



PROF. DR. IRWANDI JASWIR

- King Faisal International Prize Laureate 2018 in Service to Islam
 - Indonesian Institute for Science (LIPI) Award 2019
 - Renowned Scholar in Halal Science
 - World-Class Scientist (H-index 28 with 2603 Citations)
- Habibie Award 2013 Recipient in Medicine and Biotechnology
 - Asia Pacific Young Scientist Award by Scopus in 2010
 - Professor of Food Chemistry and Biochemistry
- Former Director and Deputy Dean, International Institute for Halal Research and Training (INHART), and
- Secretary, Council of Professors, International Islamic University Malaysia
- Advisor, Aladdin Group (a Halal E-Commerce company), 2018 - present
 - Leading Consultant, Haebara Group (a Halal Poultry Company), Singapore and Korea, 2018 - present
- Consultant, Saudi Food and Drug Authority (SFDA), 2019 - present

CURRICULUM VITAE

Name : **PROF. DR. IRWANDI JASWIR**

Current Position: **1. Professor**, Food Chemistry and Biochemistry,
International Islamic University Malaysia
2. Former Director and Deputy Dean,
International Institute for Halal Research
and Training (INHART), International Islamic University
Malaysia (IIUM)
3. Secretary, IIUM Council of Professors

Other Position:

- 1. Chairman**, Korea-Inhart Halal Certification Authority
- 2. Consultant**, Halal Centre, Saudi Food and Drugs
Authority (SFDA), Kingdom of Saudi Arabia
- 3. Senior Consultant** of Food Safety, Pure and Good Ltd,
Singapore
- 4. Consultant**, Aladdin Group (Halal E-Commerce) Sdn
Bhd. Kuala Lumpur, Malaysia
- 5. Board Member**, Haebara Pte Ltd (Halal Poultry), South
Korea
- 6. Board Member**, Skinmatch Sdn Bhd (Halal Cosmetics),
Kuala Lumpur

Born Medan, 20th December 1970
Nationality Indonesian
Religion: Islam
Marital Status : Married (with 4 kids)
Email : irwandi@iium.edu.my; ir98@hotmail.com

Education

1. Bachelor Degree (with honours) in *Food Technology and Human Nutrition*.
Bogor Agriculture University (IPB), Indonesia, 1989-1993
2. Master of Science (M.Sc.) in *Food Science and Biotechnology*, Universiti
Pertanian Malaysia (UPM), 1994-1996

3. Philosophy of Doctor (Ph.D) in *Food Chemistry and Biochemistry*, Universiti Putra Malaysia (UPM), 1997-2000
4. Ph.D Exchange Programme, Dept. of Food, Nutrition and Health, University of British Columbia (UBC), Canada, 1989-1999
5. Diploma in Islamic Revealed Knowledge, International Islamic University Malaysia, 2002-2003.
6. Postdoctoral Fellowship in *Lipid Biochemistry*, National Food Research Institute (NFRI), Tsukuba, Japan, 2006-2008

Professional Experience

1. Career Highlights

- Senior Professor (Food Chemistry and Biochemistry), International Islamic University Malaysia, 2015- present.
- Professor (Food Chemistry and Biochemistry), International Islamic University Malaysia, 2011- 2015.
- Academic Staff, Faculty of Pharmacy, Universitas Ahmad Dahlan, 2019 – present.
- Director, International Institute for Halal Research and Training, IIUM, 2014-2016.
- Deputy Dean, International Institute for Halal Research and Training, IIUM, 2017- Present.
- Deputy Dean (Research Initiatives), Research Management Centre International Islamic University Malaysia, 2011-2014.
- Secretary, IIUM Council of Professors, 2014 – present.
- Chairman, Korea-INHART, Halal Certification Authority, 2016 – present.
- Consultant, Halal Food Industries, 2010 – present
- Acting Dean, Research Management Centre (RMC), IIUM, several times, between 2011-2013.
- Associate Professor, International Islamic University Malaysia (IIUM); 2005-2011

- Coordinator, Bioprocess and Molecular Engineering Research Unit (BPMERU), 2011-present
- Coordinator (Research), Halal Industry Research Centre, International Islamic University Malaysia (IIUM), 2008-2011.
- Visiting Researcher, National Food Research Institute, Tsukuba, Japan; 2006-2008
- Visiting Professor, Kagawa University, Japan. 2008.
- Deputy Dean (Student Affairs), Faculty of Science, IIUM; 2005-2006
- Coordinator, Functional Food Research Unit, IIUM; 2004-2006
- Academic Advisor, IIUM; 2004-2005
- Coordinator, Biotechnology Programme, IIUM; 2002-2003
- Assistant Professor, Dept. Biotechnology, IIUM; 2001-2005
- Research Fellow, University of British Columbia (UBC), Canada; 1998-1999
- Research and Teaching Assistant, Universiti Putra Malaysia (UPM); 1994-1997

Research Project Activities

On-Going Research Projects (Related to Halal Science)

1. Data Management of Various Non-Halal Adulterations and Development of Portable Halal Device. **RM 160,000**. Ministry of Education, Malaysia. 2018-2019. Project Leader
2. Production and Characterization of Halal Fish Collagen Nanoparticles (NPs) for encapsulating bioactive peptides. E-Science fund. **RM 279,000**. Project Leader
3. Production of Non-Thermally Processed Halal Ingredient from Local Sources. MIRGS grant. **RM 280,000**. Project leader.
4. Inoculant Development and Studies of Health Beneficial Effects Gaharu. **RM 5,000,000**. Co-researcher. 2011. Funded by Kayu Gaharu Sdn Bhd.

