

# MUHAMMAD NOR BIN OMAR



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
- Email address:  
[mnoromar@iium.edu.my](mailto:mnoromar@iium.edu.my)

## ACADEMIC QUALIFICATION

- Ph.D in Chemistry
- Master of Science
- Diploma in Personal Management
- Bachelor of Science (Hons) Chemistry

## TEACHING RESPONSIBILITIES

ANALYTICAL METHODS FOR FUNCTIONAL FOODS AND NUTRACEUTICALS	2007/2008 2010/2011 2013/2014 2014/2015
CHEMISTRY & BIOCHEMISTRY OF NATURAL PRODUCTS	2008/2009
CHEMISTRY AND BIOCHEMISTRY OF NATURAL PRODUCTS	2018/2019
CHEMISTRY OF FATS AND OILS	2015/2016 2018/2019
FATS AND OILS CHEMISTRY AND TECHNOLOGY	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
FOOD BIOTECHNOLOGY	2008/2009
FOOD CHEMISTRY	2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
GENERAL CHEMISTRY	2014/2015 2018/2019 2019/2020
HALAL AND HARAM IN FOOD INGREDIENTS AND PROCESSING	2017/2018
HALAL FOODS AND RELATED PRODUCTS	2018/2019
HALAL&HARAM IN FOOD INGREDIENTS & PROCESSING	2009/2010 2013/2014
NANOMEDICINE IN HEALTHCARE	2014/2015
ORGANIC CHEMISTRY	2014/2015
ORGANIC CHEMISTRY I	2014/2015 2015/2016 2016/2017 2017/2018
ORGANIC CHEMISTRY II	2014/2015 2015/2016 2016/2017 2017/2018

PHYTOCHEMISTRY

2016/2017

PLANT NATURAL PRODUCTS

2016/2017 2017/2018 2018/2019 2019/2020

## RESEARCH PROJECTS

### In Progress

**2018 - Present** Evaluation of antihypertensive mechanisms and pathways modulated by *Syzygium polyanthum* leaves fraction: In vitro study.

**2017 - Present** Plant Based Burger Patties

**2016 - Present** Sample Gamat Analysis

**2016 - Present** Accumulation of rare earth elements (REEs) in *Pistia stratiotes* (water lettuce) and *Oreochromis niloticus* (tilapia) in REEs industrial wastewater system.

**2016 - Present** Analysis on the Inhibition of Periodontal Pathogens and its Virulence Genes Expression by Virgin Coconut Oil using Quantitative Real-Time Reverse Transcription-PCR(qRT-PCR)

**2016 - Present** Synthesis, Characterization and Reaction Mechanism Study of a Novel HIV Protease Inhibitor from a Sugar-based Thiosemicarbazone Series using Density Functional Theory

**2015 - Present** Supercritical Fluids Extraction Method Development for Extraction of a New Potential Halal Protease from *Anacardium occidentale* Fruit

**2015 - Present** Bio-Assay Guided Fractionation of Hypotensive Compounds from *Syzygium Polyanthum* Wight (Walp.)var. *Polyanthum* Leaves

**Unknown - Present** Chemosensor Development for Metal Ions Recognition in Lake and River Water Samples

### Completed

**2016 - 2019** Accumulation of rare earth elements (REEs) in *Pistia stratiotes* (water lettuce) and *Oreochromis niloticus* (tilapia) in REEs industrial wastewater system.

**2016 - -1** Accumulation of rare earth elements (REEs) in *Pistia stratiotes* (water lettuce) and *Oreochromis niloticus* (tilapia) in REEs industrial wastewater system.

**2015 - 2019** Supercritical Fluids Extraction Method Development for Extraction of a New Potential Halal Protease from *Anacardium occidentale* Fruit

**2015 - 2018** Bio-Assay Guided Fractionation of Hypotensive Compounds from *Syzygium Polyanthum* Wight (Walp.)var. *Polyanthum* Leaves

**2015 - 2018** The Nutritional Composition of Breast Milk and Prophetic Foods Consumption Among Nursing Mothers in Kuantan, Pahang

