



Datin Dr Sharida Fakurazi

Professor
Department of Human Anatomy,
Faculty of Medicine and Health Sciences
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Education

PhD, Imperial College of Science, Technology and Medicine, South Kensington, London
Bachelor of Science Hons (Pharmacology) University of Dundee, Scotland
Maktab Rendah Sains MARA (MRSM) Kulim, Kedah

Areas of Interest

1. Drug Discovery and Pharmacology
2. Ergogenic substance
3. Hepatoprotective Study
4. Toxicology
5. Drug Delivery System and Cancer
6. Wound Healing in diabetic murine model

Professional Qualification/ Membership/ Affiliation

British Toxicology Society (BTS)
International Society for the Study of Xenobiotics

Society of Medicinal Plant and Natural Product Research
Electron Microscopy Society Malaysia (EMSM)
Malaysian Society of Biochemistry and Molecular Biology

Malaysian Society of Pharmacology and Physiology
Malaysia Society of Nanotechnology
NanoMite Consortium-UPM Chapter

COMMUNITY /OUTSIDE OFFICIAL DUTIES

Organisation	Office held/ Status	Years (s)
PERMATA UPM	Member	Since 2002
Koperasi UPM	Member	Since 2001
Persatuan Pegawai Akademik	Member	Since 2001
Tabung Bantuan Pengurusan Jenazah Pegawai UPM	Member	Since 2002
Member of PIBG- Sek Men Sains Tuanku Jaafar, Negeri Sembilan	Member	2011-2015

Advisor- F1 Group in School		2014
Muafakat MRSM Kuala Kubu Bharu, Selangor	Member	2015-2019
Persatuan Ibu Bapa Guru (PIBG) Sekolah Menengah Setiabudi, Gombak Selangor	Member	2017-2021
ANSARA MRSM Balik Pulau	Member	-

Appointments (Inside and Outside UPM)

Appointment	Faculty/Department/Unit	Date of service	End of Service
Head of Department	FPSK/Jabatan Anatomi Manusia/Pharmacology	1 March 2019	Recent
Visiting Professor	Fakultas Kedokteran Gigi, Universitas Brawijaya, Malang, Indonesia	2017	Recent
Visiting Professor	College of Plant Science and Technology, Huazhong Agricultural University, Hongshan, Wuhan, China	2019	2019
Head of Laboratory	Institute of Bioscience (IBS), UPM	2016	2017
Head of Laboratory	Institute of Bioscience (IBS), UPM	2014	2016
Head of Laboratory	Institute of Bioscience (IBS), UPM	2011	2014
Head of Department	FPSK/Jabatan Anatomi Manusia/Pharmacology	2006	2008
Lecturer / Associate Professor	FPSK/Jabatan Anatomi Manusia/Pharmacology	2007	Recent
Module and Package Coordinator	FPSK/Jabatan Anatomi Manusia/Pharmacology	Once of 2 years	2 years
Acting Head, Unit Pharmacology	FPSK/Jabatan Anatomi Manusia/Pharmacology	June 2006	June 2008
Lecturer (Pharmacology)	FPSK/Jabatan Anatomi Manusia/Pharmacology	May 2001	July 2005
Acting Head, Unit Pharmacology	FPSK/Jabatan Anatomi Manusia/Pharmacology	September 2004	June 2005
Visiting Lecturer (Pharmacology)	Universiti Sains Islam Malaysia (USIM)	2013 - 2015	2015
Research Assistant (PhD/ Tutor)	Division of Biomedical Sciences, Imperial College School of Sciences, Technology and Medicine	October 1997	May 2001
Tutor	FPSK/JSB/UPM	March 1997	September 1997
Technical marketing Executive	All Eights Malaysia Sdn Bhd	September 1996	February 1997

Publication (in 5 years)

1. Buskaran, Kalaivani, Hussein, Mohd Z., Moklas, Mohamad A., Masarudin, Mas J., Fakurazi, Sharida (2021) Graphene Oxide Loaded with Protocatechuic Acid and Chlorogenic Acid Dual Drug Nanodelivery System for Human Hepatocellular Carcinoma Therapeutic Application, International Journal of Molecular Sciences, 22 (11), 1422-0067
2. Buskaran, Kalaivani, Bullo, Saifullah, Hussein, Mohd Z., Masarudin, Mas J., Mohd Moklas, Mohamad A., Fakurazi, Sharida (2021), Anticancer Molecular Mechanism of Protocatechuic Acid Loaded on Folate Coated Functionalized Graphene Oxide Nanocomposite Delivery System in Human Hepatocellular Carcinoma, Materials, 14 (4), 1996-1944

3. Maarof, N. N. N. *et al.* Efficacy of Afatinib in the Treatment of Patients with Non-Small Cell Lung Cancer and Head and Neck Squamous Cell Carcinoma: A Systematic Review and Meta-Analysis. *Cancers (Basel)*. **13**, 688 (2021).
4. Ebadi, M. *et al.* Dual-Functional Iron Oxide Nanoparticles Coated with Polyvinyl Alcohol/5-Fluorouracil/Zinc-Aluminium-Layered Double Hydroxide for a Simultaneous Drug and Target Delivery System. *Polymers (Basel)*. **13**, 855 (2021).
5. Kamal, N. A. M. A., Abdulmalek, E., Fakurazi, S., Cordova, K. E. & Rahman, M. B. A. Surface peptide functionalization of zeolitic imidazolate framework-8 for autonomous homing and enhanced delivery of chemotherapeutic agent to lung tumor cells. *Dalt. Trans.* **50**, 2375–2386 (2021).
6. Buskaran, K., Hussein, M. Z., Moklas, M. A. M., Masarudin, M. J. & Fakurazi, S. Graphene Oxide Loaded with Protocatechuic Acid and Chlorogenic Acid Dual Drug Nanodelivery System for Human Hepatocellular Carcinoma Therapeutic Application. *Int. J. Mol. Sci.* **22**, 5786 (2021).
7. Hong, X., Ajat, M., Fakurazi, S., Noor, A. M. & Ismail, I. S. Anti-inflammatory evaluation of *Scurrula ferruginea* (jack) danser parasitizing on *Tecoma stans* (L.) HBK in LPS/IFN- γ -induced RAW 264.7 macrophages. *J. Ethnopharmacol.* **268**, 113647 (2021).
8. Ebadi, M. *et al.* Drug delivery system based on magnetic iron oxide nanoparticles coated with (polyvinyl alcohol-zinc/aluminium-layered double hydroxide-sorafenib). *Alexandria Eng. J.* **60**, 733–747 (2021).
9. Behan, A. A. *et al.* Meat Quality, Fatty Acid Content and NMR Metabolic Profile of Dorper Sheep Supplemented with Bypass Fats. *Foods* **10**, 1133 (2021).
10. Albalawi, F., Hussein, M. Z., Fakurazi, S. & Masarudin, M. J. Engineered nanomaterials: the challenges and opportunities for nanomedicines. *Int. J. Nanomedicine* **16**, 161 (2021).
11. Tan, J. M., Bullo, S., Fakurazi, S. & Hussein, M. Z. Characterization of Betulinic Acid-Multiwalled Carbon Nanotubes Modified with Hydrophilic Biopolymer for Improved Biocompatibility on NIH/3T3 Cell Line. *Polymers (Basel)*. **13**, 1362 (2021).
12. Zakaria, N. N., Malahubban, M., Fakurazi, S., Chuong, W. S. & Rajaei, A. H. Anti-Inflammatory Potential of Hexane Extract of Mud Lobster (*Thalassina anomala*) in Lipopolysaccharide-Stimulated RAW 264.7 Macrophages. *Trop. Life Sci. Res.* **32**, 145 (2021).
13. Ruman, U. *et al.* Synthesis and Characterization of Chitosan-Based Nanodelivery Systems to Enhance the Anticancer Effect of Sorafenib Drug in Hepatocellular Carcinoma and Colorectal Adenocarcinoma Cells. *Nanomaterials* **11**, 497 (2021).
14. Mohd-Zahid, M. H. *et al.* Gold nanoparticles conjugated with anti-CD133 monoclonal antibody and 5-fluorouracil chemotherapeutic agent as nanocarriers for cancer cell targeting. *RSC Adv.* **11**, 16131–16141 (2021).
15. Ruman, U. *et al.* Sorafenib and 5-Fluorouracil Loaded Dual Drug Nanodelivery Systems for Hepatocellular Carcinoma and Colorectal Adenocarcinoma. (2021)- preprint
16. Muhammad, S. A., Abbas, A. Y., Saidu, Y., Fakurazi, S. & Bilbis, L. S. Therapeutic efficacy of mesenchymal stromal cells and secretome in pulmonary arterial hypertension: a systematic review and meta-analysis. *Biochimie* **168**, 156–168 (2020).
17. Muhammad, S. A. *et al.* Protective effects of stem cells from human exfoliated deciduous teeth derived conditioned medium on osteoarthritic chondrocytes. *PLoS One* **15**, e0238449 (2020).
18. Maluin, F. N. *et al.* Residual analysis of chitosan-based agronofungicides as a sustainable alternative in oil palm disease management. *Sci. Rep.* **10**, 1–10 (2020).
19. Ebadi, M. *et al.* Release of a liver anticancer drug, sorafenib from its PVA/LDH-and PEG/LDH-coated iron oxide nanoparticles for drug delivery applications. *Sci. Rep.* **10**, 1–19 (2020).
20. Che Zain, M. S., Lee, S. Y., Nasir, N. M., Fakurazi, S. & Shaari, K. Metabolite Characterization and Correlations with Antioxidant and Wound Healing Properties of Oil Palm (*Elaeis guineensis* Jacq.) Leaflets via ¹H-NMR-Based Metabolomics Approach. *Molecules* **25**, 5636 (2020).
21. Ebadi, M. *et al.* Synthesis and Cytotoxicity Study of Magnetite Nanoparticles Coated with Polyethylene Glycol and Sorafenib–Zinc/Aluminium Layered Double Hydroxide. *Polymers (Basel)*. **12**, 2716 (2020).
22. Tan, J. M., Bullo, S., Fakurazi, S. & Hussein, M. Z. Preparation, characterisation and biological evaluation of biopolymer-coated multi-walled carbon nanotubes for sustained-delivery of silibinin. *Sci. Rep.* **10**, 1–15 (2020).
23. Yee Kuen, C., Galen, T., Fakurazi, S., Othman, S. S. & Masarudin, M. J. Increased Cytotoxic Efficacy of Protocatechuic Acid in A549 Human Lung Cancer Delivered via