5. Rapid Detection of Non-Halal Substances in Dental Materials MIRGS grant. **RM 100,000.** Co-researcher.
6. Lard and Alcohol Detection in Food and Beverages Using Newly Developed Portable Near Infrared Microspectrometer MIRGS grant. 2013. **RM 280,000.** Co-researcher.
7. Development of Integrated Technologies for Extraction, Purification and Mass Production of natural Carotenoid Pigments as Halal Food Colorants Through Cell Culture MIRGS grant. 2013. **RM 100,000.** Co-researcher.
8. Halal Governance : Traceability in the Gelatin Industry-Development of Halal Compliant for Gelatin-Based Product from Farm to Table MIRGS grant. 2013. **RM 30,000.** Co-researcher.
9. NIRGS. Development of Shariah Compliant Procedures of Islamic Tourism. **RM 1,5 million.** Co-Researcher.
10. Therapeutic Effect of Sarang Semut Plant Extract (*Myrmecodya Pendens*) on Wound Healing in Oral Cavity. RAGS grant 2013. **RM 45,000.** Co-researcher.
11. Study on the antioxidant activities of lutein and beta-carotene and their properties in cellular level. EDW B grant. **RM 20,000.** Co-researcher.

Successfully Completed Research Projects

1. Production of Halal Food Ingredients from Brown Seaweeds. RM 1.2 m. Funded by Malaysian Innovation Agency. 2017-2019. Project Leader.
2. Development of Portable Lard and Alcohol Detector (LAD) Pen for Commercialisation. Malaysian Innovation Agency. RM 960,000. 2015-2017. Co-Researcher.
3. Application of nano-technology in the Production of Halal gelatin derived from Camel Carcasses. National Plan for Science and Technology (NPST), Kingdom of Saudi Arabia, SAR 2 million (RM 1.8 m). Project Leader (for project conducted in Malaysia). 2013-2016.
4. Detection of Pork, Lard and Pig-derived Gelatin in Food Products. National Plan for Science and Technology (NPST), Kingdom of Saudi Arabia, SAR 2 million (RM 1.8 m). Project Leader (for project conducted in Malaysia). 2010-2013.
5. Studies on Carotenoids from Local Sources for Their Anti-Inflammatory and Anti-Obesity Properties. RMGS grant. RM 125,000. Project leader.

6. Study on the Production and Characterization of Fish Collagen Nanoparticles (NPs) from Local Sources and Incorporation of NPs in Food System. FRGS Grant. RM 120,000. Project Leader.
7. Halal Analyses of Various Local Food Ingredients. RIGS Grant. RM 20,000. Ministry of Higher Education Grant (RIGS). 2016. Project Leader.
8. Study on Microencapsulation and Delivery of Fucoxanthin Derived from Malaysian Brown Seaweeds for Human Lung Cancer Treatment. ERGS grant. 2012. RM 71,000. Project leader.
9. Antioxidant Properties Of Chemically Prepared Fish Skin Hydrolysate Produced From Barramundi Research. Endowment Fund Type A. RM 5,000. 2012. Project leader.
10. Portable Electronic Nose for Alcohol Detection in Food and Beverages. PRGS grant. 2012. RM 70,000. Co-researcher
11. Production and Characterization of Bio-Fuel Using Engineered Photosynthetic Cyanobacteria for Global CO₂ Mitigation. FRGS grant. 2011. RM 56,400. Co-researcher
12. Development of Process Conditions for The Production of Halal Animal Feed Improved Nutrients from Agro Industrial Wastes Endowment Fund Type B. RM 20,000. Co-researcher.
13. Microbiological Guidelines of Medium Najs (Filth) Contamination in Food and on Food Equipment in Halal Food Premises. ERGS grant. 2011. RM 48,000. Co-researcher
14. Production of L-cystein from various parts of garlic plants. Research Cluster Fund RM 42,000. Co-researcher.
15. Development of gelatin replacer production from plants. **(5,000 Malaysian ringgit)**. 2010-2012. Project leader.
16. Study on dose-dependence of Malaysian dietary carotenoids in their biological actions for human cancer research. Funded by COMSTECH-TWAS Research Grant for Young Scientists, Italy. **USD 13,000**. 2009-2011. Project leader.
17. Production of halal food ingredients from local sources. Research Cluster Fund. **RM47,000**. 2008- 2011. Project leader.
18. Studies on carotenoids from local sources for food and nutraceutical application. Submitted for RMC Matching grant (with Hokkaido University, Japan). RM **207,000**. 2009-2011. Project leader.

19. Production of astaxanthin from marine sources using fermentation. Research Management Centre, IIUM. Research Endowment Fund Type B: **RM 20,000**. 2010-2011. Project leader.
20. Solubilization of dietary antioxidants for delivery of human hepatocellular liver carcinoma cell line and their antioxidants activities. Research Management Centre, IIUM. Research Endowment Fund Type B: **RM20,000**. 2008- 2010. Project leader.
21. Extraction and characterization of bioactive lipid components from rubber seeds. Funded by the Research Centre, IIUM. 2006-2009. **RM 50,000**. Project leader
22. Rapid Detection of Alcohol Content in Mouthwash using Locally Portable E-Nose. RACE grant. **RM 46,000**. 2013-2015.
23. Rapid Detection of Non Halal Substances in Dental Materials using FTIR. RACE grant. **RM 48,000**. 2013-2015.
24. Dose-dependence of dietary antioxidants in their biological actions. Funded by Japan Society for Promotion of Science (JSPS). 2006-2008. **6 million Japanese Yen**). Co-Researcher
25. Optimization of natural antioxidants in different cooking oil systems during frying. Research Management Centre, IIUM. Research Endowment Fund Type A. **RM 5,000**. 2008- 2009. Project leader.
26. Efficacy of some local spices in preventing peroxidation reaction in model and food oil systems. Funded by the Research Center, IIUM. 2001-2002 **RM 20,000**. Project leader
27. Detection of lard in mixture of other animal fats by Fourier Transform Infrared Spectroscopy (FTIR). Funded by the Research Center, IIUM. 2002-2003. **RM 20,000**. Project leader
28. Study on fatty acid profiles of marine sources of Malaysia. Funded by the Research Centre, IIUM. 2003-2006. **RM 50,000**. Project leader
29. Study on mangrove in Langkawi Island. Funded by the Research Centre, IIUM. 2004-2007 **RM 50,000**. Project leader
30. Mathematical modeling for oxidation rate of cooking oil in Malaysia. Kulliyah of Science, IIUM. 2001-2002. Project leader
31. Preliminary studies on fish gelatin production. Kulliyah of Science, IIUM. 2004-2005. Project leader
32. Enzymatic process for improvement of halal gelatin products. Kulliyah of Science, IIUM. 2005-2006. Project leader