- 2014 - 2016** Biotransformation Of Artemisinin And Asiaticoside: Malaysian Tropical Plant Phytochemicals
- 2014 - 2018** In Vitro Anticancer Potentials Of Ethyl P-Methoxycinnamate (EPMC) An Active Ingredient Of Cekur (Kaempferia Galanga) On Human Cancer Cell Lines Differing In P53 Status.
- 2013 - 2018** Alternative of Halal and Nutritious Meat Balls and Sausages from Unripe Jackfruits and Banana Flowers
- 2013 - 2018** Alternative of Halal and Nutritious Meat Balls and Sausages from Unripe Jackfruits and Banana Flowers
- 2011 - 2012** KVC Book Project 2011- Sustainable Utilization of Malaysian Agrowaste
- 2010 - 2013** Bio transformation of Phytochemical Compounds from Malaysia Rainforest and Pakistani Plants for Pharmaceutical Purposes
- 2010 - 2013** Chemoenzymatic Conversion of w-fatty acids extracted from Malaysian Giant Snakehead and catfish
- 2010 - 2014** Synthesis, Characterization and Structural Studies of Acylthiourea Carboxylic Acid Derivatives and their Metal Complexes and their Biological Activities
- 2010 - 2011** Phytochemical and Antioxidant Study Of Belimbing Hutan for Cardiovascular Control
- 2010 - 2011** Screening on the Toxicity Properties of Mixture of Selected Malaysia Herbs in Cultured Vero and WRL-68 cells
- 2009 - 2012** Phytochemical and Galactagogue effects of banana flowers on milk production
- 2009 - 2010** Study on Secondary Metabolites of Garcinia Griffithii (Kandis Gajah) Leaves
- 2009 - 2011** Formulation and Characterization of Soft Gel Composites between Carrageenan and Starch for packaging of Liquid Drugs
- 2009 - 2010** Studies on Water Quality and Fish Communities in the Kuantan Estuary Pahang Malaysia
- 2009 - 2011** Site Selection of Nesting Ground and Ecophysiology of Horseshoe Crab *Carcinoscopius rotundecauda* and *Tachypleus gigas* from Pahang Coast
- 2009 - 2012** Isolation of lactic acid bacteria(LAB)producing inhibitory proteins from local poultry and fermented food
- 2009 - 2011** Modification of Phytochemical and Phytoestrogen Compounds from Selected Plants in Pahang Rainforest.
- 2009 - 2013** An Exploration of antibacterial and antifungal potential of *andropogon paniculata*(hempedu bumi) in vitro
- 2008 - 2010**  $\omega$ -fatty Acid Profiles of Mudskippers from Malaysian Mangrove and Intertidal Zones
- 2006 - 2012** Studies on Mangrove in Pulau Toba, Langkawi

## PUBLICATIONS

### Article

- 2019** [Dietary status of exclusively breastfeeding mothers: The Influence of traditional postpartum dietary practices.](#) International Journal of Allied Health Sciences , 3 (2) pp.634-642
- 2019** [Fatty acid evaluation and antimicrobial activity of virgin coconut oil and activated virgin coconut oil on Streptococcus mutans.](#) Archives of Orofacial Sciences , 14 (2) pp.1-17
- 2019** [Dietary intake of mothers who practised traditional confinement during exclusive breastfeeding period.](#) Malaysian Journal of Medicine and Health Sciences , 15 (2) pp.39-46
- 2019** [Identification and quantification of quercetin, a major constituent of Artocarpus altilis by targeting related genes of apoptosis and cell cycle: in vitro cytotoxic activity against human lung carcinoma cell lines.](#) Nutrition and Cancer pp.1-14
- 2018** [In vitro antibacterial activity of vernonia amygdalina leaves extracts against pathogen of pineapple heart rot disease.](#) Gading Journal for Science and Technology , 1 (1) pp.7-15
- 2018** [The knowledge, attitude and practice of prophetic foods consumption among exclusively breastfeeding mothers in Kuantan, Pahang: an exploratory study.](#) International Journal of Allied Health Sciences , 2 (1) pp.234-243
- 2018** [The prophetic foods consumption among exclusively breastfeeding mothers in Kuantan, Pahang: An exploratory study.](#) International Journal of Allied Health Sciences , 2 (1) pp.234-243
- 2018** [GC-MS analysis of phytochemical compounds in syzygium polyanthum leaves extracted using ultrasound-assisted method.](#) Pharmacognosy Journal , 10 (1) pp.110-119
- 2018** [Antihypertensive effect of fractions derived from an aqueous extract of Syzygium polyanthum on anaesthetized spontaneously hypertensive rats.](#) Health and the Environment Journal , 9 (Supplement 1) pp.14
- 2018** [Assessment of prophetic foods consumption among lactating mothers: Combining quantitative & qualitative approaches.](#) The International Medical Journal Malaysia , 17 (Special Issue 1) pp.181-185
- 2017** [Lactogenic effects of tannin and aglycone form of aqueous extract \(AFAE\) from Musa x paradisiaca flower on lactating rats..](#) Malaysian Applied Biology , 46 (3) pp.9-14
- 2017** [Cytotoxicity effects of extracts and essential oil of kaempferia galanga on cervical cancer C33A cell line.](#) Oriental Journal of Chemistry , 33 (4) pp.1659-1664
- 2017** [Bioaccumulation of rare earth element by water lettuce \(Pistia stratiotes\).](#) Oriental Journal of Chemistry , 33 (3) pp.1097-1102
- 2017** [Wound healing properties of biotransformed asiaticoside by aspergillus niger.](#) Journal of Sustainability Science and Management , 12 (2) pp.96-102

