

SHAFIDA BINTI ABD HAMID



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
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ACADEMIC QUALIFICATION

- Ph.D in Organic Chemistry
- Bachelor in Chemistry
- A Level

TEACHING RESPONSIBILITIES

ANALYTICAL SPECTROSCOPY	2014/2015 2015/2016 2016/2017 2019/2020
CHEMISTRY & BIOCHEMISTRY OF NATURAL PRODUCTS	2009/2010 2010/2011 2011/2012
COMMERCIALISATION & CURRENT ISSUES IN BIOTECH	2012/2013
FOOD CHEMISTRY	2009/2010 2010/2011
MEDICINAL CHEMISTRY I	2015/2016 2016/2017 2018/2019 2019/2020
ORGANIC CHEMISTRY	2011/2012 2012/2013
ORGANIC CHEMISTRY I	2013/2014 2015/2016 2016/2017 2017/2018 2019/2020
ORGANIC CHEMISTRY II	2015/2016 2017/2018 2019/2020
ORGANIC SYNTHESIS	2015/2016 2016/2017 2018/2019 2019/2020
PHYSICAL ORGANIC CHEMISTRY & REACTION MECHANISM	2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
RESEARCH METHODOLOGY	2017/2018 2018/2019 2019/2020

RESEARCH PROJECTS

In Progress

2019 - Present Knowledge Transfer on Sustainable Waste Management to School Teachers: Towards Establishment of Eco-School

2019 - Present Knowledge Transfer to School Teachers and Technical Staff to Enhance Laboratory Skills and Management to Promote Sustainable Lab Practices

- 2019 - Present** Development of smart wound dressing functionalized PCL/graphene oxide (PCL/GO) nanofibers for potential wound healing.
- 2019 - Present** High Performance Hydrophobic Drug Carrier from Polycaprolactone-b-poly(ethylene glycol) Star-shaped Polymers Hydrogel Blend As Potential for Wound Healing Application
- 2018 - Present** Bacteria-surface interaction of chemically modified Polycaprolactone/Chitosan nanofibers as the antimicrobial application.
- 2018 - Present** Quest on Finding Potential Ebola VP40 Inhibitors: Molecular Dockings and Molecular Dynamics Simulation Studies
- 2018 - Present** Bacteria-surface interaction of chemically modified Polycaprolactone/Chitosan nanofibers as the antimicrobial application.
- 2018 - Present** Anti proliferative properties of benzimidazole derivatives bearing chloro and nitro substituents on MDA-MB- 231, MCF-7 and MCF10-A human breast cell lines
- 2015 - Present** Mechanism of (-) Hydroxycitric Acid from Dried Fruit of Garinia Atroviridis on 3T3-L1 Adipocyte Cells as an Halal Antiobesity Product
- 2014 - Present** Design, Synthesis and Characterization of 2,4-Disubstituted-1,3 Thiazole Amino Acid Derivatives towards its Applications on Antimicrobial and Antioxidant Activities

Completed

- 2015 - 2017** Mechanism of (-) Hydroxycitric Acid from Dried Fruit of Garinia Atroviridis on 3T3-L1 Adipocyte Cells as an Halal Antiobesity Product
- 2014 - 2018** Fundamental Study on Protein Expression of Several Selected Harmful Algal Bloom (HAB) Species During Different Growth Phases
- 2014 - 2018** Fundamental Study on Protein Expression of Several Selected Harmful Algal Bloom (HAB) Species During Different Growth Phases
- 2014 - 2018** Design, Synthesis and Characterization of 2,4-Disubstituted-1,3 Thiazole Amino Acid Derivatives towards its Applications on Antimicrobial and Antioxidant Activities
- 2014 - 2018** Design, Synthesis and Characterization of 2,4-Disubstituted-1,3 Thiazole Amino Acid Derivatives towards its Applications on Antimicrobial and Antioxidant Activities
- 2013 - 2017** Synthesis and Characterization of Novel Organic Molecules Derived from Carvone and Docking Analysis of the Synthesized Compounds in Neuraminidase Active Sites
- 2013 - 2017** Cell-Scaffold Interaction using Water-Soluble Calixarene Functionalized Polycaprolactone/Gelatin Nanofiber for the Improvement of Cell Adhesion
- 2013 - 2015** In vitro antiurolithiatic effect of selected Prophetic medicines
- 2013 - 2016** Proteomic Analysis of Bioactive Peptides from Different Plant Parts of Phyllanthus niruri (Dukung Anak)