33. Extraction and determination of lechitin in edible oils. Kuliyah of Science, IIUM. 2005-2006. Project leader
34. Application of FTIR for determination of halal and non-halal leather products. Kuliyah of Science, IIUM. 2005-2006. Project leader
35. Determination of Antioxidants and Vitamins in Ricebran Oils. Kuliyah of Science, IIUM. 2005-2006. Project leader.
36. The effects of preliminary soaking on the urea level and sensory evaluation of smoked shark fillet during storage. Funded by Fisheries Department, Indonesia. 1993-1994 **(50 million Indonesia rupiah).**

Patent, Awards and Recognition

1. Patent:

- METHOD OF EXTRACTING ESSENTIAL OIL AND CAROTENOID FROM MARINE ALGAE. PI 2015703043
- PRODUCTION OF HALAL NANO MATERIALS FROM FISH COLLAGEN EXTRACTS. PI 2011000067
- NEW METHOD FOR IMPROVING SOLUBILIZATION AND UPTAKE OF DELIVERY ANTIOXIDANTS IN HUMAN HEPATOCELLULAR LIVER CARCINOMA CELL CULTURE. PI 2012001393
- PRODUCTION OF HALAL INGREDIENTS USING HIGH PRESSURE PROCESSING. PI 2017701242
- TRAINING MODUL FOR CERTIFIEND HALAL INTERNAL AUDITOR. GRANTED IN 2016.
- PRODUCTION OF HALAL GELATIN FROM LOCAL GOAT IN INDONESIA. PATENTED IN INDONESIA. 2016.

2. Honors, Awards and Fellowship:

- **KING FAISAL INTERNATIONAL PRIZE LAUREATE 2018 IN SERVICE TO ISLAM.**
- **HABIBIE AWARD. 2013** in Medicine and Biotechnology

- **Islamic Product Innovation Award. 2017.** By Malaysian Innovation Agency. (Halal Ingredients)
- **Islamic Product Innovation Award. 2016.** By Malaysian Innovation Agency (Lard Detector using E-nose)
- **IIUM OUTSTANDING RESEARCH AWARD, 2012**
- **Two GOLD MEDALS. iENA 2013,** Nuremberg, Germany. (Halal Materials for Health Benefits)
- **Two Silver Medals. British Invention Show 2014,** London, UK (Halal Gelatin-Based Supplement)
- **BEST INNOVATION AWARD. World Halal Research Summit 2012.** Novel of Plant-based Gelatin Replacer from Local Fruit Waste.
- **BEST INNOVATION AWARD. World Halal Research Summit 2011,** June 2011. Kuala Lumpur. Title: Rapid detection of ethanol in food and drinks using IIUM-fabricated electronic nose.
- **BEST INNOVATION AWARD. World Halal Research Summit 2010,** June 2010. Kuala Lumpur. Title: Halal nano-materials from fish skin.
- **IIUM OUTSTANDING RESEARCHER AWARDS 2010.** International Islamic University Malaysia
- **GOLD MEDAL. Malaysian Technology Exposition 2010.** Title of invention: Finogel-Halal Nanomaterials from Fish Collagen Extract.
- **BRONZE MEDAL. Malaysian Technology Exposition 2010.** Title of invention: Special Oils for Halal and Safe Cosmetics
- **ASIA PACIFIC YOUNG SCIENTISTS AWARD 2009 by Prosper.Net-SCOPUS.** (Award ceremony held in Bangkok, June 2009).
- **COMSTECH-TWAS GRANT FOR YOUNG SCIENTIST 2009.** COMSTECH-OIC and The Academy of Sciences for Developing World, UNESCO, Rome, Italy. 2009.
- **HALAL SCIENCE RESEARCH AWARD 2009. Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT).** Award ceremony held in Kuala Lumpur during International Halal Symposium, December 2009.
- **SPECIAL RECOGNITION. Research Management Centre Open Day, 2009.** Award handed over by the Rector of IIUM.

- **BRONZE MEDAL. Malaysian Technology Exposition 2009.** Kuala Lumpur. Title of invention: Production of halal nano-materials through enzymatic process.
- **GOLD MEDAL. IRIIE 2013.** Title of invention: Production of Beta-carotene from callus of sweet potato.
- **Commercial Award. IRIIE 2013.**
- **GOLD MEDAL, PECIPTA 2013.** Brown Seaweed as Anti-Cancer
- **Commercial Award, PECIPTA 2013.** Brown Seaweed as Anti-Cancer
- **SILVER MEDAL, PECIPTA 2013.**
- **GOLD MEDAL. IRIIE 2012.** Title of invention: Anti-cancer properties of fucoxanthin extracted from Malaysian sources.
- **GOLD MEDAL. IRIIE 2012.** Title of invention: Anti-cancer properties of fucoxanthin extracted from Malaysian sources.
- **GOLD MEDAL. IRIIE 2011.** Title of invention: Anti-cancer properties of fucoxanthin extracted from Malaysian sources.
- **GOLD MEDAL. IRIIE 2011.** Title of invention: Production of astaxanthin from seafood waste using fermentation.
- **SILVER MEDAL. IRIIE 2011.** Title of invention: Gelatin replacer from plant. Potential Commercial Awards. IRIIE 2011. Title of invention: Gelatin replacer from plant.
- **GOLD MEDAL. IRIIE 2010.** Title of invention: Finogel-Halal Nanomaterials from Fish Collagen Extract.
- **SILVER MEDAL. IRIIE 2010.** Title of invention: Special oils for halal and safe cosmetics
- **BRONZE MEDAL. IRIIE 2010.** Title of invention: Fatty acids, mineral and heavy metal contents of different Malaysian fish species.
- **BRONZE MEDAL. IRIIE 2010.** Title of invention: Focixanthin-Anti cancer, Antioxidant and Apoptosis Induced Agent from Malaysian Brown Seaweed.
- **BRONZE MEDAL. IRIIE 2010.** Title of invention: Fucoxanthin-Anti cancer, Antioxidant and Apoptosis Induced Agent from Malaysian Brown Seaweed.
- **BRONZE MEDAL. IRIIE 2010.** Title of invention: Production of Phytosterols from Rubberseeds.