- 2017** [Lactogenic effects of tannin and aglycone form of aqueous extract \(AFAE\) from \*Musa x paradisiaca\* flower on lactating rats.](#) Malaysian Applied Biology Journal , 46 (3) pp.9-14
- 2016** [Cytotoxicity activity of biotransformed ethyl p-methoxycinnamate by \*Aspergillus niger\*.](#) Oriental Journal of Chemistry , 32 (5) pp.2732-2734
- 2015** [Evaluation of antioxidant, total phenol and flavonoid content and antimicrobial activities of \*Artocarpus altilis\* \(breadfruit\) of underutilized tropical fruit extracts.](#) Applied Biochemistry and Biotechnology , 175 (7) pp.3231-3243
- 2014** [Antimicrobial activity and microbial transformation of ethyl p-methoxycinnamate extracted from \*Kaempferia Galanga\*.](#) Oriental Journal of Chemistry , 30 (3) pp.1037-1043
- 2014** [Bioconversion of  \$\omega\$ -fatty acid from giant snakehead \(\*Channa micropeltes\*\) fish oil.](#) Oriental Journal of Chemistry , 30 (3) pp.1133-1136
- 2014** [Studies on frying quality of virgin coconut oil and shortening blends.](#) Oriental Journal of Chemistry , 30 (3) pp.1279-1286
- 2014** [Microbial transformation of \*Clarias gariepinus\* oil by \*Pseudomonas aeruginosa\*.](#) Oriental Journal of Chemistry , 30 (3) pp.1147-1151
- 2014** [Effect of \*Plumeria alba\*'s bioactive extract against \*Colletotrichum gleosporoides\* in vitro and in vivo.](#) Journal of Agricultural Science and Technology , B 4 (3) pp.195-199
- 2014** [Laccase enzymes: purification, structure to catalysis and tailoring.](#) Protein and Peptide Letters , 21 pp.707-713
- 2014** [HPLC separation and isolation of asiaticoside from \*Centella asiatica\* and its biotransformation by \*A. niger\*.](#) International Journal of Pharma Medicine and Biological Sciences , 3 (3) pp.1-8
- 2014** [Impact of microbial transformation metabolome of Asiaticoside on wound healing.](#) Regenerative Research , 3 (2) pp.76-77
- 2013** [A lignolytic fungi with laccase activity isolated from Malaysian local environment for phytochemical transformation purposes.](#) International Research Journal of Biological Sciences , 2 (2) pp.51-54
- 2013** [Proximate composition and antioxidant activity of dried belimbing dayak \(\*Baccaurea angulata\*\) fruits.](#) Sains Malaysiana , 42 (2) pp.129-134
- 2013** [Biotransformation of ethyl p-methoxycinnamate from \*Kaempferia galanga\* L. using \*Aspergillus niger\*.](#) International Journal of Biosciences , 3 (7) pp.148-155
- 2013** [Centella asiatica: from folk remedy to the medicinal biotechnology - a state revision.](#) International Journal of Biosciences , 3 (6) pp.49-67
- 2013** [Isolation and identification of bioactive compounds from twigs of \*Artocarpus Altilis\*.](#) Merit Research Journal of Environmental Science and Toxicology , 1 (8) pp.147-155
- 2013** [Microbial transformation of natural products.](#) Greener Journal of Biological Sciences , 3 (10) pp.357-364