- Hydrophobically Modified-Chitosan Nanoparticles As an Anticancer Modality. *Polymers (Basel)*. **12**, 1951 (2020).
24. Buskaran, K., Hussein, M. Z., Mohd Moklas, M. A. & Fakurazi, S. Morphological Changes and Cellular Uptake of Functionalized Graphene Oxide Loaded with Protocatechuic Acid and Folic Acid in Hepatocellular Carcinoma Cancer Cell. *Int. J. Mol. Sci.* **21**, 5874 (2020).
 25. Sulaiman, F. *et al.* Metabolite Profiles of Red and Yellow Watermelon (*Citrullus lanatus*) Cultivars Using a ¹H-NMR Metabolomics Approach. *Molecules* **25**, 3235 (2020).
 26. Maluin, F. N. *et al.* Cytoprotection, Genoprotection, and Dermal Exposure Assessment of Chitosan-Based Agronanofungicides. *Pharmaceutics* **12**, 497 (2020).
 27. Tan, W. S. *et al.* Healing Effect of Vicenin-2 (VCN-2) on Human Dermal Fibroblast (HDF) and Development VCN-2 Hydrocolloid Film Based on Alginate as Potential Wound Dressing. *Biomed Res. Int.* **2020**, (2020).
 28. Maluin, F. N. *et al.* Phytotoxicity of chitosan-based agronanofungicides in the vegetative growth of oil palm seedling. *PLoS One* **15**, e0231315 (2020).
 29. Che Zain, M. S., Lee, S. Y., Sarian, M. N., Fakurazi, S. & Shaari, K. In vitro wound healing potential of flavonoid c-glycosides from oil palm (*Elaeis guineensis* Jacq.) leaves on 3T3 fibroblast cells. *Antioxidants* **9**, 326 (2020).
 30. Maluin, F. N. *et al.* Chitosan-based agronanofungicides as a sustainable alternative in the basal stem rot disease management. *J. Agric. Food Chem.* **68**, 4305–4314 (2020).
 31. Ruman, U., Fakurazi, S., Masarudin, M. J. & Hussein, M. Z. Nanocarrier-based therapeutics and theranostics drug delivery systems for next generation of liver cancer nanodrug modalities. *Int. J. Nanomedicine* **15**, 1437 (2020).
 32. Mustafa, M. F., Fakurazi, S., Abdullah, M. A. & Maniam, S. Pathogenic mitochondria DNA mutations: current detection tools and interventions. *Genes (Basel)*. **11**, 192 (2020).
 33. Usman, M. S. *et al.* Chlorogenic acid intercalated Gadolinium–Zinc/Aluminium layered double hydroxide and gold nanohybrid for MR imaging and drug delivery. *Mater. Chem. Phys.* **240**, 122232 (2020).
 34. Hong, X., Mat Isa, N., Fakurazi, S. & Safinar Ismail, I. Phytochemical and anti-inflammatory properties of *Scurrula ferruginea* (Jack) Danser parasitising on three different host plants elucidated by NMR-based metabolomics. *Phytochem. Anal.* **31**, 15–27 (2020)
 35. Tan, W. S. *et al.* Improvement of diabetic wound healing by topical application of Vicenin-2 hydrocolloid film on Sprague Dawley rats. *BMC Complement. Altern. Med.* **19**, 1–16 (2019).
 36. Muniandy, K. *et al.* Wound healing potential of edible plants. *Pak. J. Pharm. Sci.* **32**, (2019).
 37. Nur-Nadiah, Z., Malahubban, M., Fakurazi, S., Wong, S. C. & Rajae, A. H. Length-weight and Morphometric Analysis of Mud Lobster, *Thalassina anomala* from Sarawak, Malaysia. *Pertanika J. Trop. Agric. Sci.* **42**, (2019).
 38. Shahruzaman, S. H., Mustafa, M. F., Ramli, S., Maniam, S. & Fakurazi, S. The cytotoxic properties of *Baekkea frutescens* branches extracts in eliminating breast Cancer cells. *Evidence-Based Complement. Altern. Med.* **2019**, (2019).
 39. Behan, A. A. *et al.* Effects of supplementation of rumen protected fats on rumen ecology and digestibility of nutrients in sheep. *Animals* **9**, 400 (2019).
 40. Maluin, F. N. *et al.* Preparation of chitosan–hexaconazole nanoparticles as fungicide nanodelivery system for combating *Ganoderma* disease in oil palm. *Molecules* **24**, 2498 (2019).
 41. Ebadi, M., Buskaran, K., Saifullah, B., Fakurazi, S. & Hussein, M. Z. The impact of magnesium–aluminum-layered double hydroxide-based polyvinyl alcohol coated on magnetite on the preparation of core-shell nanoparticles as a drug delivery agent. *Int. J. Mol. Sci.* **20**, 3764 (2019).
 42. Ebadi, M., Saifullah, B., Buskaran, K., Hussein, M. Z. & Fakurazi, S. Synthesis and properties of magnetic nanotheranostics coated with polyethylene glycol/5-fluorouracil/layered double hydroxide. *Int. J. Nanomedicine* **14**, 6661 (2019).
 43. Shahruzaman, S. H., Mustafa, M. F., Ramli, S., Maniam, S. & Fakurazi, S. The cytotoxic effect and glucose uptake modulation of *Baekkea frutescens* on breast cancer cells. *BMC Complement. Altern. Med.* **19**, 1–10 (2019).
 44. Maluin, F. N. *et al.* Enhanced fungicidal efficacy on *Ganoderma boninense* by simultaneous co-delivery of hexaconazole and dazomet from their chitosan nanoparticles. *RSC Adv.* **9**, 27083–27095 (2019).
 45. Kavi Rajan, R., Hussein, M. Z., Fakurazi, S., Yusoff, K. & Masarudin, M. J. Increased ROS scavenging and antioxidant efficiency of chlorogenic acid compound delivered via a chitosan nanoparticulate system for efficient In vitro visualization and accumulation in human renal adenocarcinoma cells. *Int. J. Mol. Sci.* **20**, 4667 (2019).