- 2013 - 2016** Physico-Chemical and Biocompatibility Studies of Gentamicin Loaded Polycaprolactone - Collagen Based Protein Nanofiber
- 2012 - 2013** Screening of Essential Oil From Different Varieties of Rhizome of Zingiber Officinale and Its Antimicrobial Activities
- 2012 - 2015** Synthesis and Characterisation of Novel Water-Soluble Calixarene Derivatives: Exploratory Study on Their Biological Activities for Drug Design
- 2012 - -1** Screening of Essential Oil From Different Varieties of Rhizome of Zingiber Officinale and Its Antimicrobial Activities
- 2012 - 2014** Synthesis, Characterization, Docking and Biological assay of Benzimidazole Derivatives
- 2012 - 2015** Design, Synthesis, Characterisation and Cytotoxicity Study of New Chiral Calixarene Derivatives
- 2010 - 2012** Design, Synthesis and Characterisation of New Benzimidazole Derivatives Toward Investigation as Potential Neuraminidase Inhibitors
- 2009 - 2012** Synthesis of Benzoic Acid Derivatives : Application as Neuraminidase Inhibitors

PUBLICATIONS

Article

- 2019** [Synthesis and characterization of star-shaped \(PCL-B-PEG\) as potential electrospun microfibres.](#) Sains Malaysiana , 48 (10) pp.2265-2275
- 2019** [Macromolecules as targeted drugs delivery vehicles: an overview.](#) Designed Monomers and Polymers , 22 (1) pp.91-97
- 2019** [The nature of forensic ethics in bioanalytical science.](#) Revelation and Science , 9 (1) pp.9-17
- 2018** [Biomedical applications of aromatic azo compounds.](#) Mini-Reviews in Medicinal Chemistry , 18 (18) pp.1548-1558
- 2018** [In silico study of carvone derivatives as potential neuraminidase inhibitors.](#) Journal of Molecular Modeling , 24 (4) pp.1-13
- 2018** [Synthesis, in-vitro and in silico studies of azo-based calix\[4\]arenes as antibacterial agent and neuraminidase inhibitor: a new look into an old scaffold.](#) Frontiers in Chemistry , 6 pp.1-10
- 2018** [Science@iium.](#) science@iium pp.1-40
- 2018** [science@iium.](#) science@iium (December 2018) pp.1-40
- 2018** [Toxicity profiles between strains of Alexandriumtamiyavanichii.](#) International Journal of Advances in Science Engineering and Technology , 6 (2) pp.23-27

- 2018** [Proteomics of broiler's liver.](#) International Journal of Advances in Science Engineering and Technology , 6 (2) pp.8-17
- 2017** [Dinoflagellates: ecological approaches and spatial distributions in Malaysia waters.](#) Journal of Oceanography and Marine Research , 5 (3) pp.1000164-1-7
- 2017** [A lignan with glucose uptake activity in 3T3-L1 adipocytes from the stem bark of Knema patentinervia.](#) Pakistan Journal of Pharmaceutical Science , 30 (4) pp.1335-1339
- 2016** [Human topoisomerase II alpha as a prognostic biomarker in cancer chemotherapy.](#) Tumor Biology , 37 (1) pp.1-9
- 2015** [Chemical composition and antibacterial activity of essential oils from three aromatic plants of the Zingiberaceae family in Malaysia.](#) Journal of Physical Science , 26 (1) pp.71-81
- 2015** [Applications of calixarenes in cancer chemotherapy: facts and perspectives.](#) Drug Design, Development and Therapy , 9 pp.2831-2838
- 2015** [Improved Fischer esterification of substituted benzoic acid under sealed-vessel microwave condition.](#) Journal of Physical Science , 26 (2) pp.53-61
- 2014** [Haplophytin B from maclurodendron porteri.](#) Pakistan Journal of Pharmaceutical Sciences , 27 (1) pp.179-181
- 2013** [Microwave-assisted synthesis of sec/tert-butyl 2-arylbenzimidazoles and their unexpected antiproliferative activity towards ER negative breast cancer cells.](#) Journal of Enzyme Inhibition and Medicinal Chemistry , 28 (6) pp.1255-1260
- 2012** [Ethyl 1-\(2-hydroxyethyl\)-2-\[2-\(methylsulfanyl\)ethyl\]-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online , 68 (1) pp.o197-o198
- 2012** [Anti-Proliferation Effects of Benzimidazole Derivatives on HCT-116 Colon Cancer and MCF-7 Breast Cancer Cell Lines.](#) Asian Pacific Journal of Cancer Prevention , 13 (2012) pp.4075-4079
- 2012** [Straightforward synthesis of novel 1-\(2'- \$\alpha\$ -O-D-glucopyranosyl ethyl\) 2-arylbenzimidazoles.](#) Molecules , 17 (8) pp.9887-9899
- 2012** [2-sec-Butyl-1-\(2-hydroxyethyl\)-1H-benzimidazole-5-carboxylic acid.](#) Acta Crystallographica Section E Structure Reports Online , E68 (7) pp.o1995
- 2011** [Ethyl 1-\(2-hydroxyethyl\)-2-propyl-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online , 67 (10)
- 2011** [Synthesis of Au/Al₂O₃ nanocatalyst and its application in the reduction of p-Nitrophenol.](#) Journal of the Chinese Chemical Society , 58 (5) pp.593-601
- 2011** [ethyl 1-sec-butyl-2-\(4-fluorophenyl\)-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online (E67) pp.02938
- 2011** [Ethyl 2-\(4-bromophenyl\)-1-sec-butyl-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online , E67 pp.o3453-o3453