- 2013** [Supercritical fluid extraction \(SFE\) of Malaysian wild ginger \*Zingiber puberulum\* inflorescence.](#) *Oriental Journal of Chemistry* , 29 (1) pp.89-92
- 2013** [Physicochemical and antioxidant characteristics of \*Baccaurea angulata\* fruit juice extract.](#) *African Journal of Biotechnology* , 12 (34) pp.5333-5338
- 2012** [Oil uptake and deep-frying performance of virgin coconut oil and palm solid shortening blends.](#) *Innova Ciencia* , 4 (7) pp.2-13
- 2012** [Evaluation of the total phenol content and antioxidant potential of plant extract \(\*Plumeria alba\*\).](#) *Innova Ciencia* , 4 (7) pp.73-77
- 2012** [Biotechnological transformation of artemisinin: toward an effective anti-malaria drug.](#) *Biomedical & Pharmacology Journal* , 5 (1) pp.19-24
- 2012** [Biotransformation of  \$\omega\$ -fatty acid from \*Clarias gariepinus\* using \*Psuedomonas aeruginosa\*.](#) *Innova Ciencia* , 4 (6) pp.82-88
- 2012** [Microbial transformations of artemisinin – anti-malaria drug.](#) *Advances in Bioresearch* , 3 (2) pp.27-31
- 2012** [Evaluation of antimicrobial activity of \*Artocarpus altilis\* on pathogenic microorganisms.](#) *Science Series Data Report* , 4 (9) pp.41-48
- 2012** [Investigation of antioxidant activity and phytochemical constituents of \*Artocarpus altilis\*.](#) *Journal of Medicinal Plants Research* , 6 (26) pp.4354-4357
- 2012** [Galactogogue effects on \*Musa x paradisiaca\* flower extract on the lactating rats.](#) *Asian Pacific Journal of Tropical Medicine* , 5 (11) pp.882-886
- 2012** [Azo dyes decolourisation by ABTS-oxidases \(Laccases\) from a fungus from tropical tree.](#) *Biosciences Biotechnology Research Asia* , 9 (2) pp.641-646
- 2012** [Extraction and phytochemical screening from different parts of frangipani \(\*Plumeria alba\*\).](#) *International Research Journal of Basic and Applied Science* , 4 (3) pp.22-25
- 2012** [Antifungal activity of \*Andrographis paniculata\* extracts and active principles against skin pathogenic fungal strains \*in vitro\*.](#) *Pharmaceutical Biology* , 50 (7) pp.850-856
- 2012** [In vitro evaluation of antimicrobial activity of crude extracts of \*Garcinia griffithii\* plant against some pathogenic microorganisms.](#) *Innova Ciencia* , 4 (4) pp.62-67
- 2012** [Preliminary phytochemical screening test of \*Garcinia griffithii\* plant.](#) *Innova Ciencia* , 4 (4) pp.68-74
- 2011** [Phytochemicals constituent and antioxidant activities in \*Musa x paradisiaca\* flower.](#) *European Journal of Scientific Research* , 66 (2) pp.311-318
- 2011** [Bioassay guide isolation of antibacterial compounds from \*Andrographis paniculata\*.](#) *American Journal of Applied Sciences* , 8 (6) pp.525-534
- 2011** [Effects of bioactive constituents extracted from \*Musa x paradisiaca\* flower on milk production \*in Vivo\*.](#) *International Journal of Evidence-Based Healthcare* , 9 (3) pp.313-313