46. Mustafa, I., Chin, N. L., Fakurazi, S. & Palanisamy, A. Comparison of phytochemicals, antioxidant and anti-inflammatory properties of sun-, oven- and freeze-dried ginger extracts. *Foods* **8**, 456 (2019).
47. Muhammad, S. A. *et al.* Optimization of protocol for isolation of chondrocytes from human articular cartilage. *Cartilage* 1947603519876333 (2019).
48. Barahuie, F. *et al.* Corrigendum to " Graphene Oxide as a Nanocarrier for Controlled Release and Targeted Delivery of an Anticancer Active Agent, Chlorogenic Acid"[J. Mater. Sci. Eng. C 74 (2017) 177-185]. *Mater. Sci. Eng. C. Mater. Biol. Appl.* **75**, 1525 (2017).
49. Abdul Shukoor, M. S., Baharuldin, M. T. H. Bin, Mat Jais, A. M., Mohamad Moklas, M. A. & Fakurazi, S. Antidepressant-like effect of lipid extract of channa striatus in chronic unpredictable mild stress model of depression in rats. *Evidence-Based Complement. Altern. Med.* **2016**, (2016).
50. Abd Rahman, N. *et al.* Induction of apoptosis and G 2/M arrest by ampelopsin E from Dryobalanops towards triple negative breast cancer cells, MDA-MB-231. *BMC Complement. Altern. Med.* **16**, 1–9 (2016).

a) International Proceedings

No	Title of paper, proceedings on Seminar/Conferences	Year
1.	Sharida Fakurazi, Moringa oleifera and Regenerative Activities 1st International Conference Brawijaya Dentistry 22-23 November 2019	2019
2.	Sharida Fakurazi, Antiinflammatory Activity of Moringa oleifera The 2nd Innovative Science and Technology International Summit Forum for Ethnomedicine (Optical Valley Forum), Wuhan China 1-3 November 2019	2019
3.	Sharida Fakurazi, Moringa oleifera for Food, Nutritional and Health Security The 2019, The Belt and Road International Symposium on the industrial Development of Traditional Medicine, Huazhong Agricultural University, 5-7 November, Wuhan China	2019
4.	Sharida Fakurazi, Nanomedicine in Biomedical Sciences, 3rd Annual Scientific Meeting of Indonesian Consortium for Biomedical Sciences, Malang, Indonesia, 21-23 November 2018	2018
5.	Sharida Fakurazi, Mohd Zobir Hussein, Mas Jafri Masarudin and Shafinaz Abdul Ghani. Drug Nanodelivery Application Enhances Bioavailability of Polyphenols 1 st International Seminar on Pharmaceutical (1 st ISoP2018). 27-28 Sept, 2018 in Manado, Indonesia.	2018
6.	Sharida Fakurazi, My Research Journey with the Drumstick Tree I2nd International Anatomy and Biomedical Science Conference, Universiti Putra Malaysia – on 1st August 2017	2017
7.	Sharida Fakurazi, Aimi Syarina Pauzi, Palanisamy Arulselvan, Wound Healing Potential of Moringa Oleifera Bioactive Fraction In Diabetic Animal Model. 15TH IUBMB 24TH FAOBMB TSBMB CONFERENCE, Academia Sinica, Taipei.	2014
8.	Sharida Fakurazi, Palanisamy Arulselvan, Aimi Syarina Pauzi Karthivashan Govindarajan, Faridah Abas, Cheah Pike See Topical treatment of blue green algae extract promote healing of diabetic. International Conference of Traditional and Complementary Medicine on Health 2013 – National Research Institute of Chinese Medicine, Taipei – 24-26 May 2013	2013
9.	Palanisamy Arulselvan, Syazana Akmal Sharifuddin, Karthivashan Govindarajan Masoumeh Tangestani Fard, Sharida Fakurazi, Curative potential of Moringa oleifera phytoextracts against acetaminophen induced toxicity in rats. International Conference of Traditional and Complementary Medicine on Health 2013 – National Research Institute of Chinese Medicine – 24-26 May 2013 International Congress of Molecular Medicine, Taipei.	2012
10.	Sharida Fakurazi, Palanisamy Arulselvan, Mohd Zobir Hussein, The safety issues in nanotechnology advancement in drug delivery system, pg 7.	2011

	International Conference on Structural and Physical Properties of Solids (SPPS 2013) 18-20 Nov 2013 ISBN: 978-93-81212-48-6; Dhanbad, India.	
11.	Palanisamy Arulselvan Sharida Fakurazi, , Mohd Zobir Hussein Impact of functionalized nanoparticles on inflammation- biological prospective pg 18.	2010
	International Conference on Structural and Physical Properties of Solids (SPPS 2013) 18-20 Nov 2013 ISBN: 978-93-81212-48-6.	
12.	Hussein, Mohd. Zobir and Barahuie, Farahnaz and Zainal, Zulkarnain and Arulselvan, Palanisamy and Sharida Fakurazi, (2013) In vitro controlled release of an anticancer drug, chlorogenic acid using magnesium/aluminium layered double hydroxide as nanomatrix.	2009
	In: 2013 International Conference on Engineering and Applied Science (ICEAS 2013) , 7 - 9 Nov 2013, Osaka, Japan.	
13.	Nur Aimi Syarina Pauzi, Sharida Fakurazi, Arulselvan Palanisamy, Topical treatment with blue green algae aqueous extract promote healing of diabetic wound.	2009
	In: 2012 Malaysia Thailand Graduate Forum in Life Sciences. Food Science and Agriculture , 12-14 Dec 2012, Bangkok, Thailand.	
14.	Julia Tan Meihua, Mohd Zobir Hussein Sharida Fakurazi Synthesis of nanodelivery system using functionalised carbon nanotubes.	2009
	International Conference on Nanotechnology 2012 (ICONT2012) Kuantan Malaysia.	
15.	SFakurazi, , Taufik Hidayat, M, M Aris M, I Hairuszah, Shamima AR, Mitragynine Prevents the development of tolerance following morphine treatment; In Vivo 25; 482, No 3427-30 June 2011.	2009
	4th International Congress of Molecular Medicine, Yeditepe University, Istanbul, Turkey.	
16.	SFakurazi, I Hairuszah, U Nanthini, Taufik Hidayat,, M Aris M, A Zulkhairi Efficient amelioration of acetaminophen induced hepatotoxicity by <i>Moringa oleifera</i> Lam.	2008
	In The 1st International Symposium on Medicinal Plants, their cultivation and aspects of uses, Petra Jordon.	
17.	M Aris M, Adib Ridzuan NR, Taufik Hidayat, Nasir FI, Shamima AR, A Zulkhairi, Sharida Fakurazi, Toxicity study of Mitragyna speciosa extracts using brine syrimp screening test.	2008
	In The 1st International Symposium on Medicinal Plants, their cultivation and aspects of uses, Petra Jordon.	
18.	Moklas MAM, Adib Ridzuan NR, Taufik Hidayat, M, Nasir FI, Abdul Rahman S, Zulkhairi A, Fakurazi S Toxicity Study of Mitragyna Speciosa extracts using brine shrimp screening test.	2008
	The 1st international symposium on medicinal plant, their cultivation and aspect of uses, Petra Marriot Hotel, Petra Jordan 15-16. OCT 2008.	
19.	S Fakurazi, I Hairuszah, U Nanthini. HM Taufik, M Aris, A Zulkhairi Efficient Amelioration of acetaminophen induced hepatotoxicity by <i>Moringa oleifera</i> .	2006
	The 1st international symposium on medicinal plant, their cultivation and aspect of uses, Petra Marriot Hotel, Petra Jordan 15-16. OCT 2008	

