

# MOHD HAMZAH BIN MOHD NASIR



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
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## ACADEMIC QUALIFICATION

- Ph.D in Life Sciences
- Master of Biotechnology and Bioinformatics
- Health Science (Honours) in Biomedicine
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## TEACHING RESPONSIBILITIES

BIOTECHNOLOGY, LAW AND ETHICS	2019/2020 2020/2021
CELL BIOLOGY	2018/2019 2019/2020
GENETICS	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
HAEMATOLOGY AND ONCOLOGY	2010/2011
IMMUNOLOGY	2020/2021
INSTRUMENTATION IN BIOTECHNOLOGY RESEARCH	2016/2017 2018/2019 2019/2020
INTRODUCTORY MICROBIOLOGY	2015/2016
MEDICAL BIOTECHNOLOGY	2015/2016 2016/2017 2018/2019
MOLECULAR BIOLOGY	2010/2011
PRINCIPLES OF MICROBIOLOGY	2015/2016 2016/2017
PRINCIPLES OF CELL BIOLOGY	2015/2016 2016/2017 2017/2018
REGULATION AND ETHICS IN BIOTECHNOLOGY	2019/2020

## RESEARCH PROJECTS

### In Progress

**2019 -  
Present**

Mentoring Alfaisal University SPIRIT Program Students

- 2019 - Present** Uji Toksisitas akut SNEDDS ekstrak Pegagan (*Centella asiatica*.L) dan SNEDDS ekstrak daun kangkung pada embrio ikan zebra (*Danio Rerio*)
- 2019 - Present** The mechanism of action of EPS from *G. lucidum* as  $\beta$ -glucosidase inhibitors and to identify its role in the regulation of blood glucose level
- 2019 - Present** Development of smart wound dressing functionalized PCL/graphene oxide (PCL/GO) nanofibers for potential wound healing.
- 2018 - Present** Bacteria-surface interaction of chemically modified Polycaprolactone/Chitosan nanofibers as the antimicrobial application.
- 2018 - Present** Bacteria-surface interaction of chemically modified Polycaprolactone/Chitosan nanofibers as the antimicrobial application.
- 2017 - Present** Development of Effective Microbes for Decomposition Process
- 2017 - Present** Conversion of Waste from Fish and Aquaculture Industry into Value-added Products
- 2015 - Present** Fungal-Assisted Composting (FAC) Approach of Organic Waste
- 2015 - Present** Investigation of Harmful Heavy Metals in Shellfishes Using Magnetic Nanoparticles (MNPS)

#### Completed

- 2018 - -1** Mentoring Six Spirit Scholarship Students for Their Summer Research Training Program at Faculty of Pharmacy
- 2015 - 2018** Fungal-Assisted Composting (FAC) Approach of Organic Waste
- 2015 - 2020** Investigation of Harmful Heavy Metals in Shellfishes Using Magnetic Nanoparticles (MNPS)

## PUBLICATIONS

### Article

- 2020** [Apa yang berlaku pada tubuh apabila berlaku jangkitan SARS-CoV-2 ?](#). Majalah Sains
- 2020** [COVID 19: Kit ujian antigen atau kit ujian antibodi](#). Majalah Sains
- 2020** [Ikan Zebra \(\*Danio rerio\*\) : bintang baharu model haiwan penyelidikan bioperubatan](#). Majalah Sains
- 2020** [Kit Ujian Pantas COVID-19 IgG/IgM](#). Majalah Sains
- 2019** [The effect of oral probiotic \*Streptococcus salivarius\* K12 on \*Candida albicans\* biofilm formation](#). IIUM Medical Journal Malaysia (IMJM) , 18 (Supplementary Issue 2)

- 2019** [S-quinolin-2-yl-methyldithiocarbamate-based magnetic adsorbent for magnetic solid-phase extraction of heavy metals from water samples.](#) International Journal of Environmental Analytical Chemistry
- 2019** [Antioxidant and cytotoxic effects of Curcuma mangga and Bosenbergia rotunda ethanolic extracts on MCF-7 cancer cell lines.](#) Science Heritage Journal (GWS) , 3 (2) pp.10-14
- 2019** [Composting of food waste and its product performance on ipomoea aquatica.](#) International Journal of Allied Health Sciences , 3 (3: Special Issue: Research Towards Sustainable Development Goals) pp.818
- 2018** [The effect of aqueous extracts of Nigella sativa on breast cancer cell line MCF-7: An in vitro study.](#) Science Heritage Journal | Galeri Warisan Sains (GWS) , 2 (1) pp.13-17
- 2017** [In vitro evaluation of porcupine bezoar extracts as anticancer agent on A549 -A preliminary study.](#) Advances in Biotechnology and Microbiology , 5 (1) pp.1-8
- 2012** [Effects of different methods of slaughtering on protein expression in chicken meat](#) . IIUM Engineering Journal , 13 (1) pp.27-33

#### **Conference or Workshop Item**

- 2019** [Composting of food waste and its product performance on Ipomoea aquatica.](#) **In: Kuantan Research Day 2019**
- 2019** [The effect of Pegagan ethanolic extract \(Centella asiatica L\) self-nanoemulsifying drug delivery system \(SNEDDs\) in the development of Zebrafish embryos \(Danio rerio\).](#) **In: International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**
- 2019** [Activation of endothelial cells and its potential involvement in blood-brain barrier damage in cerebral malaria: an in vitro study.](#) **In: The 2nd International Postgraduate Symposium In Biotechnology 2019 (IPSB)**
- 2018** [Dithiocarbamate-immobilized silica coated magnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles for solid-phase extraction of lead in shellfish.](#) **In: International Conference of Analytical Sciences (SKAM31)**
- 2012** [Alterations in the endothelial cells of the blood-brain barrier in cerebral malaria.](#) **In: British Society for Parasitology Spring Meeting and Trypanosomiasis and Leishmaniasis Seminar**

#### **Book Book Section**