- **GOLD MEDAL.** Kerie Invention Expo, IIUM, 2009. Production of high quality halal gelatins through enzymatic process. Kuala Lumpur, January, 2009.
- **SILVER MEDAL** Kerie Invention Expo, IIUM, 2009. Title: New method for improving solubilization and uptake of lutein and carotenoids in human hepatocellular liver carcinoma (HepG2) cell culture. _Kuala Lumpur, January, 2009.
- **BRONZE MEDAL.** Kerie Invention Expo, IIUM, 2009. Title: Omega-3 and omega-6 fatty acids as food supplements from marine fishes of Tuba Island. Langkawi, Malaysia. _Kuala Lumpur, January, 2009.
- **BRONZE MEDAL** Kerie Invention Expo, IIUM, 2009. Title: Dyes in cosmetics, textile and food: Point from Islamic perspective. Kuala Lumpur, January, 2009.
- Included in “**Who’s Who in the World 2009**” (Published in the USA)
- Included in “**Who’s Who in the World 2008: Science and Engineering**” (Published in the USA)
- **Japan Society for the Promotion of Science (JSPS) Research Fellowship Award.** Selected as one of only two successful candidates from nearly 100 young scientist applicants worldwide for the most prestigious fellowship in Japan, at the National Food Research Institute (NFRI), Tsukuba, Japan, 2006-2008.
- **GOLD MEDAL.** The 34th International Exhibition of Inventions, New Techniques and Products of **Geneva**, 5-9 April 2006, Geneva (Switzerland). Title of invention: *Rapid method for detection of non halal substances in food.*
- **SILVER MEDAL.** The 34th International Exhibition of Inventions, New Techniques and Products of **Geneva**, 5-9 April 2006, Geneva (Switzerland). Title of invention: *Novel rapid analytical techniques for fats and oils industry.*
- **SILVER MEDAL,** 16th International Invention, Innovation Industrial Design & Technology Exhibition 2005 (ITEX 2005), Kuala Lumpur. Title of invention: *Rapid method for detection of non halal substances in food using FTIR*
- **GOLD MEDAL.** Kerie Invention Expo, IIUM, 2009. Production of high quality halal gelatins through enzymatic process. Kuala Lumpur, January, 2009.
- **SILVER MEDAL.** Kerie Kerie Invention Expo, IIUM, 2009. Title: New method for improving solubilization and uptake of lutein and carotenoids in human hepatocellular liver carcinoma (HepG2) cell culture. _Kuala Lumpur, January, 2009.
- **BRONZE MEDAL.** Kerie Invention Expo, IIUM, 2009. Title: Omega-3 and omega-6 fatty acids as food supplements from marine fishes of Tuba Island. Langkawi, Malaysia. _Kuala Lumpur, January, 2009.

- **BRONZE MEDAL.** Kerie Invention Expo, IIUM, 2009. Title: Dyes in cosmetics, textile and food: Point from Islamic perspective. Kuala Lumpur, January, 2009.
- **BRONZE MEDAL.** Malaysian Technology Exposition 2009. Kuala Lumpur. Title of invention: Production of halal nano-materials through enzymatic process.
- **BRONZE MEDAL.** Malaysian Technology Exposition 2009. Title of invention: New method for improving solubilization and uptake of lutein in human hepatocellular liver carcinoma (HepG2) cell culture.
- Appointed as a **VISITING PROFESSOR** at Kagawa University, Japan, from March – April 2008.
- **SPECIAL RECOGNITION.** IIUM Research Management Centre (RMC) 2009.
- **SPECIAL RECOGNITION.** International Islamic University Malaysia (IIUM) 2007 Quality Day.
- **SELANGOR YOUNG SCIENTISTS AWARD 2006..** Become the first foreigner to have received the award. Selangor, Malaysia.
- **2nd Place,** Invention Competition, National Intellectual Property Day 2006. Title: *Fish gelatin; production, quality and stability.* 26-30 April 2006, Kuala Lumpur Convention Centre, Kuala Lumpur.
- **BEST RESEARCHER AWARD,** Faculty of Science, IIUM. 2004.
- **QUALITY RESEARCH AWARD,** Kulliyah of Science, IIUM. 2004. Title: *Detection of Lard in Mixture of Other Animal Fats by Fourier Transform Infrared (FTIR) Spectroscopy*
- **FIRST RUNNER-UP,,** Malaysian Institute of Food Technology (MIFT)'s Research Paper Competition, 2000. Title: *“Optimization of physico-chemical changes of palm olein with phytochemical antioxidants during deep-fat frying.”*
- **FINALIST,** 2000 UPM Invention and Research Awards. Title: *Natural antioxidant mixtures for controlling lipid oxidation during deep-fat frying*
- **SEAMEO/SEARCA Award** for attachment at the University of British Columbia (UBC), Canada as Research Fellow, 1998-1999.
- **Hugh M. Brock and Norman MacKenzie Scholarships,** at the University of British Columbia (UBC), Canada, 1998-1999.
- **Graduate Research Assistantship,** Dept. Food Technology, UPM, Malaysia, 1994-1997.