20. Zulkhairi A, Kamilah AKK, Azrina A Norhaizan MI, Maznah I, Hasnah B, Sharida F, Aris MM, Taufik HM The effect of Malaysian germinated brown rice in hypercholesterolemia. 2005
The 1st international symposium on medicinal plant, their cultivation and aspect of uses, Petra Marriot Hotel, Petra Jordan 15-16. OCT 2008
21. F Sharida, I Hairuszah, Mohd Lip J, M Mohanambal, NGL Uma, MHB Taufik, A Zulkhairi, G Tahirah, MS Rosmawati (2007) In vivo study: Reduction in fatty liver formation following zerumbone pre treatment. 2005
Biology, Chemistry, Pharmacology and Clinical Studies of Asian Plants, Surabaya, Indonesia.
22. Sharida F, Mohanambal M, Uma NGL, Taufik MHB, Zulkhairi A, Hairuszah I (2007) Morphological alterations of mitochondria following diclofenac administration to rats. 2005
19th FAOBMB Seoul Conference, Science and Technology for the integration of life.
23. F Sharida, I Hairuszah, M Mohanambal, NGL Uma, MHB Taufik, A Zulkhairi (2007) Compare and contrast the effect of diclofenac and ibuprofen on liver mitochondria. **6th World Congress on the Alternatives and Animal Use in Life Sciences, Tokyo, Japan.** 2005
24. Uma NLG, Fakurazi S, Hairuszah I, Mohanambal M, Taufik MHB, Zulkhairi A, Sukardi S, Ganabadi S, Bahaman AS (2007) Hepatoprotective action of Moringa oleifera Lam. **55th International Congress and Annual Meeting of the Society for Medicinal Plant Research. Graz, Austria.** 2005
25. Sharida F, Hairuszah I, Mohd Lip J, Mohanambal M, Uma NGL, Taufik MHB, Zulkhairi A, Tahirah G, Rosmawati MS (2007) Hepatoprotection Of Zerumbone Against **Ethanol Induced liver Injury; proceedings For Malaysia, Indonesia And Brunei Darussalam Medical Science Conference 2007.** 2004
26. Farah Idayu N., Taufik Hidayat M., Siek Ing Ing, Zulkhairi A., Hasnah B., Sharida F., Che Norma M.T., Moklas M.A.M. and Khairul Kamilah A.K. The effect of *Tinospora crispa* aqueous extract intake on repetitive stress rats. 2004
3rd Global Summit on Medicinal Plants and Aromatic Plants (GOSMAP-3), 21-24 Nov 2007, Chiang Mai, Thailand. pg: 198.
27. Taufik Hidayat M., Farah Idayu N., Hidatul A.A.R., Sabariah N.A.W., Abd Manan M.J, Amin I., Abbey M., Zulkhairi A., Hasnah B., Sharida F., Jabit M.L. and Khairul Kamilah A.K Therapeutic role of *Theobroma cacao* and *Mitragyna speciosa* in depressive disorders model on mice. 2004
3rd Global Summit on Medicinal Plants and Aromatic Plants (GOSMAP-3), 21-24 Nov 2007, Chiang Mai, Thailand. pg: 201
28. S.Fakurazi, O. Fauziah, R. Asmah (2004) Hepar P pre-treatment is not hepatoprotective against paracetamol induced injury. 2004
Yemeni Scientific Conference 2004.
29. S. Fakurazi, R. Asmah, M.A. Abdah, AM Noorashikin (2003) High Antioxidant Activities Despite the Lack of Antiproliferative Action of *Coriandrum sativum*, *Apium graveolans* and *Allium fistulosum*. 2003
Proceedings of The International Symposium on Free Radicals and Health: Molecular Interventions and Protection of Lifesyle-Related Diseases, Sakata, Japan.

30.	S.Fakurazi, S. Sukardi, J. Caldwell, O. Corcoran and R.D Goldin (2002) Comparison of benoxaprofen and ibuprofen adducts in mice and rats.	2002
	Proceedings of the 2nd International Symposium on Antioxidants in Nutrition & Therapy in Bali, Indonesia	
31.	S.Fakurazi, J. Caldwell, O. Corcoran and R.D Goldin (2002) Possible mitochondria damage after benoxaprofen treatment in male Sprague-Dawley rats.	2002
	Proceedings of the 2nd International Symposium on Antioxidants in Nutrition & Therapy in Bali, Indonesia	
32.	S. Sukardi, N. A. Kamil, S. Fakurazi, and H. Yaakub (2002) Sperm quality of rabbits fed different dosages of palm oil vitamin E.	2002
	Proceedings of the 2nd International Symposium on Antioxidants in Nutrition & Therapy in Bali, Indonesia.	

National Proceedings

No	Title of paper, proceedings on Seminar/Conferences	Year
1.	<u>Sharida Fakurazi</u> and Mohd Zobir Hussein Drug Nanodelivery System in Resolving Poor Bioavailability of Polyphenols Malaysia Society of Pharmacology and Physiology, Putrajaya Hotel, Bandar Baru Bangi	2018
2.	Suleiman Alhaji Muhammad, Norshariza Nordin, Paisal Hussin, Muhammad Zulfadli Mehat, Nor Hayaty Abu Kasim and Sharida Fakurazi, Characterisation and effect of secretome of stem cells from human exfoliated deciduous teeth on the proliferation of chondrocytes Stem Cells and Cancer Symposium 2018 in Universiti Malaya – 17-18 October 2018	2018
3.	Sharida Fakurazi, Development of Nanomedicine in Preclinical Cancer Research to Deliver on a Promise Putra Cancer Research Symposium –Institute of Bioscience, UPM on 5 Sept 2017	2017
4.	Hasfar Amynurliyana AbdulGhofar, Norshariza Nordin, Sharida Fakurazi, Harnessing Secretomes From Rat Amniotic Fluid Stem Cells To Accelerate Wound Healing In Vitro. 6th MTERMS 2016 and 2nd Malaysian Stem Cell Meeting	2016
5.	Hasfar Amynurliyana AbdulGhofar, Norshariza Nordin, Sharida Fakurazi, Conditioned medium from rat amniotic fluid stem cells accelerates wound healing, an in vitro study in diabetic human dermal fibroblast Malaysia Society of Pharmacology and Physiology 2016	2016
6.	Sharida Fakurazi (2015) Antioxidant, Antimicrobial Activities Of Fraction From Moringa Oleifera Enhances Healing Of Wound In Hyperglycemic Animal Model. Laboratory of Vaccine and Immunotherapeutics, Institute of Bioscience, Universiti Putra Malaysia, Faculty of Medicine and Health Science, Pharmacology Unit, Universiti Putra Malaysia, Selangor, Malaysia	2015
7.	Sharida Fakurazi (2014) Nanomedicine in Drug Delivery System; the promises and challenges. Putra Colloquium in Nanomedicine 2014 on the 08/04/2014 - Oral presentation	2014
8.	Saifullah Bullo, Mohd Zobir Hussein, Palanisamy Arulselvan, Sharida Fakurazi (2014) Drug delivery application of graphene oxide using para amino salicylic acid	2014