- 2011** [Utilization of waste cockle shell \(Anadara Granosa\) in biodiesel production from palm olein: Optimization using response surface methodology .](#) Fuel , 90 (7) pp.2353-2358
- 2011** [Acid corrosion inhibition of copper by mangrove tannin.](#) Pigment & Resin Technology , 40 (2) pp.118-122
- 2010** [Ethyl 1-sec-butyl-2-phenyl-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online , E66 pp.o796-o797
- 2010** [Ethyl 4-\(2-hydroxyethylamino\)-3-nitrobenzoate.](#) Acta Crystallographica Section E Structure Reports Online , 66 (4) pp.o846-o847
- 2010** [Ethyl 1-tert-butyl-2-\(4-methoxyphenyl\)-1H-benzimidazole-5-carboxylate.](#) Acta Crystallographica Section E Structure Reports Online , 66 (4) pp.o776-o777
- 2010** [Ethyl 1-\(2-hydroxyethyl\)-2-phenyl-1H-benzimidazole-5-carboxylate .](#) Acta Crystallographica Section E Structure Reports Online , E66 pp.o1824-o1825
- 2010** [Ethyl 3-amino-4-\[\(2-hydroxyethyl\)amino\]benzoate.](#) Acta Crystallographica Section E Structure Reports Online , 66 (8) pp.o2141-o2141
- 2010** [Crab and Cockle Shells as Catalysts for the Preparation of Methyl Esters from Low Free Fatty Acid Chicken Fat.](#) Journal Of The American Oil Chemists' Society , 88 (2) pp.283-288
- 2010** [Synthesis and characterization of gold nanoparticles supported on zinc oxide via the deposition-precipitation method.](#) Turkish Journal of Chemistry , 34 pp.639-650
- 2009** [2-\[1-\(2-Hydroxy-3-methoxybenzyl\)-1H-benzimidazol-2-yl\]-6-methoxyphenol methanol 1.13-solvate.](#) Acta Crystallographica Section E Structure Reports Online , 65 (4) pp.o925-o926
- 2009** [Utilization of waste crab shell \(Scylla serrata\) as a catalyst in palm olein transesterification.](#) Journal of Oleo Science , 58 (10) pp.499-502
- 2009** [Biodiesel from adsorbed waste oil on spent bleaching clay using CaO as a heterogeneous catalyst.](#) European Journal of Scientific Research , 33 (2) pp.347-357
- 2009** [Biodiesel production via transesterification of palm olein using waste mud crab \(Scylla serrata\) shell as a heterogeneous catalyst.](#) Bioresource Technology , 100 (24) pp.6362-6368
- 2009** [4-ethylamino-3-nitrobenzoic acid.](#) Acta Crystallographica Section E Structure Reports Online , E65 (5) pp.o1079
- 2009** [Ethyl 4-butylamino-3-nitrobenzoate.](#) Acta Crystallographica Section E , E65 pp.o2070-o2071
- 2009** [4-\(sec-butylamino\)-3-nitrobenzoic acid.](#) Acta Crystallographica Section E Structure Reports Online , E65 (7) pp.o1557-o1558
- 2009** [4-tert-Butylamino-3-nitrobenzoic acid.](#) Acta Crystallographica Section E Structure Reports Online , E65 (6) pp.o1233-o1234