3. Appointed as Thesis External Examiner (More than 50 postgraduate students, among them are as follows)

1. Raju, M. 2007. Enhancing the bioavailability of provitamin A carotenoids from green leafy vegetables and conversion efficiency into vitamin A by dietary modulators. Phd Thesis, University of Mysore, India.
2. Myat -myat Win. 2009. Physico-chemical and sensory characteristics of blends of palm olein and other vegetable oils and their frying stability. MSc thesis. Universiti Putra Malaysia.
3. Ho Swee Kheng. Ultrasound-assisted Extraction of Phytochemical-Enriched Extract from Selected Malaysian Medicinal Herbs. MSc. Thesis Universiti Putra Malaysia.
4. Mohamed Nazim Anvarali. 2012. Production Optimization, Characterization and Storage Stability of Roselle Cordial. MSc Thesis. Universiti Putra Malaysia.
5. Al Shwyeh Hussah Abdullah. 2011. Optimization of Extraction Process for Antibacterial Compound from Local Mango kernel. MSc. International Islamic University Malaysia.
6. Anumsima Ahmad Barkat. 2011. Optimization of Extraction Process for Antidiabetic Compounds from Selected Malaysian Herb. MSc. International Islamic University Malaysia.
7. Manisya Zauri binti Abdul Wahid. 2011 PhD. International Islamic University Malaysia.
8. Saiful. 2011. MSc. International Islamic University Malaysia.
9. Liyana Binti Yahya. 2011. Identification and Extraction of Bioactive Compound from lemon Grass. MSc. International Islamic University Malaysia.
10. Tijani Ruqayyah. Animal Feed from Malaysian Waste. 2012. PhD. International Islamic University Malaysia
11. Shafiyah Binti Pondi. Universiti Teknologi Malaysia. 2017. PhD. Title: Controlled-Release of Curcumin from Poly (Lactide-Co-Glyclide) Acid/Albumin/Curcumin and Systems.
12. Norhazwani Binti Mohd Suhimi . 2017. PhD. Universiti Kebangsaan Malaysia. Penghasilan, Pengotimuman dan Pemeringkatan Kolagen Terhidrolisis daripada Proses Hidrolisis Berenzim Gelatin

4. Appointed As Judge for Scientific Events

1. Judge, to select proposal for Research Funds. The Portuguese Foundation for Science and Technology (FCT). 2012.
2. Judge, Food Cluster. Pameran Rekacipta, Penyelidikan dan Inovasi (PRPI) Malaysia, Universiti Putra Malaysia, 17-19 July 2012.
3. Judge. Poster Competition. **Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT)** International Halal Symposium Award ceremony held in Kuala Lumpur, December 2009.
4. Judge to select proposal for Research Funds. The Portuguese Foundation for Science and Technology (FCT). 2012.
5. Judge. Technical panel. FRGS grant of MOHE. 2011 – present
6. Judge. IIUM Technical Committee for RAGS grant. 2012 – present
7. Judge. Ministry of Science, Technology and Innovation (MOSTI) Science Fund. 2011 – present.

5. **Invited as Reviewer of International Journal Articles**

Being reviewer for various international reputable scientific journals, such as:

- *Indian Journal of Marine Sciences*
- *Journal of Food, Agriculture and Environment*
- *Pakistan Journal of Applied Sciences*
- *Clinical Drug Investigation*
- *Drugs in R & D.*
- *Food Chemistry*
- *Journal of the American Oil Chemists' Society (JAOCS)*
- *Journal of Food Science and Technology*
- *IIUM Journal of Engineering*
- *International Food Research Journal,*
- *International Journal of Food Properties*
- *etc.*

6. **Invited and Key-note Speaker (Mostly on Halal Issues)**

- **Irwandi, J.** Halal Industry. A Public Lecture. Universitas Pasundan Bandung. 21 Jul 2018
- **Irwandi, J.** Halalan Toyyiban. Singapore EXPO Convention & Exhibition. 15 Apr 2018
- **Irwandi, J.** Understanding and Application of Standard Type of Halal Culture Halal Industry. Dong-A University, Busan, South Korea. 27 April 2018.

- **Irwandi, J.** Halal Livestocks and Poultry Industry. National Assembly Building, Seoul, South Korea, 25 April 2018.
- **Irwandi, J.** Launching of "My Halal" Application & Stadium Generale. Universitas Batik (UNIBA) Halal Research & Development at Surakarta, Indonesia. 20 February 2018.
- **Irwandi, J.** Precision Halalization in the Bioeconomy Era. International Halal Science and Technology Conference 2018. BITEC Bangkok International Trade & Exhibition Centre, Bangkok. 15 December 2018
- **Irwandi J.** Halal Supply Chain Management in 4.0 Era. International Seminar on Islamic Economics. 10 December 2018.
- **Irwandi, J.** Halal Supply Chain Management in 4.0 Era. International Seminar on Islamic Economics. 10 December 2018.
- **Irwandi, J.** Can the halal industry become a new source of economic growth? Challenges and Opportunities. The 5th Indonesia Shari'ah Economic Festival (ISEF) 2018. Surabaya, Indonesia. 14 December 2018
- **Irwandi, J.** The 4th International Islamic Monetary Economics and Finance Conference (IIMEFC) 2018. Surabaya, Indonesia. 13 December 2018.
- **Irwandi, J.** Integrasi Halal Science and Technology Seminar Nasional Aplikasi Sains dan Teknologi. Universitas Abdul-Rab, Pekanbaru. 12 December 2018
- **Irwandi, J.** Halal Aspect in Food, Cosmetics and Pharmaceuticals. Universitas Diponegoro, Semarang, Indonesia. 1 November 2018.
- **Irwandi, J.** Halal Food Research. The 4th International Conference on Tropical and Coastal Region Eco-Development (IICTCRED) 2018. Semarang. 31 October 2018.
- **Irwandi, J.** Development in Hala Industry. The 2nd International Symposium on Islamic Epistemology Ethical Problem of the Development and Utilization of Scientific Invention. Universitas Al Azhar Indonesia. 30 October 2018.
- **Irwandi, J.** The 2nd International Conference on Food Security Innovation 2018. Universitas Ageng Tirtayasa, Banten, Indonesia. 24 October 2018.
- **Irwandi, J.** International Symposium on Processing of Foods, Vegetables and Fruits. Semarang, Indonesia. 18 October 2018.
- **Irwandi J.** Kuliah Tamu; Dalam Rangka World Class Professor (WCP). Universitas Diponegoro. 18 October 2018.
- **Irwandi, J.** International Conference on Pharmaceutical Research and Practice. Universitas Islam Indonesia, Yogyakarta, Indonesia. 6 October 2018.
- **Irwandi, J.** Indonesia International Halal Lifestyle Conference and Expo 2018. 4 October 2018.
- **Irwandi, J.** Saudi Food and Drug Authority (SFDA) Annual Conference, Riyadh International Convention & Exhibition Center, Riyadh. 27 September 2018.
- **Irwandi, J.** Strategi Jitu Publikasi Internasional dan Teknik Penyusunan Proposal Internasional. Universitas Diponegoro. 16 August 2018.
- **Irwandi, J.** Current Research in Halal Science. Research Sharing Session, Kuliyah of Dentistry, IIUM, Kuantan. 30 July 2018.
- **Irwandi, J.** Seminar Nasional Pangan. Bogor Agricultural University. 12 July 2018.
- **Irwandi, J.** The 2nd International Training for Young Islamic Economic Leaders (ITYIELDs). Universitas Muhammadiyah, Yogyakarta. 10 July 2018.