	as model drug In Workshop on Advance Materials and Nanotechnology (WAMN 2014), UPM.	
9.	Aminu Umar Kura, Sharida Fakurazi, Mohd Zobir Hussein, nor Suzariana Samuri, Julia Tanmeihua, (2014) Toxicity assessment of layered double hydroxide, iron oxide, and single wall carbon nanomaterials intercalated with levodopa; an in vitro model. In Workshop on Advance Materials and Nanotechnology (WAMN 2014), UPM.	2014
10.	Farah Barahuie, MZ Hussein, Shafinaz Abd Ghani, Sharida Fakurazi, Zulkarnain Zainal (2014) Synthesis of protocatechuic acid zinc /aluminium layered double hydroxide nanocomposite as an anticancer nanodelivery system. In Workshop on Advance Materials and Nanotechnology (WAMN 2014), UPM	2014
11.	Shafinaz Abd Ghani, Farah Barahuie, MZ Hussein, Palanisamy Arulselvan, Sharida Fakurazi (2014) in vitro evaluation of chlorogenic acid layered double hydroxide as anticancer agent. In Workshop on Advance Materials and Nanotechnology (WAMN 2014), UPM	2014
12.	Farah Barahuie, MZ Hussein, Shafinaz Abd Ghani, Sharida Fakurazi, Zulkarnain Zainal (2014) Protocatechuic acid zinc aluminium layered double hydroxide nanocomposite as an anticancer nanodelivery system In Scientific Cancer Research Poster Competition in conjunction of Cancer Awareness Carnival UPM	2014
13.	Dena Dorniani, Aminu Umar Kura, Sharida Fakurazi, Mohd Zobir Hussein (2014) Cytotoxic profile of a nanodrug delivery based on 6-Mercaptopurine coated magnetite-PEG nanoparticles towards leukemia (WEHI-3B) cell lines In Scientific Cancer Research Poster Competition in conjunction of Cancer Awareness Carnival UPM	2014
14.	Nur Aimi Syarina Pauzi, Sharida Fakurazi, Palanisamy Arulselvan, karthivashan Govindarajan, Faridah abas, Fatimah Yusof, Zalinah Ahmad, Cheah Pike See (2013) Topical Treatment Of Blue Green Algae Aqueous Extract Promote Healing Of Diabetic Wound (2013)-Oral presentation In 38th Annual Conference of Malaysian Society for Biochemistry and Molecular Biology, Putrajaya Marriot Hotel and Spa	2013
15.	Sharida Fakurazi (2013) Nanotechnology Revolution in Drug Delivery System SPECIAL FACULTY TALK 2013 USIM on 12/06/2013 - Oral presentation	2013
16.	Sharida Fakurazi (2012) Bioactive Fractions Isolated from a Plant to Improve Wound Healing in a Hyperglycemic Animal Model, 4th Malaysian Tissue Engineering and Regenerative Medicine (MTERMS) Scientific Meeting, Langkawi, Malaysia on 04/06/2012	2012
17.	Sharida Fakurazi Hairuszah Ithnin Mohamad Taufik Hidayat Bin Baharuldin Syazana A.S Moringa Oleifera Lam. Ethanolic Fraction Ameliorate Liver Damage Via Inhibition of Oxidative Stress 25th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology on 26/05/2011	2011
18.	Nurul Akmaryanti A, Taufik Hidayat M, Akim A, Moklas MAM, Nor Syazana M, Noor Azuin S, Zulkahiri A, Sharida F Antidepressant like effect of Mitragyna speciosa Chloroform methanolic extract in mice model of depression. In 25th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology on 26/05/2011	2011

19. Moklas MAM, Zulkhairi A, Mohd Taufik Hidayat B, Hafizah AH, Zulfadli M, Sharida F, Fatin Nadzirah Z, Che Norma MT, Abdah MA, CB1 mediated effect of cognitive impairment but not BDNF levels due to delta 9-THC exposure on rats 2011
25th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology on 26/05/2011
20. Taufik Hidayat M, Hidatul AAR, Abd Manan MJ, Amin I, Abbey M, Sabariah NAW, Moklas MAM, Sharida F, Zulkhairi A, Abdah MA Antidepressant like effect of Theobroma cacao in depressive disorder model on mice 2011
25th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology on 26/05/2011
21. Shamima AR, Fakurazi S, Taufik Hidayat M, Moklas MAM, Hairuszah I Antinociceptive activity of mitragynine and its effect when combined with morphine in mice 2010
In 24th Scientific meeting of the Malaysian Society of Pharmacology and Physiology on 2-3 June 2010, SACC Convention Centre Shah Alam
22. Fakurazi S, Syazana AS Antioxidant capacity and hepatoprotective activity of Moringa oleifera Lam extract and flowers 2010
In 24th Scientific meeting of the Malaysian Society of Pharmacology and Physiology on 2-3 June 2010, SACC Convention Centre Shah Alam
23. Mohamad Taufik Hidayat Bin Baharuldin Abdah Md. Akim, Zulkhairi Amom, Sharida Fakurazi HP Teo, B Hasnah, A Sarina Effect of Tinospora crispa Aqueous Extract on Liver Enzyme in rats Fed with Cholesterol Diet. 2007
9th Symposium of The Malaysian Society of Applied Biology The Malaysian Society of Applied Biology and Universiti Sains Malaysia Pulau Pinang on 31/05/2007
24. A Dessy, O Fauziah, R Asmah, F Sharida, MA Abdah, R Nurulaini, M Nor Ashikeen (2005) Antioxidant minerals and cytotoxic property of neem (Azadiracta indica A.juss) extract on breast cancer cell lines; 2005
Proceedings of the Seminar Tumbuhan Ubatan dan Beraroma 2004 Current Trends and Perspectives in FRIM, Kuala Lumpur.289-299
25. S. Fakurazi, O Fauziah, A Ismail, R Shair, GL Uma, MY Razi (2005) Development of a simple rat model of acute ethanol induced hepatotoxicity- 2005
Pameran Rekacipta dan Penyelidikan, Fakulti Perubatan dan Sains Kesihatan, UPM, 2005
26. M Moorthy, S. Fakurazi, O. Fauziah (2005) Analysis of morphological perturbation following diclofenac and ibuprofen. 2005
Pameran Rekacipta dan Penyelidikan, Fakulti Perubatan dan Sains Kesihatan, UPM, 2005
27. S Fakurazi, O. Fauziah , I. Yahya and FS Abdullah (2005) Liver Histological Analysis Following Hepar P™ Pretreatment Prior to Challenge with Paracetamol Administration. 2004
Proceedings of the Seminar Tumbuhan Ubatan dan Beraroma 2004; Current Trends and Perspectives in FRIM, Kuala Lumpur, 162-167
28. Yahya, S. Fakurazi and O. Fauziah (2005) The effect of pretreatment of Hepar P™ on the ultrastructural features of liver mitochondria in rats administered with ibuprofen. 2004
Proceedings of the Seminar Tumbuhan Ubatan dan Beraroma 2004 Current Trends and Perspectives in FRIM, Kuala Lumpur. 71-78

29. M. Nihayah, F. Sharida, AWP Shareen Elena and O. Fauziah (2004) Spermatogenesis in the severe oligozoospermia infertile men as revealed by TEM. 2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur
30. MN Monzai, AL Mazlyzam, F Sharida, R Asmah, BS Aminuddin, BHI Ruszymah, O Fauziah (2004) Morphological changes of cytoskeletal proteins in monolayer cells of tissue engineered skin. 2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur
31. S. Fakurazi, O Fauziah, R Asmah, Izatulshima Y (2004) Mitochondria ultrastructure changes after Hepar P treatment. 2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur
32. A Dessy, E Zolkapli, MA abdah, AJ Azilah, F Sharida, R Asmah, O Fauziah (2004) Ethanolic extract of *Azadiracta indica* (neem) induced apoptosis in MCF-7 breast cancer cell lines. 2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur
33. A Zulkhairi, Z Zaiton, M Jamaludin, A Zanariyah, B Hasnah, F Sharida, O Fauziah (2004) Histological observation of aortic fatty streak in rabbit induced with cholesterol. 2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur
34. S Fakurazi, O Fauziah, M Moorthy, Z Zenaida, Syareen EAWP (2004) Ibuprofen induced liver morphological changes after acute dosing. 2004
Malaysian Science Technology Congress (MSTC 2004) in Kuala Lumpur
35. S.Fakurazi, J. Caldwell, O. Corcoran and R.D Goldin (2003). Benoxaprofen Hepatotoxicity: The Aftermath Revealed. 2003
Proceedings of 12th Scientific Conference and 13th Annual General Meeting of the Electron Microscopy Society Malaysia, Langkawi, Kedah
36. O. Fauziah, S. Fakurazi, R. Asmah, S. Ajantha, P. Krishnaveni, TYM Tengku Shahrul, (2003) *Azadiracta indica* induces apoptosis in MCF-7 breast Cancer Cells. 2003
Proceedings of 12th Scientific Conference and 13th Annual General Meeting of the Electron Microscopy Society Malaysia, Langkawi, Kedah
37. S.Fakurazi, J. Caldwell and R.D Goldin (2003). Ibufenac induced greater protein adduct expression than ibuprofen in the liver of rats. 2003
Proceedings of the 28th Annual Conference of The Malaysian Society for Biochemistry and Molecular Biology at Putrajaya, Kuala Lumpur
38. S.Fakurazi, J. Caldwell, O. Corcoran, B. Beckwith-Hall and R.D Goldin (2003). The Excretion of Taurine and Creatine from Male Sprague Dawley Rats treated with Benoxaprofen. 2003
Proceedings Conference in Conjunction with IPTA R & D Exposition 2003 at PWTC Kuala Lumpur.287-292
39. S.Fakurazi, O. Fauziah, HL Nordin, S. Sukardi, and SK Ramjaun (2003) Multiple doses of Zingiber zerumbet administration of Male Sprague Dawley rat livers. 2003
Proceedings Conference in Conjunction with IPTA R & D Exposition 2003 at PWTC Kuala Lumpur.283-286