- 2011** [Bioassay guided isolation of antibacterial compounds from \*Andrographis paniculata\*](#). American Journal of Applied Sciences , 8 (6) pp.525-534
- 2011** [Bacteriostatic and bactericidal activities of \*Andrographis paniculata\* extracts on skin disease causing pathogenic bacteria](#). Journal of Medicinal Plants Research , 5 (1) pp.7-14
- 2010** [Screening for antibacterial activity of \*Andrographis paniculata\* used in Malaysian folkloric medicine: a possible alternative for the treatment of skin infections](#). Ethnobotanical Leaflets , 14 (-) pp.445-456
- 2010**  [\$\omega\$ -Fatty acids from Malaysian giant snakehead \(\*Channa micropeltes\*\) fish oil](#). Oriental Journal of Chemistry , 26 (1) pp.1-4
- 2010** [Frying performance of palm-based solid frying shortening](#). Pakistan journal of biological sciences: PJBS , 13 (6) pp.298-302
- 2010** [Antibiotic resistance microbes in tropical mangrove sediments, East Coast Peninsular, Malaysia](#). African Journal of Microbiology Research , 4 (8) pp.640-645
- 2010** [Study on  \$\omega\$ -fatty acids from Malaysian giant mudskipper \(\*Periophthalmodon schlosseri\*\) fish oil](#). Oriental Journal of Chemistry , 26 (3) pp.861-864
- 2009** [Solid phase microextraction analysis of volatile constituents of heated palm olein and selected oils](#). Oriental Journal of Chemistry , 25 (4) pp.825-832
- 2009** [Bacterial pollution in Molluscs Arch Clam, \*Orbicularia orbiculata\* and Blood Cockle, \*Anadara granosa\* of Pahang estuary, Malaysia](#). Journal of Biological Sciences , 9 (8) pp.841-850
- 2009** [Accumulation of lead and copper in \*Rhizophora apiculata\* from Setiu mangrove forest, Terengganu, Malaysia](#). Journal of Environmental Biology , 30 (5 Supp) pp.821-824
- 2007** [Changes of headspace volatile constituents of palm olein and selected oils after frying French fries](#). Pakistan Journal of Biological Sciences , 10 (7) pp.1044-1049
- 2007** [Biotransformation and stereoselective synthesis of pharmaceutical molecules from linoleic acid](#). Biotechnology , 6 (2) pp.283-287
- 2004** [Synthesis of 2-substituted 4\(R\)-hydroxy-2-cyclopenten-1-one, a prostaglandin intermediate with methyl oleate from palm oil](#). Journal of Oil Palm Research , 16 (2) pp.37-43
- 2003** [Stereoselective preparations of epoxy-, fluoro- and related derivatives of ricinoleic acid and 13\(S\)-hydroxyoctadeca-9\(Z\),11\(E\)-dienoic acid](#). ARKIVOC , 2003 (vii) pp.190-199
- 2003** [Asymmetric Sharpless epoxidation of 13Hydroxy-9Z,11E-octadecadienoic acid \(13S-HODE\)](#). European Journal of Lipid Science and Technology , 105 (1) pp.43-44
- 2003** [Scaling-up the production of 13s-hydroxy-9Z,11E-octadecadienoic acid \(13S-HODE\) through chemoenzymatic technique](#). Bulletin of Korean Chemical Society , 24 (3) pp.397-399
- 2002** [Production of instant 'nasi lemak' flavour ingredient from palm olein](#). Journal of Tropical Agriculture and Food Science , 30 (1) pp.95-98

- 1999 [Sebatian aroma dalam minyak Citrus grandis \(Aroma compounds in Citrus grandis oil\)](#). Journal of Tropical Agriculture and Food Science , 27 (2) pp.231-236
- 1999 [Volatile aroma compounds in Citrus hystrix oil](#). Journal of Tropical Agriculture and Food Science , 27 (2) pp.225-229
- 1998 [Simultaneous determination of moisture and oil contents in palm fruits by near infrared spectroscopy](#). Journal of Tropical Agriculture and Food Science , 26 (1) pp.73-77
- 1991 [Sebatian perisa dalam minyak halia \(Zingiber officinale\) dan lengkuas \(Languas galanga\)-\(Flavour components in ginger and galanga oil\)](#) . MARDI Research Journal , 19 (1) pp.137-142
- 1987 [Perisa koko](#). Teknologi Makanan , 6 pp.31-35
- 1985 [The essential oil of greater galanga \(Alpinia galanga\) from Malaysia](#) . Phytochemistry , 24 (1) pp.93-96
- 1983 [Analisa minyak pati dari serai \(Analysis of essential oil from lemongrass\)](#). Teknologi Pertanian , 4 (2) pp.185-188
- 1983 [Aspek-aspek penting dalam kajian minyak pati \(Important aspects in essential oils research\)](#). Teknologi Pertanian , 4 (1) pp.80-85
- 1981 [Ekstraksi minyak pati dari limau \(Citrus Spp.\) \(Extraction of essential oils from Citrus spp.\)](#). Teknologi Pertanian , 2 (1) pp.80-85
- 1977 [Photolysis of 1-Octene and Molybdenum Hexacarbonyl in Tetrahydrofuran](#). Sains Malaysiana , 6 (2) pp.133-138