- **Irwandi, J.** Dialog Tokoh. Jihad Kedaulatan Pangan. Universitas Gadjahmada. 2 June 2018.
- **Irwandi, J.** Seminar Halal Sciece. Universitas Padjadjaran Bandung. 4 my 2018.
- **Irwandi J.** Seminar Nasional Halal Industry. Universitas Negeri Padang. 10 April 2018.
- **Irwandi, J.** Diskusi Publik tentang Industri Halal. Universitas Gadjahmada. 24 February 2018.
- **Irwandi, J.** Workshop on the Establishment of Halal Ecosystem Center. 21 February 2018.
- **Irwandi, J.** Halal Authentication in Genetically Modified Foods. The 4th International Halal and Healthy Food Congress 2017. 3-5 November 2017. Ankara. Turkey.
- **Irwandi, J.** Halal Aspects in Dental Materials and Drugs. Padjadjaran University Dies Forum 2017. 3-5 November 2017. Bandung, Indonesia.
- **Irwandi, J.** The Market Potential for Halal Cosmetics. National Halal Business Forum. 23-24 October 2017. Kuala Terengganu Malaysia.
- **Irwandi, J.** Halal Industry in Malaysia and Certification Requirements for Food, Cosmetics and Pharmaceuticals. 26-27 October 2017. Xi'an International Halal Food & Trade Conference (XIHCF) 2017. Xian, China.
- **Irwandi, J.** Post-harvest Technology: Handling and Storing Fruits and vegetables for Halal Supply Chains. Gansu Silk Road Halal Trading, Exhibition and Conference. 15-17 October 2017. Pingliang, China.
- **Irwandi Jaswir.** Lipid Oxidation Studies and Their Contribution to Halal Industry. Asia Chemists Oil Society (ACOS) and 56th Japan Oil Chemists Society (JOCS) Conference 2017. 11-13 September 2017. Tokyo, Japan.
- **Irwandi Jaswir.** 'Training of Trainers' in Halal Cosmetics and Personal Care for Halal Industry Selangor, 25 september, 2017. Kuala Lumpur.
- **Irwandi Jaswir.** Importance of Halal Authentication and Business of Halal Food. Halal at the 8th Muslim World Biz organised by OIC. 20 September 2017. PWTC, Kuala Lumpur.
- **Irwandi Jaswir.** Halal Authentication in Pharmaceutical Products.. International Pharmacy Conference, Universitas Ahmad Dahlan, Yogyakarta, Indonesia. 9 September 2017.
- **Irwandi Jaswir.** Halal Issues in Dentistry. International Dentistry Seminar, Forsila III, Universitas Islam Sultan Agung, Semarang Indonesia. 12-13 August 2017.
- **Irwandi Jaswir.** Latest development in halal Science. International Seminar on Agriculture Engineering at the Universitas Lampung, Bandar Lampung. 10-11 August 2017.
- **Irwandi Jaswir.** Islamisation in Biotechnology. ISLAHI Forum. Universitas Islam Sultan Agung, Semarang, Indonesia. 3-5 August 2017.
- **Irwandi Jaswir.** "Food and Halal Lifestyle.". In Halal Lifestyle Seminar. Univeritas Islam Suna Kalijaga, Yogyakarta, Indonesia. 27 April 2017.
- **Irwandi Jaswir.** Halal Audit and Training on Halal Awareness for Korean Industry. Siheung City, Korea. 20-21 March 2017.
- **Irwandi Jaswir.** Halal Awareness campaign. Halal Awareness among Military Force Members. Kuala Lumpur, 10 march 2017.

- **Irwandi Jaswir.** Business of Halal Food. Halal Business Forum. Urumqi, China, 24-26 February 2017.
- Irwandi Jaswir. Halal research Issues and Sharing Ideas. Public Lecture. Universitas Bung Hatta, Padang Indonesia. 5 February 2017.
- **Irwandi, J.** Muslim Friendly Hospitality and Tourism. International Halal Conference, Istanbul, Nov 2014.
- **Irwandi, J.** Development of Halal Laboratory. International Halal Conference, Istanbul, Nov 2014.
- **Irwandi, J.** Anticancer Properties of Tropical Brown Seaweeds. Asian Conference on Oleo Science, 2014. Sapporo, Japan.
- **Irwandi, J.** Study on Functional properties of Brown Seaweeds. International Marine and Oceanography Conference, Jakarta, August 2014.
- **Irwandi, Jaswir.** Principles of Halal Industry. Muslim Tourism Conference, Tokyo Japan, December 2014
- **Irwandi, J.** Halal Science Perspectives. Halalan Tayyiban Conference, Universitas Brawijaya, Malang, Indonesia (March, 2014)
- **Irwandi, J.** Halal Gelatin. King Saud University, Riyadh, (February 2014)
- **Irwandi, J.** Current Issues in Halal Authentication. King Saud University, Riyadh, (February 2014)
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- **Irwandi, J.** Potential of Tropical Seaweeds for Health Benefits. Universitas Hassanuddin, Makassar, Indonesia (April 2014)
- **Irwandi, J.** Halal from the Perspective of Science. International Conference on Analytical Chemistry, Bali (September, 2014).
- **Irwandi, J.** Muslim and Scientific Research and Publications. Conference on Scientific Writing and Publication, Bandung (September, 2014).
- **Irwandi, J.** Halal Authentication in Food Industry. Halal Conference, Padang, Indonesia (July 2014).
- **Irwandi, J.** Analytical Science, Halal Product and Authentication and Development of Halal Industry. International Young Scientist Conference on Analytical Sciences, Universitas Andalas, Padang. 17-18 September 2013.
- **Irwandi, J.** Halal Industry: Potential and The Need of Research in Food Authentication. 2013. Annual Meeting of Indonesian Food Technologists' Association. Universitas Jember, (Invited speaker).
- **Irwandi, J.** Recent Advancement in Halal Food Research. UGM International Halal Seminar. Universitas Gadjahmada, Yogyakarta, Indonesia. 17-18 October 2013. (Invited speaker).
- **Irwandi, Jaswir.** Potential of Shariah Tourism. Muslim Friendly Hospitality Conference, Bukittinggi, Indonesia (September, 2014)
- **Irwandi, J.** Halal Science for the Development of Halal Industry. 3 February 2013. College of Agriculture, King Saud University, Riyadh. Kingdom of Saudi Arabia (Invited Lecture).
- **Irwandi, J.** The Use of Gelatin in Food, Pharmaceutical and Cosmetics Products. The 3rd umatera Meeting and Islamic Medical Action and Bakti Sosial Nasional 2012. Universitas Baiturrahmah, Padang, Indonesia. 19 March 2012. (Invited speaker)

