated	2013	Nutritional Evaluation of Yellow Alkaline Noodles from Defatted Kenaf Seeds.	Supervisor
51	Jamillahtun Anisyak Mohamad	Graduated	2012	Quality Evaluation of Rice Bran Noodle.	Supervisor
52	Siti Nadzirah Mahpof	Graduated	2012	Nutritional Evaluation on Defatted Kenaf Noodle	Supervisor
53	Fathahiyah Soid	Graduated	2012	Nutritional Evaluation of Rice Bran Noodle	Supervisor
54	Nur Sabrina Kamarulzaman	Graduated	2012	Quality Evaluation on Defatted Kenaf Noodle.	Supervisor

M POSTGRADUATE STUDENT ACHIEVEMENTS

Awards received by postgraduate students under the main supervision of N. Zawawi.

Year	Student (Programme)	Award	Event / Awarding Body	Work
2025	Farah Adilah Md Jafrry (MSc)	**Third Prize, Oral Presentation (Category: Agri-Food Lifecycle and Informatics)**	The 7th International Conference on Agricultural and Food Engineering (CAFEi) 2025	Sugar Profile and Antioxidant Properties of Cocos nucifera Floral Nectar Solutions as Feed Source for Production of High-Quality Stingless Bee Honey (with N.A.F. Mat Ramlan, N.S. Zaini, P.E. Megat Wahab, N. Zawawi)
2024	Nur Syamimi Zaini (MSc)	**First Prize, MSAE Best Thesis Award 2023 (Master category)**	Malaysian Society of Agricultural and Food Engineers (MSAE); presented 15 May 2024	Nutritional and Toxicological Studies of Plant-Based Milk from Kenaf (Hibiscus cannabinus L.) Seeds
2023	Nurul Ainaa Farhanah Mat Ramlan (MSc)	**First Place, Postgraduate Research Paper (Poster), Food Science Category**	MIFT 13th National Food Science and Technology Competition, Malaysian Institute of Food Technology, Monash University Malaysia (5–6 August 2023)	Three-Year Comparison of Sugar Composition, Including Trehalulose, in Geniotrigona thoracica and Heterotrigona itama Honey

N INTERNSHIP SUPERVISION

Host supervisor for industrial training (internship) students placed at Universiti Putra Malaysia — 9 students from UPM, Universiti Malaya and UiTM (2024 – 2026).

No.	Student	Programme / Institution	Period	Placement
1	Liyana Arissa binti Luvis	Department of Fiqh-Usul and Applied Science, Academy of Islamic Studies, Universiti Malaya	27 Jul – 12 Oct 2026	Halal Products Research Institute, UPM
2	Muhammad Zaid Haritha bin Anuar	Bachelor of Science in Biochemistry (Hons), Faculty of Biotechnology and Biomolecular Sciences, UPM	23 Mar – 6 Sep 2026	Halal Products Research Institute, UPM

No.	Student	Programme / Institution	Period	Placement
3	Ariff Hafizee bin Kamal Azlan	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Halal Products Research Institute, UPM
4	Ibrahim bin Adam	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Halal Products Research Institute, UPM
5	Adriana Arrissa binti Azmi	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Halal Products Research Institute, UPM
6	'Aaeisyah Maisarah binti Zulhaidi	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Faculty of Food Science and Technology, UPM
7	Maryam Jamilah binti Abdul Razak	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Faculty of Food Science and Technology, UPM
8	Widad Fitriah binti Suhaime	Diploma in Halal Management (IC120), Universiti Teknologi MARA (UiTM) Kuala Pilah	11 Aug – 31 Oct 2025	Faculty of Food Science and Technology, UPM
9	Muhammad Irfan bin Mohamad Nadzim	Bachelor of Science in Biology (Hons), Faculty of Science, UPM	14 May – 15 Aug 2024	Halal Products Research Institute, UPM

O CONTRIBUTIONS TO UNDERGRADUATE EDUCATION

Undergraduate courses taught

- Introduction to Food Science (FST3003) – 2014 – 2018
- Nutrient Changes in Foods (FST3113, FST3701) – 2012 – 2023
- Nutrient Changes in Food Processing (FMO3101) – 2021 – 2026
- Nutrition in Food Service (FSM3204, FSM3208) – 2013 – 2023
- Functional Chemistry of Food Ingredients (FSM3101) – 2012 – 2017
- Food for Specific Groups (FST4704) – 2012 – 2015
- Functional Food Chemistry (FST4701) – 2013
- Issues and Controversies in Food (FST4702) – 2013
- Final-Year Project / Bachelor Dissertation (FST4999A, FST4959A/B) – 2011 – 2026
- Integrity and Anti-Corruption Course (KIAR, FEM2313), including Module 2 "Integrity is the Core of Wellbeing" – UPM

Teaching innovations: Food Diary Project (2019); Osteoporosis and Calorie Counting case studies (2020); "How It's Made" infographic poster and "Suku-Suku Separuh" healthy menu video challenge (2021). Student evaluation of teaching, 2011 – 2023: 40 course sections rated 4.0 or above (highest 4.85 out of 5); courses delivered with blended learning since 2015/2016.