40. O. Fauziah, S. Yogespriya, R. Asmah, J. Suherman, P. Hanachi, F. Sharida, MA Nooraini and AJ Azilah (2003) Microsatelliting of Antioxidant Elements During Hepatocarcinogenesis Treated with *Strobilanthes crispus*. 2003
Proceedings Pameran Rekacipta dan Penyelidikan peringkat universiti 2003
41. S.Fakurazi, O. Fauziah, HL Nordin, S. Sukardi, and SK Ramjaun (2003) The effect of Zingiber zerumbet on Liver of Male Sprague-Dawley rats. 2003
Proceedings Pameran Rekacipta dan Penyelidikan peringkat Fakulti Perubatan dan Sains Kesihatan
42. S.Fakurazi, O. Fauziah, HL Nordin, S. Sukardi, and SK Ramjaun (2003) The effect of multiple doses of Zingiber zerumbet on Liver of Male Sprague-Dawley rats 2003
Proceedings Pameran Rekacipta dan Penyelidikan peringkat universiti 2003
43. G. Shanthi, H. Yaakub, S. Sukardi, F. Sharida, S. Rajeswary, (2003) Protein gene Expression Product 9.5 Immunoreactivity in the Ovary at Different Stages of Oestrous Cycle in rats. 2003
Proceedings of The Seminar Updates on Microscopy and Microanalysis, Universiti Putra Malaysia
44. M.F.A.Bakar, R. Asmah, H.T. Arnida, H. Normah, O. Fauziah and S. Fakurazi (2003) Antioxidant activity and total phenolic content in Pecah Beling (*Strobilanthes crispus*) Leaf and Tea; Development of nutraceutical herbal tea. 2003
Proceedings of the 5th International Conference on Traditional and Complementary Medicine (INTRACOM 2003)
45. S.Fakurazi, J. Caldwell, O. Corcoran and R.D Goldin (2002) Taurine and creatine excretion following benoxaprofen administration in male Sprague-Dawley rats. 2002
Proceedings Pameran Rekacipta dan Penyelidikan peringkat Fakulti Perubatan dan Sains Kesihatan, 2002
46. S.Fakurazi, J. Caldwell and R.D Goldin (2002) Benoxaprofen forms adducts in the bile canalicular membrane in mice, but not in rats. 2002
Proceedings of the 5th Scientific congress Federation of Asian & Oceanian Physiological Societies (FAOPS)
47. S.Sukardi, S.Fakurazi, A.H. Loy (2002) Anti fertility effects of *Phyllanthus niruri* on female mice. 2002
Proceedings of the 4th International Traditional/Complementary Medicine Conference and Exhibition (INTRACOM 2002) in Kuala Lumpur
48. S.Fakurazi, S. Sukardi, J. Caldwell, O.Corcoran and R.D Goldin (2002) Possible mitochondria damage after ibufenac treatment. 2002
Proceedings of Malaysian Science and Technology Congress (MSTC 2002) in Kuching, Sarawak
49. S.Fakurazi, J. Caldwell and R.D Goldin (2002) Investigation on the evidence of hepatocellular damage following benoxaprofen treatment. 2002
Proceedings of Seminar Update on Microscopy and Microanalysis, 111 in Universiti Putra Malaysia
Chapter in Books

1.Poorani Krishnan, Narayanan Kannan, Ahmad Zaharin Aris, Palanisamy Arulselvan, **Sharida Fakurazi**. Possible application of Bio-Analytical assays in the biological impact assessment of persistent organic pollutants (POPs) in mangrove sediments in South East Asia with particular reference to Malaysia. In: Persistent Organic

Chemicals in the Environment: Status and Trends in the Pacific Basin Countries II Temporal Trends. American Chemical Society; 2016: 203-22. ISBN13: 9780841231993

2. Palanisamy Arulselvan, Arthanari Umamaheswari, **Sharida Fakurazi**. Therapeutic approaches for diabetes with natural antioxidants. In: Medicinal Plants as Antioxidant Agents: Understanding Their Mechanism of Action and Therapeutic Efficacy. Research Signpost; 2012: 237-66. ISBN: 978-81-308-0509-2.

3. **Sharida Fakurazi**, Palanisamy Arulselvan, Mohd Zobir Hussein, The Safety Issues in Nanotechnology Advancement in Drug Delivery System, International Conference on Structural and Physical Properties of Solids (SPPS 2013); Focal Theme: Smart Materials at nano and micro scale, ISBN 978-93-81212-48-6

4. Palanisamy Arulselvan, **Sharida Fakurazi**, Mohd Zobir Hussein, Impact of functionalised nanoparticles on inflammation – Biological Perspective. International Conference on Structural and Physical Properties of Solids (SPPS 2013); Focal Theme: Smart Materials at nano and micro scale, ISBN 978-93-81212-48-6

5. Sharida Fakurazi, Hasfar Amy Nurliyana A Ghofar, Norshariza Nordin, Suleiman Al Haji Muhammad. Harnessing Stem Cell Secretome Towards Cell Free Therapeutic Strategies –in Stem Cells: From Myth to Reality and Evolving.

6. Sharida Fakurazi, Mas Jafri Masarudin and Mohd Zobir Hussein. Safety Assessment and Nanotoxicology of Nanomaterials in Drug Delivery System – chapter in preparation –submitted for a chapter in Drug Delivery, Nanomedicine and Tissue Engineering: Guide to Strengthen Healthcare - to Apple Academic Press, Taylor and Francis Group

Research Grants

Biocompatible Metal Organic Frameworks (MOFs) as Potential Pulmonary Nano-carriers for Targeted Therapeutic Against Non Small Cell Lung Cancer (NSCLC)

MOHD BASYARUDDIN BIN ABDUL RAHMAN

5540441

		RM	
Development of interactive computer animated application as a teaching and learning tool in pharmacology	GIPPS	20, 000	2013
Determination of the role of CYP450. Inflammation and oxidative stress in the hepatoprotective action of plant natural source (02-01-04-SF1144)	E-Science	208,000	2012
Role of magnesium alumunium layered double hydroxide levodopa, a synthesized nanoparticles in neuronal PC12 cells (GP-IPS/2013/9399845)	GP/IPS	15,000	2013
Assessment of hepatoprotective activity of isolated bioactive fractions from hydroethanolic gradient extract of Moringa oleifera Lam leaves in human liver cells (GP/IPS/2013/9397300)	GP/IPS	15,000	2013
Systemic toxicity analysis of nanodelivery drug system	MOSTI	90,000	2012
Effect of topical bioactive compound on incision wound healing in diabetic rats	RUGS	15,000	2011
Enhancing antioxidant activities of poultry meat and eggs through dietary supplement with Moringa oleifera leaf and flowers (05-01-04-SF1148)	SCIENCEFUND R&D Pertanian	102,600	2011
Hepatoprotective effect of Moringa oleifera Lam. Investigation on the mechanism of action	MOHE	150,000	2009
A study on opioid and cannabinoid receptor in regulating antinociceptive activities following morphine and Mitragynine combination, administered to rats in vivo	RUGS	100,000	2007