- 2009 [2-\[1-\(2-hydroxy-3-methoxybenzyl\)-1H-benzimidazol-2-yl\]-6-methoxyphenol monohydrate.](#) Acta Crystallographica Section E Structure Reports Online , E65 (4) pp.o913-o914
- 2009 [6,6'-Dimethoxy-2,2'-\[p-phenylenebis\(nitrilomethylidyne\)\]diphenol chloroform disolvate.](#) Acta Crystallographica Section E Structure Reports Online , 65 (4) pp.O680-O681
- 2009 [Simultaneous determination of atenolol and chlorthalidone in pharmaceutical preparations by capillary-zone electrophoresis.](#) Analytical letters , 42 (10) pp.1458-1470
- 2009 [Possible origin of electronic effects in Rh\(I\)-catalyzed enantioselective hydrogenation.](#) Journal Of The American Chemical Society , 131 (28) pp.9604-9605

Conference or Workshop Item

- 2019 [Synthesis, neuraminidase inhibition assay and molecular docking of carvone derivatives.](#) In: **International Conference in Organic Synthesis (ICOS 2019)**
- 2019 [Protein and toxin profiling at different growth phases of a. Tamiyavanichii and A.Leei.](#) In: **"8th International Conference on Informatics, Environment, Energy and Applications, IEEEA 2019"**
- 2018 [Toxicity profiles between strains of Alexandrium Tamiyavanichii.](#) In: **ISERD-325TH. INTERNATIONAL CONFERENCE ON ENVIRONMENT AND NATURAL SCIENCE (ICENS)**
- 2018 [The near consumer insight on liver proteomics of Malaysian broiler in comparison with indigenous chicken.](#) In: **151st IIER International Conference**
- 2018 [A quest on finding new potential ebola vp40 inhibitors: molecular docking and molecular dynamics simulation studies.](#) In: **Computer-aided Drug Design 2018**
- 2018 [Comparison of the essential oil components in fresh peels of lime \(citrus aurantifolia\) extracted with supercritical fluid extraction and other three traditional extraction methods.](#) In: **International Conference of Analytical Sciences (SKAM31)**
- 2018 [The ethical concerns of bioanalytical chemistry: the case of forensic science.](#) In: **International Conference of Analytical Sciences 2018 (SKAM 31)**
- 2016 [Synthesis and molecular docking of carvone derivatives as a potential neuraminidase inhibitors.](#) In: **International Conference In Organic Synthesis 2016 (ICOS 2016)**
- 2016 [Differential methods of cell lysis for protein profiling of Alexandrium sp. using 2D gel electrophoresis.](#) In: **Medical Research Symposium and Pacific Partnership in Conjunction with Kuantan Research Day 2016**
- 2016 [Ligand based drug discovery of novel dengue-2 NS2B-NS3 protease inhibitors.](#) In: **4th International Conference on Computation for Science and Technology (ICCST 2016)**
- 2015 [Proteomics study on meat quality of Malaysian broilers in comparison with indigenous chicken.](#) In: **5th International Conference on Advancement in Science and Technology (iCAST 2015)**

2013 [Essential oil of Thai basil: natural remedy for urolithiasis?](#). In: **The International Conference on Islamisation in Modern Science and Scientification of the Studies in Islamic Revealed Knowledge**

2010 [Crab and cockle shells as heterogeneous catalysts in the production of biodiesel.](#) In: **4th International Conference on Postgraduate Education (ICPE 4).**

2009 [Synthesis, NMR spectroscopy and crystal structures studies of novel 2-amino-N-\(2-benzyloxy-3-methoxybenzylidene\) aniline.](#) In: **International Conference on Instrumentation, Communications, Information Technology and Biomedical Engineering (ICICI-BME) 2009**

2009 [Synthesis, NMR spectroscopy and crystal structures studies of 2-amino-N-\(2-hydroxy-3-methoxybenzylidene\) aniline.](#) In: **International Conference on Instrumentation, Communications, Information Technology, and Biomedical Engineering (ICICI-BME) 2009**

Book

2013 [Peralatan asas dan aplikasi dalam penyelidikan kimia.](#) Penerbit Universiti Sains Malaysia . ISBN 9789838615730

2011 [Synthesis, characterization and anti-proliferation study of some Benzimidazole derivatives.](#) LAP Lambert Academic Publishing . ISBN 3844332944

Book Section

2011 [Chemical synthesis in general .](#) In: **Research Methodology in Chemistry** IIUM Press . ISBN 978-967-418-202-1 , pp.11-16

2011 [Design and methodology .](#) In: **Research Methodology in chemistry** IIUM Press . ISBN 978-967-418-202-1 , pp.17-23

2011 [Instrumentations for chemical analysis.](#) In: **Research Methodology in Chemistry** IIUM Press . ISBN 978-967-418-202-1 , pp.24-28

2011 [Separation and purification methods.](#) In: **Research Methodology in Chemistry** IIUM Press . ISBN 978-967-418-202-1 , pp.29-35