#### Conference or Workshop Item

- 2019 [Anti-neoplastic potential of ethyl-p-methoxycinnamate of Kaempferia galanga on oral cancer cell lines](#). In: **Conference on BioMedical and Advanced Materials (Bio-CAM 2017)**
- 2018 [Palm-O-lite: palm oil based aerosol for culinary applications](#). In: **29th International Invention, Innovation And Technology Exhibition (ITEX) 2018**
- 2018 [Antihypertensive effect of fractions derived from aqueous extract of syzygium polyanthum on anaesthetized spontaneously hypertensive rats](#). In: **Health Sciences Symposium (HSS) 2018**
- 2018 [Statistical analysis and molecular docking study on halal potential antioxidant from anacardium occidentale fruits](#). In: **International Conference of Analytical Sciences (SKAM31)**
- 2017 [Bioaccumulation of Rare Earth Elements \(REEs\) in Pistia stratiotes \(Water Lettuce\) in REEs industrial wastewater system](#). In: **International Symposium on Pure and Applied Chemistry (ISPAC 2017)**
- 2017 [Extraction of protease from Anacardium occidentale \(Cashew\) fruit using response surface methodology](#). In: **6th International Conference on Advancement in Science and Technology (iCAST 2017)**
- 2016 [Aplikasi bioteknologi dalam industri makanan](#). In: **Festival Agro Makanan & Bioteknologi (FAMB 2016)**



- 2016 [Potential of untapped local species, "Chicha" \(Stereospermum fimbriatum\), as an alternative for skin infection treatment.](#) In: **The 14th Symposium of Malaysian Society of Applied Biology (MSAB 2016)**
- 2016 [Biotransformation of ethyl p-methoxycinnamate and cytotoxicity activity of its biotransformed product.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [In vitro antibacterial activity of Vernonia amygdalin a leaves extracts against pathogen of heart rot disease.](#) In: **Regional Conference on Sciences, Technology and Social Sciences (RCSTSS 2016)**
- 2016 [Subcritical carbon dioxide extraction of stereospermum fimbriatum's stem bark and the extract's potential as an anti-dermal infection agent.](#) In: **2nd International Conference on Industrial Pharmacy (ICIP 2016)**
- 2016 [Biotransformation of asiaticoside using Aspergillus niger and pharmaceutical properties of its transformed product.](#) In: **International Conference on Natural Product (ICNP 2016)**
- 2016 [Thin Layer Chromatography \(TLC\) method.](#) In: **A Workshop Series on Laboratory Practice in Natural Product Research (SOLPINAR 2016)**
- 2016 [Accumulation of rare earth elements \(REEs\) in Pistia stratiotes \(water lettuce\) and Oreochromis niloticus \(tilapia\) in REEs industrial wastewater system.](#) In: **Symposium Kimia Analisis Malaysia SKAM 29 2016 Pulau Pinang (The 29th Malaysian Analytical Chemistry Symposium)**
- 2014 [Distillation of bioactives from clove and lemongrass .](#) In: **Workshop Series on the Lab Practice in Natural Products Research (SOLPINAR)**
- 2014 [Evaluation of antioxidant, total phenols and flavonoids content and antimicrobial activities of Artocarpus altilis \(breadfruit\) of underutilized tropical fruit extracts.](#) In: **International Health Conference IIUM 2014**
- 2013 [Study on zingiber puberulum oil using supercritical fluid extraction \(SFE\).](#) In: **Conference on New Technologies of Chemical Engineering (NTCE 2013)**
- 2013 [Supercritical fluid extraction \(SFE\) - a green process of extracting bioactive compounds from Zingiberaceae plants.](#) In: **IIUM International Congress on Science (ICOS 2013) - International Symposium on Biotechnology Advances (ISBA)**
- 2012 [The effect of diosgenin and condensed tannin in Musa x paradisiaca flower on rats milk composition and growth rate of suckling pups.](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2012**
- 2012 [Biotransformation of ω fatty acids using pseudomonas aeruginosa.](#) In: **International Biotechnology Symposium and Exhibition (IBS 2012)**
- 2011 [Formulation of topical dosage form of Pangasius sutchi and their wound healing activities.](#) In: **4th International Nanoscience and Nanotechnology Symposium (NNS2011)**
- 2011 [Effects of bioactive constituents in Musa x paradisiaca flower on milk production in vivo.](#) In: **The Second Euro-Med Conference- "Plant Natural Products: From Biodiversity to Bioindustry"**