Investigation on the expression of opioid and cannabinoid receptor proteins following combination treatment of mitragynine and morphine	FRGS	100,000	2006
Mitochondria Ultrastructural studies following diclofenac and ibuprofen treatment	Malaysia Toray Science Foundation (MTSF)	30,000	2004
Liver ultrastructural study after diclofenac and ibuprofen treatment	Ministry of Education (MoE)	100,000	2004
The anti-diabetic property of <i>Strobilanthes crispus</i>	Universiti Putra Malaysia Ministry of Science, Technology and Innovation (MOSTI)	10,000	2003
The effect of zerumbone treatment against hepatotoxicity following ethanol administration		117,500	2003
Generation, Characterisation and Differentiation of Skin Derived Mesenchymal and Full Term Amniotic fluid Stem Cells with a novel potential for restoration of wound in diabetes model	RUGS	80000	2012-2014
Isolation and optimisation of human articular chondrocytes from biological was of osteoarthritic patient after total knee arthroplasty	GP IPS	24894	2017-2018
Cytotoxicity and internalisation of protocatechuic acid loaded graphene oxide in human hepatocellular cell lines	GP-IPS	20000	2016-2017
Development of Nanodelivery System for Anticancer potential of functional nanomaterials against experimental cancer model: in vitro and in vivo approaches (GP-IPB/2013/9425802) (intergrated 3 subprojects)	GP/IPB	470,000	2014-2016
Evaluation of Toxicological Significance in triazole fungicide nanodelivery system compared to its respective drug alone	Geran Consortium Nanomite	160,000	2015-2020
Cytotoxicity and internalisation of protocatechuic acid loaded graphene oxide in human hepatocellular cell lines (HepG2)	GP-IPS	20,000	Dec 2016-Dec 2017
Toxicological analysis of functionalised surface modified graphene oxide conjugated with biopolymers for efficient nano drug delivery system (FRGS/1/2015/SG06/UPM/02/04)	FRGS/ MOHE	78,000	2015-2017
Therapeutic potential of dental pulp stem cell conditioned medium in osteoarthritic chondrocytes	Geran Putra Berimpak	150000	2018-2020
Co-Researchers			
Delineating the interplay between mitochondrial genome mutations and autophagy of breast cancer	FRGS (Dr Sandra Maniam)	149000	2015-2018
04-01-15-1682FR Design and Synthesis of Nanodelivery Systems for Antituberculosis Drugs with controlled release property	FRGS (Prof Zobir Hussein)	111000	2013-2015
02-02-13-1386FR Development of antherosclerotic model induced with ovariectomy and 2% cholesterol diet	RUGS (Dr Siti Khadijah Adam)	30000	2012-2014
(04-02-12-1783RU) Evaluation of anti-anxiety effect of <i>Channa striatus</i> in animal model of anxiety	RUGS (Dr Mohammad Taufik Hidayat Baharuldin)	178000	2012-2014
(04-02-12-2091RU) Nanodelivery Systems for enhancement of bioavailability and efficacy of drugs	NND, MOSTI (Prof Zobir Hussein)	135000	2012-2013
(NND/NA(1)/TD11-010)			

Impairment of cell metabolism by <i>Baeckea Frutescens</i> for elimination of cancer cells (GP-IPM/2014/9445100)	GP-IPM (Dr Sandra Maniam)	50000	2015-2017
Investigation over the roles of omega-3 fatty acid in induced post-partum model of depression (04-04-11-1482 RU)	RUGS 4 (Dr Mohammad Taufik Hidayat Baharuldin)	32000	2011-2013
Novel invasive drug delivery of factor VIII for haemophilia-Adams patch (04-01-15-1680FR)	FRGS (Dr Eusni Rahayu Mohd Tohit)	120000	2015-2017
Phylogenetics of the mud lobsters and potential of their extract as a natural remedy for asthma (07-01-15-1760FR)	FRGS (Dr Amy Rahimah Rahae)	88200	2015-2018
Synthesis of new drugs with controlled release property (ERGS/1/11/STG/UPM/01/18)	ERGS (Prof Mohd Zobir Hussein)	115000	2011-2014
Study of novel chitosan based nanoimmunosensing probe formed by layer by layer assembly for dual application sites of cancer cells and controlled release drugs (02-02013-1339FR)	FRGS (Prof Nor Azah Yusof)	100000	2013-2015
The mechanism of formation of hydroxyapatite/montmorillonite nanocomposite for bone tissue engineering application	FRGS (Prof Mohd Zobir Hussein)	65000	2019-2020
Development of topical formulation from <i>Moringa oleifera</i> as a therapeutic alternative to enhance diabetic wound healing	Geran Putra Berimpak (Dr Palanisamy Arulselvan)	118200	2015-2017
Design and Synthesis of fungicide nanodelivery systems for controlling Ganoderma disease in oil palm	Geran Konsortium Nanomite	1,000,000	2015-2020

Awards/Recognitions

Anugerah Perkhidmatan Cemerlang from UPM 2005-2020
 Anugerah Penyelidik Cemerlang FPSK
 2015 Winner of NorFeed International Award
 Visiting Professor in Universitas Brawijaya, Malang Indonesia
 Visiting Professor in Huazhong Agricultural University
 Invited speakers for various national and international conferences
 External examiners for PhD, MSc in various local and international universities
 Local and International evaluators of research grants and exhibitions
 Referees for various local and international students – Undergraduate and Postgraduate
 External Examiner for Professional 1 MBBS 2012-2013
 International Medical School, Management And Science University, Shah Alam Campus
 Asia Metropolitan University Bandar Seri Alam, Masai Johor
 International Medical University, Bungalow Campus
 Universiti Sains Islam Malaysia

Professional Services/Consultations

Appointment	Faculty/Department/Unit	Date of service	End of Service
Visiting Professor	Visiting Professor 3 in 1 Programme, Faculty of Dentistry, University of Brawijaya, Indonesia	2017	Recent
Visiting Professor	Lab of Drug Discovery and Molecular Engineering, College of Plant Science	2019	2019

Invited Lecturer	and Technology, Huazhong Agricultural University, Hongshan, Wuhan, China Persatuan Kejuruteraan Elektronik Perubatan Malaysia (MEAM)	2021	2021
Evaluators of PRGS, TRGS, FRGS	Kementerian Pengajian Tinggi (KPT)	2015	Recent

Student supervisions

I have supervised 57 postgraduate students inclusive of 30 PhD and 27 MSc in Universiti Putra Malaysia. From the group, 8 **PhD students and 12 MSc students have graduated which I am the main-supervisor.**

Graduated Students [Main Supervisor] - PhD

No	Name of candidate	Title of research
1.	Shamima Abdul Rahman	Enhanced antinociceptive effects of mitragynine in combination with morphine via opioid receptor activation
2.	Abu Bakar Muhammad Amali	Development of Product from <i>Moringa oleifera</i> that enhances wound healing in diabetes
3.	Aminu Umar Kura*	Toxic effects of nanocarriers with levodopa in human liver and brain cells
4.	Karthivashan Govindarajan	Characterization & Formulation Of Bio-Active Fraction Of <i>Moringa oleifera</i> Leaves Extract and its Protective Potential Against Acetaminophen Toxicity
5.	Shafinaz Abdul Ghani	Characterisation, Efficacy and Toxicity Potential of Chlorogenic acid and Protocatechuic acid- Layered Double Hydroxide Nanohybrids on a Cancer Model
6.	Tan Woan Sean	Development of Alginate Hydrocolloid Film Permeated Vicenin-2 Accelerates Wound Healing in Streptozotocin Induced <i>Sprague Dawley</i> Rats
7.	Suleiman Al-Haji	Regenerative potential of secretome derived from human exfoliated deciduous teeth stem cells on osteoarthritic chondrocytes
8.	Kalaivani Buskaran	Functionalised Graphene Oxide loaded with Protocatechuic acid for passive and active delivery system
9.	Yogespiriya Shreeraman (on-going)	Investigations on improved physical performance and muscle strength of athletes supplemented with <i>Moringa oleifera</i>

Master with thesis (Main Supervisor)