- **Irwandi, J.** 2010. Recent Advancement in Laboratory Management and Halal Product Analysis. International Food Seminar, 26 November 2012. Universitas Negeri Islam Syarif Hidayatullah, Jakarta, Indonesia. (Invited speaker)
- **Irwandi J.** and Y. Che Man. 2012. Analytical Techniques to Monitor Halal Food. 1st International Conference on Halal Food Control and Exhibition, 12-15 February 2012, Riyadh, Saudi Arabia. (Invited speaker)
- **Irwandi, J.** 2012. Development of Halal Science Research. The 2nd International Seminar on Halalness and Safety of Food and Pharmaceutical Products. 17-18 October 2012. Universitas Gadjahmada, Yogyakarta, Indonesia. (Invited speaker)
- **Irwandi, J.** and K. Miyashita. 2012. Novel Functionalities of Marine Carotenoids. The 3rd International Conference on Global resource Conservation 2012. Organized by JICA-Universitas Brawijaya. 7 July 2012, UB, Malang, Indonesia. (Invited speaker).
- **Irwandi, J.** Nutritional approach in fulfilling the need of food consumption. Presented at the International Agriculture Students Association (IASA) Conference, 2 January 2008, Tokyo. (Invited speaker)
- **Irwandi, J.** F. Siddik, M.E.S. Mirghani, H.M. Salleh. Extraction and characterization of gelatine from different marine fish species. Presented at the 6th International Food Convention, 15-19 Dec 2008, Mysore, India. (Invited speaker)
- **Irwandi, J.** and M.E.S. Mirghani. Rapid method for detection of non-halal contaminants in food. Presented at the International Conference on Halal Assurance System and Workshop on Animal Derivative Issues. Indonesian Council of Ulama (MUI). 1-3 July 2009. Jakarta (Invited speaker)
- **Irwandi, J.** 2009. Integration of Islamic values into Science Teaching. Presented at the International Seminar on Islamic Education. 9-12 November, 2009. Banda Aceh, Indonesia. (Invited speaker)
- **Irwandi J.** Mathematical modeling of lipid peroxidation reactions of vegetable oil with phytochemical antioxidant treatment during frying. Presented at the 5th International Technical Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management, 31 Aug. – 2 Sept. 2009, Potsdam, Germany (Invited Speaker).
- **Irwandi J.** and A. Nagao. New method for improving solubilization and uptake of dietary carotenoids in human hepatocellular liver carcinoma (HepG2) cells. Presented at ASEAN Food Conference, 21-23 October 2009. Bandar Seri Begawan, Brunei Darussalam (Invited Spekaer).
- **Irwandi J,** MES Mirghani. Halal authentication of leather and leather products using FTIR spectroscopy. Presented at the Mini Symposium on Halal Products Analysis and Innovation, ASIANALYSIS X, 12 Aug 2009, PWTC, Kuala Lumpur (Invited speaker)
- **Irwandi J,** MES Mirghani. Overview of alternative food ingredients. 3rd IMT-GT International Halal Symposium on Halal Science and Management. 21-22 December 2009, Pan Pacific, KLIA, Malaysia. (Invited speaker)
- **Irwandi, J.** 2009. Integration of Islamic values into Science Teaching. Presented at the International Seminar on Islamic Education. 9-12 November, 2009. Banda Aceh, Indonesia. (Invited speaker)

- **Irwandi J.** Animal Feed and Safety. Global Halal Standard Training for Brunei-Indoensia, Malaysia-Philippines East Asean Groth Area (BIMP_EAGA), 4-6 October 2010. Cagayan De Oro, The Phillipines . (Invited speaker).
- **Irwandi J.** Animal Feed and Safety. Global Halal Standard Training for Brunei-Indoensia, Malaysia-Philippines East Asean Groth Area (BIMP_EAGA), 15-16 July 2010, Potianak, Indonesia. (Invited speaker).
- **Irwandi J.** 2010. Recent Advancement in Halal Research. Ikatan Ilmuwan Indonesia International (I-4) Meeting. Kementrian Pendidikan Nasional, Jakarta, 17 December 2010. (Invited speaker).
- **Irwandi, J.** Carotenoid for Food and Pharmaceutical Applications. Food Safety and Food Security Conference, Universitas Gadjahmada, 1-4 December 2010. Yogyakarta, Indonesia. . (Invited speaker)
- **Irwandi J. 2011.** Education in Indonesia and Malaysia: A Comparison. International Education Seminar. 26-27 February 2011. Universitas Sumatera Utara, Medan, Indonesia. (Invited speaker)
- **Irwandi, J.** 2011. Fucoxanthin from Malaysian Brown Seaweeds. Seminar Rumpai Laut Kebangsaan, 28-29 April 2011, Hotel Promenade, Tawau, Sabah, Malaysia. (Invited speaker).
- **Irwandi, J.** 2011. Future Directions of Muslim Scientist. International Conference on Islamization in Modern Science and Scientification of Islamic Studies. 6-8 December 2011. Kuantan, Pahang. (Invited speaker).