- 2011 [Toxicity effect of mixture of selected Malaysia herbs in cultured Vero and WRL-68 cells.](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Biotransformation products from Clarius batrachus oil.](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Bioassay guided isolation and antimicrobial compounds from Andrographis paniculata \(Hempedu Bumi\).](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [New cooking oil from virgin coconut-palm olein blends.](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Determination of polyphenols compounds of Baccaurea angulata \(Belimbing Dayak\).](#) In: **International Health Conference IIUM 2011**
- 2011 [Antimicrobial activities of Plumeria alba extracts .](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2010 [Secondary metabolites and bioactivity studies of Garcinia griffithii plant.](#) In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Phytochemical screening and galactagogue of banana flower \(Musa x paradisiaca ABBB\) extract on lactating rats.](#) In: **3rd International Conference for Young Chemists 2010**
- 2010 [Screening of the antifungal activity of Andrographis paniculata on Candida albicans and Trichophyton mentagrophytes.](#) In: **45th Annual Meeting British Society for Medical Mycology**
- 2010 [VircoSpray - a sprayable virgin coconut oil.](#) In: **Invention, Innovation and Technology Exhibition (ITEX 2010)**
- 2010 [Biotransformation of  \$\omega\$ -fatty acid - in search of erectile dysfunction treatments.](#) In: **International Conference on Advancement in Science and Technology (iCAST2010): The Science of Traditional Practices in Health and Disease**
- 2010 [Phytochemical constituents and antioxidant activities of banana flower of Musa x paradisiaca.](#) In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Fatty acid composition of Malaysian giant mudskipper \(Periophthalmodon schlosseri\) fish oil.](#) In: **9th Conference of the International Society for the Study of Fatty Acids and Lipids (ISSFAL) 2010**
- 2010 [Galactagogue effects of banana flower extract on lactating rats.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Product development from mudskipper and giant snakehead fish oils.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Phytochemical analysis and antimicrobial activity from different parts of Plumeria alba.](#) In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2009 [Oxidative bioconversion of  \$\omega\$ -fatty acid from giant snakehead fish oil.](#) In: **Bandung International Conference on Medicinal Chemistry**

- 2009 [In vitro screening of Andrographis paniculata \(Hempedu bumi\) for antibacterial activity using disc diffusion method.](#) In: **23rd Malaysian Society of Pharmacology and Physiology Scientific (MSPP) Meeting (Theme: New Technologies for improving quality of life)**
- 2009 [Topical cream from Channa micropeltes \(Giant Snakehead fish\) oil for arthritis.](#) In: **Bio Malaysia 2009**
- 2009 [Chemoenzymatic and biotransformation approaches for pharmaceutical applications.](#) In: **2nd National Symposium on Fermentation Technology (NSFT 2009)**
- 2009 [Bioconversion of  \$\omega\$ -fatty acids extracted from giant snakehead and mudskipper fish oils.](#) In: **2nd National Symposium on Fermentation Technology (NSFT 2009)**
- 2009 [Bioconversion of  \$\omega\$ -fatty acid from giant snakehead \(Channa micropeltes\) fish oil.](#) In: **National Symposium on Organic Synthesis (NaSOS) 2009**

**Book  
Book Section**