1.	Masoumeh Tangestani	The Anti inflammatory effect of <i>Moringa oleifera</i> leaves bioactive extract on inflammatory production by LPS-Stimulated RAW 264.7 Murine Macrophage Cell Lines.
2.	Adewoyin Maliq	Anti-inflammatory potential of zinc layered hydroxide intercalated with cinnamic acid (ZCA-nanohybrid) in Lps-induced inflammation using raw 264.7 macrophage
3.	Nur Aimi Syarina Pauzi	Effects of blue-green microalgae aqueous extract on incision wound healing in diabetic rats.
4.	Tan Woan Sean (upgraded to PhD)	<i>Moringa oleifera</i> flower extract suppresses the activation of inflammatory mediators in lipopolysaccharide-stimulated RAW264.7 macrophages via NF κ B pathway
5.	Syazana Akmal Sharifuddin	The effect of concurrent treatment of <i>Moringa oleifera</i> in paracetamol induced hepatotoxicity
6.	Uma Nanthini a/p Linggi Gaudar	A study on <i>moringa oleifera</i> status and its antioxidant effect

7.	Aminu Umar Kura (upgraded to PhD)	Toxicity assessment of nanomaterials containing levodopa using normal cell
8.	Karthivashan Govindarajan (upgraded to PhD)	Identification of bioactive candidate compounds from <i>Moringa oleifera</i> gradient extract responsible for oxidative challenge
9.	*Mohanambal a/p Moorthy	Involvement of mitochondria in diclofenac and ibuprofen induced hepatotoxicity
10.	Hasfar Arynurliyana Binti Abdul Ghofar	The Potential of Amniotic Fluid in healing Diabetic Wound Healing
11.	Khaleel Badran	Anti-inflammatory potential of gallic acid and protocatechuic acid nanoparticles in LPS-induced RAW 264.7 macrophage
12.	Raihana Rosman	In-vitro comparison of anticancer activity between pure gallic acid and gallic acid - iron oxide coated with polyethylene glycol nanoparticles

Seminars/Workshops/Forums (National/Internationals)

UPM Sejong University Biotech Symposium 13/Feb 2015	2015
15th IUBMB-24th FAOBMB-TSBMB International Conference	2014
International Conference of Traditional and Complementary Medicine on Health 2013 – National Research Institute of Chinese Medicine, Taipei – 24-26 May 2013	2013
International Conference on Structural and Physical Properties of Solids (SPPS 2013) 18-20 Nov 2013 ISBN: 978-93-81212-48-6; Dhanbad, India	2013
4th international Congress of Molecular Medicine, Yeditepe University, Istanbul, Turkey	2011
1st International Symposium On Medicinal Plants:, Their Cultivation And Aspects Of Uses Al Baqaa Applied University, Shoubak University College Petra Jordan	2008
55th International Congress And Annual Meeting Of The Society For Medicinal Plant Research Graz , Austria	2007
Biology, Chemistry, Pharmacology And Clinical Studies Ofasian Plants, Surabaya, Indonesia	2007
Yemeni Scientific Conference 2004	2004
The International Symposium on Free Radicals and Health: Molecular Interventions and Protection of Lifesyle-Related Diseases, Sakata, Japan	2003
2nd International Symposium on Antioxidants in Nutrition & Therapy in Bali, Indonesia	2002
17th European Workshop on Drug Metabolism and European ISSX Meeting University of St Andrews, Scotland	2001

National Conferences

Tips to publish in journals CUCMs, Cyberjaya	2015
Biotechnology Conference, Hotel Istana, Kuala Lumpur	
Absence of Target Organ Toxicity with Levodopa Zinc Aluminium Layered Double Hydroxide	2015
Wisdom Leadership Course Series 2; UPM	2014
Training on Malvern Instruments Zetasizer Nano Z Series	2014
Scientific Cancer Research Poster Competition in conjunction of Cancer Awareness Carnival UPM	2014
Measurement Of Uncertainty TNCPI, UPM	2014
Workshop on constructing assessment question: Extended matching Question (EMQ) Preparations	2014
Workshop on Advanced Materials and Nanotechnology 2014 (WAMN2014) Universiti Putra Malaysia	2014
Pameran Rekacipta Penyelidikan dan Inovasi, UPM	2014
38th Annual Conference of Malaysian Society for Biochemistry and Molecular Biology, Putrajaya Marriot Hotel and Spa	2013

Seminar Bioteknologi Kebangsaan (NBS2013)	2013
4th Exposition on Islamic Innovation 2013 - USIM	2013
Animal Neurobehaviour Workshop	2013
4th Annual Diabetic Foot Symposium / Workshop & Trade Exhibition	2012
Kursus Pembangunan Portfolio Pengajaran	2012
4th Malaysian Tissue Engineering and Regenerative Medicine (MTERMS) Scientific Meeting, Langkawi, Malaysia 04/06/2012	2012
8th Microbiology Workshop: Identification of bacteria using molecular technique	2012
1st Refresher Course in Physiology and Pharmacology	2011
Turn your thesis into a book	2011
Kursus Haji Bersiri	2011
Program Intergriti dan Prestasi Tinggi Fasa Ketiga	2011
Essential Role of 2D electrophoresis -mass spectrometry (2DEMS) in Proteomics	2010
Seminar Tumbuhan Ubatan dan Beraroma 2004; Current Trends and Perspectives in FRIM, Kuala Lumpur	2004
Pameran Rekacipta dan Penyelidikan, Fakulti Perubatan dan Sains Kesihatan, UPM, 2004	2004
13th Scientific Conference and 14th Annual General Meeting Electron Microscopy Malaysia in Kuala Lumpur	2004
Malaysian Science Technology Congress (MSTC 2004) in Kuala Lumpur	2004
12 th Scientific Conference and 13 th Annual General Meeting of the Electron Microscopy Society Malaysia, Langkawi, Kedah	2003
28 th Annual Conference of The Malaysian Society for Biochemistry and Molecular Biology at Putrajaya, Kuala Lumpur	2003
Conference in Conjunction with IPTA R & D Exposition 2003 at PWTC Kuala Lumpur	2003
Pameran Rekacipta dan Penyelidikan peringkat universiti 2003	2003
The Seminar Updates on Microscopy and Microanalysis, Universiti Putra Malaysia	2003
5th International Conference on Traditional and Complementary Medicine (INTRACOM 2003)	2003
Pameran Rekacipta dan Penyelidikan peringkat Fakulti Perubatan dan Sains Kesihatan, 2002	2002
5th Scientific congress Federation of Asian & Oceanian Physiological Societies (FAOPS)	2002
4th International Traditional/Complementary Medicine Conference and Exhibition (INTRACOM 2002) in Kuala Lumpur	2002
Malaysian Science and Technology Congress (MSTC 2002) in Kuching, Sarawak	2002
Seminar Update on Microscopy and Microanalysis, in Universiti Putra Malaysia	2002

Patent filed

Title of invention: Methods and compositions for the prevention of opiate tolerance using mitragynine
 Inventor: Sharida Fakurazi, Taufik Hidayat Baharuldin, Mohd Aris Moklas, Shamima Abdul Rahman
 Application number: PI 20110001
 Application date: 14 January 2011
 Country: Malaysia

Title of invention: Moringa oleifera crude extracts and their derived fractions with diabetic wound healing properties
 Inventor: Sharida Fakurazi, Faridah Abas, Palanisamy Arulselvan, Abu Bakar Muhammad Amali
 Application number: PI 2013702555
 Application date: 24/12/2013
 Country: Malaysia

Title of invention: An Intercalated UV Absorbing Product and a Production Method Thereof
 Inventor: Mohd Zobir Husein, Sumaiyah Megat Nabil, Siti Halimah Sarijo, Sharida Fakurazi, Palanisamy Arulselvan
 Application number: PI 2013702416

Application date: 12/12/2013
Country: Malaysia

Process for Producing Fungicide/Fumigant Nano-Delivery System For Controlling Ganoderma Disease and Composition Thereof
Application Number: PI2018703220
Application date: 12-09-2018
Country: Malaysia

Technology Know How

1. Identification of Bioactive Compounds in *Moringa oleifera* responsible in hepatoprotective activities

Inventor: Kathivashan Govindarajan, Sharida Fakurazi, Faridah Abas

2. Biocompatible nanoscale Drug Delivery System for Anti-Tuberculosis Drug Based on Para-amino Salicylic Acid and Zn/Al-Layered Double Hydroxides

Inventor: Saifullah Bullo, Mohd Zobir Hussein, Sharida Fakurazi