Publications

Refereed and Indexed International Scientific Journals

1. MA Ahmed, HA Al-Kahtani, **I Jaswir**, H AbuTarboush, EA Ismail, 2020. Extraction and characterization of gelatin from camel skin (potential halal gelatin) and production of gelatin nanoparticles. Saudi Journal of Biological Sciences 27 (6), 1596.
2. MA Abdel-Wahhab, AA El-Nekeety, AS Hathout, AS Salman, **I. Jaswir**. 2020. Bioactive compounds from Aspergillus niger extract enhance the antioxidant activity and prevent the genotoxicity in aflatoxin B1-treated rats. Toxicon:000-000 (inpress).
3. I Septi, B Kartika, **I Jaswir**, MA Jamaludin. 2020. Underlying the Dimension of Knowledge Factors in Purchasing Halal Product Among Muslim Consumers. Malaysian Journal of Social Sciences and Humanities (MJSSH) 5 (4), 34-40.
4. U Pato, Y Yusuf, S Fitriani, Nian Jonnadi, Msri Wahyuni, **I. Jaswir**. 2020. Inhibitory activity of crude bacteriocin produced by lactic acid bacteria isolated from dadih against Listeria monocytogenes. Biodiversitas Journal of Biological Diversity 21 (4): 000-000 (In-press).

5. SFP Jemain, P Jamal, AR Raus, A Amid, **I Jaswir**. 2020. Mode Of Action Of Lactobacillus Plantarum On Antioxidant Activity Of Curcuma Caesia For Potential Application In Making Halal Anti Acne Soap And Cream. *International Journal Of Allied Health Sciences* 3 (3), 833-833.
6. ZM Babar, **I Jaswir**, AM Tareq, ASM Ali Reza, WM Azizi, M Hafidz, F Ahfter, 2020. In vivo anxiolytic and in vitro anti-inflammatory activities of water-soluble extract (WSE) of Nigella sativa (L.) seeds. *Natural Product Research*, 1-6. (In-press) .
7. **I Jaswir**, MES Mirghani, BH Almansori, F Octavianti. Halal Food Security: Forensic and Laboratory Management. *Societal Dimensions of Environmental Science: Global Case Studies of Collaboration and Transformation*. CRC Press. 117.
8. **I Jaswir**, HA Al-Kahtani, F Octavianti, W Lestari, N Yusof. 2020. Camel Gelatin Composition, Properties, Production, and Applications. *Handbook of Research on Health and Environmental Benefits of Camel Products*. IGI_Global Publisher, USA. Pp: 306-327.
9. Firdaus Fanny Putera Perdana, Muhammad Tahir Jan, Remzi Altunişik, **Irwandi Jaswir**, Betania Kartika. 2019. The role of halal certification on purchase intention towards food products from mena countries: a sem study. *Journal of Islamic Monetary Economics and Finance* 5 (1), 63-88
10. FA Hudaefi, **I Jaswir**. 2019. Halal governance in Indonesia: theory, current practices, and related issues. *Journal of Islamic Monetary Economics and Finance* 5 (1), 89-116
11. Fitri Octavianti, **Irwandi Jaswir**, Rini Akmeliawati, Adi Rahmadsyah, Azrul Hafiz Bin Abdul Aziz, Russly Abdul Rahman, Nurul Asyikeen Ab Mutalib. 2019. The Development of Rapid Method for Detection of Ethanol in Mouthwash Using E-Nose. *Contemporary Management and Science Issues in the Halal Industry*, 335-343
12. Widya Lestari, Fitri Octavianti, **Irwandi Jaswir**, Ridar Hendri. 2019. Plant-based substitutes for gelatin. *Contemporary Management and Science Issues in The Halal Industry*, 319-322
13. **Irwandi Jaswir**, Dedi Noviendri, Muhammad Taher, Farahidah Mohamed, Fitri Octavianti, Widya Lestari, Ali Ghufon Mukti, Sapta Nirwandar and Bubaker B. Hamad Almansori. 2019. Optimization and formulation of fucoxanthin-loaded microsphere (F-LM) using response surface methodology (RSM) and analysis of its fucoxanthin release profile. *Molecules* 24(5), 947
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32. Jamal, P., Akbar, I., Jaswir, I., Zuhani, Y. 2017. Quantification of total phenolic compounds in papaya fruit peel. *Pertanika Journal of Tropical Agricultural Science* 40(1), pp. 87-98
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Under Prof Irwandi's leadership, INHART has achieved remarkable success in areas related to the halal industry for the past few years. INHART'S achievement includes:

- Indexed Journal Publications: 404
- Conference Proceedings: 231
- Other Publications: 22
- Halal Scientific Books: 24
- Book Chapters: 216
- Securing Public funding for researches: RM 9.1 millions (USD 2.3 m)
- International Funds: 1.4 millions (USD 0.4 m)
- Produced 177 postgraduate (MSc and PhD)

Community Services

- Regular column writer for various mass-media articles related to Science and Technology (S&T).
- Chairman for various activities, inside and outside Campus. For example; Chairman for Islamic Enhancement and Evaluation programme 2010, Kulliyah of Engineering, IIUM.
- Consultant for various Food manufacturers.
- Actively represent IIUM in various scientific events and exhibitions
- Reviewer for various scientific articles of International reputable journals.
- Resource person for TV and radio programmes
- External examiner for postgraduate theses from local and international universities.
- Committee member and representative of Indonesia and Malaysia. Tsukuba Mosque, Japan. 2006-2008.
- Delivering Friday *khutbah* in Tsukuba Mosque, Japan, 2006 - 2008.
- Representing IIUM in Inter-varsity Staff Games (in tennis event), from 2002-2006 and 2008-2010.

Membership

- Persatuan Ahli Teknologi Pangan Indonesia (PATPI)
- American Oil Chemists' Society (AOCS)
- Canadian Institute of Food Science and Technology (CIFST)
- Malaysian Institute of Food Technology (MIFT)
- Japan Society for Biology, Biotechnology and Agrochemistry (JSBBA)