Student evaluation of teaching, 2024/2025: mean scores of 4.07 – 4.61 out of 5 across six course sections (undergraduate and postgraduate).

Supervision, assessment and student development

Year	Activity	Role
2026	Wacana Integriti: Bersama Membanteras Rasuah 3.0 (Integrity Discourse: Together Against Corruption), Student Anti-Corruption Corps (AMAR) UPM with the Malaysian Anti-Corruption Commission (SPRM) (11 June 2026)	**Student Advisor, Integrity and Anti-Corruption Course (KIAR)**
2026	Industrial Training (Latihan Industri), Semester 2 2025/2026, Faculty of Food Science and Technology, UPM (March – August 2026)	**Industrial Training Supervising Lecturer (PPLI)**
2026	Final-Year Thesis (FST4959B Bachelor Dissertation), Bachelor of Food Science and Technology, Semester 1 2025/2026, Faculty of Food Science and Technology, UPM	**Thesis Examiner**
2025	Wacana Integriti: Bersama Membanteras Rasuah (Integrity Discourse: Together Against Corruption), Student Anti-Corruption Corps (AMAR) UPM (14 June 2025)	**Invited Facilitator (Tenaga Pengajar)**

Year	Activity	Role
2025	Industrial Training (Latihan Industri), Semester 2 2024/2025, Faculty of Food Science and Technology, UPM (17 March – 1 August 2025)	**Industrial Training Supervising Lecturer (PPLI)**
2025	Final-Year Research Seminar, Bachelor of Food Science and Technology, Semester 1 2024/2025, Faculty of Food Science and Technology, UPM	**Seminar Examiner**
2025	3rd Food Science and Technology Undergraduate Colloquium (FOSTUC) 2025 (UMT, UPM, UMS and UiTM)	**Judge**
2024	Wacana Integriti dan Anti-Rasuah 2024 (Integrity and Anti-Corruption Discourse), UPM	**Committee Member**
2024	Bachelor of Science in Food Biotechnology, Faculty of Science and Technology, Universiti Sains Islam Malaysia (USIM), Semester II 2023/2024: moderation of examination papers for SBT3023 Food Processing Technology and SBP3012 Halal Food Production (appointed 1 August 2024)	**Academic Programme Moderator (Course Reviewer)**
2024	Industrial Training (Latihan Industri), Semester 2 2023/2024, Faculty of Food Science and Technology, UPM (18 March – 2 September 2024)	**Industrial Training Supervising Lecturer (PPLI)**
2024 – 2025	Final-Year Research Project (FST4959 Bachelor Dissertation), Bachelor of Food Science and Technology, Semester 2 2023/2024 – Semester 1 2024/2025, Faculty of Food Science and Technology, UPM	**Project Supervisor**
2024	BGY4903 Industrial Training, Bachelor of Science in Biology, Semester 2 2023/2024, Faculty of Science, UPM	**Industrial Training Supervisor**
2021 – 2022	Final-Year Seminars and Vivas (FSM4801 Seminar, BSTM Viva, FST4959B Seminar and Viva), FSTM, UPM	**Seminar and Viva Panel**
2016	Student Product Evaluation, Food Service Product Development Course (FSM4207), FSTM, UPM	**Product Evaluator**
2014 – 2023	Industrial Training Supervision Visits (30 students), FSTM, UPM	**Visiting Supervisor**
2013	Final-Year Project Viva, Bachelor of Science in Food Technology, FSTM, UPM	**Viva Examiner**
2012 – 2024	Academic Advisor to 42 undergraduate students, FSTM, UPM	**Academic Advisor**
2012 – 2014	Full Accreditation of the Bachelor of Science in Food Service Management	**Audit Panel Assessor**
2011	Final Examination Judge, Product Development Course (FSM4002), FSTM, UPM	**Examination Judge**
—	Final-year undergraduate research projects (54 students; see Section L)	**Supervisor**

P PUBLISHING IDS AND PROFESSIONAL NETWORKS

SCOPUS AUTHOR ID	57147790000 (52 documents; 1,427 citations; h-index 22; FWCI 1.07; as at 20 Nov 2026)
ORCID	https://orcid.org/0000-0001-7459-5025
GOOGLE SCHOLAR	scholar.google.com/citations?user=N_OKDxQAAAAJ (2,109 citations; h-index 24; i10-index 35; as at 20 Nov 2026)
RESEARCHGATE	researchgate.net/profile/Norhasnida_Zawawi (Research Interest Score 1,370; 1,879 citations; h-index 23; 40,569 reads; as at 20 Nov 2026)
LINKEDIN	Norhasnida Zawawi
FACEBOOK PAGE	Dr. Norhasnida Zawawi and Research Team (facebook.com/nidaresearch)