

MARDIANA MOHD. ASHAARI



- KULLIYAH OF SCIENCE
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ACADEMIC QUALIFICATION

- Ph.D in Environmental Genomics
- Master of Science in Bioinformatics
- Bachelor of Biotechnology (Hons.)

TEACHING RESPONSIBILITIES

BIOINFOMATICS	2015/2016 2016/2017 2017/2018 2018/2019
BIOREMEDIATION	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
ENVIRONMENTAL BIOTECHNOLOGY	2008/2009 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
ENVIRONMENTAL TOXICOLOGY/ POLLUTION	2016/2017 2017/2018 2018/2019 2019/2020
ENVIRONMENTAL TOXICOLOGY/POLLUTION	2015/2016
INTRODUCTION TO BIOINFORMATICS	2015/2016
MOLECULAR AND CELL BIOLOGY	2008/2009
NATURAL RESOURCE MANAGEMENT IN BIOTECHNOLOGY	2017/2018 2018/2019
SOIL MICROBIOLOGY	2016/2017

RESEARCH PROJECTS

In Progress

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| 2019 - Present | Investigation on production of biosurfactants and their effect on the molecular interactions of polycyclic aromatic hydrocarbons with ring hydroxylating dioxygenase during biodegradation |
| 2019 - Present | Assessment on suitable hydrocolloids for probiotic encapsulation enhancing its viability and stability |
| 2016 - Present | Expressed sequence tags (ESTs) of genes involved in flowering of <i>Stevia rebaudiana</i> |

2015 - Present Understanding the Contributions and Mechanisms of Plant Growth Promoting Rhizobacteria (PGPR) for Production of Stevioside and Rebaudioside A in Stevia Rebaudiana Accession Bertam

Completed

2016 - 2019 Expressed sequence tags (ESTs) of genes involved in flowering of Stevia rebaudiana

2015 - 2018 Understanding the Contributions and Mechanisms of Plant Growth Promoting Rhizobacteria (PGPR) for Production of Stevioside and Rebaudioside A in Stevia Rebaudiana Accession Bertam

2015 - 2019 Fundamental Study of the Structure of the Glycerol-3-Phosphate Acyltransferase (GPAT) Protein from Chlorella Sp. on Understanding the Mechanism of Lipid Synthesis

PUBLICATIONS

Article

2018 [Isolation and characterization of hydrocarbon tolerant microorganisms from marine environment.](#) International Journal of Integrated Engineering , 10 (6) pp.133-138

2018 [Opportunistic bacteria dominate the soil microbiome response to phenanthrene in a microcosm-based study.](#) Frontiers in Microbiology , 9 pp.1-13

2018 [Isolation and screening of biosurfactant-producing marine bacteria from Kuantan Port, Pahang, Malaysia.](#) Science Heritage Journal , 2 (2) pp.21-26

2017 [Benzo\(a\)pyrene degradation and microbial community responses in composted soil.](#) Environmental Science and Pollution Research , 24 (6) pp.5404-1

2017 [Isolation and characterization of biosurfactant-producing bacteria isolated from petroleum contaminated sites with the potential to be used in bioremediation.](#) Science Heritage Journal / Galeri Warisan Sains (GWS) , 1 (2) pp.11-15

2014 [Microbial community structure during fluoranthene degradation in the presence of plants.](#) Journal of Applied Microbiology , 117 pp.74-84

2010 [Antibiotic resistance microbes in tropical mangrove sediments, East Coast Peninsular, Malaysia.](#) African Journal of Microbiology Research , 4 (8) pp.640-645

Conference or Workshop Item

2018 [Association of biosurfactant production by indigenous bacteria isolated from petroleum contaminated soil with total petroleum hydrocarbon degradation.](#) In: **34th Symposium of The Malaysian Society for Microbiology 2018**

2017 [Isolation and identification of chlorella-like species for potential application in biofuel production.](#) In: **9th Asian Federation of Biotechnology(AFOB) Regional Symposium 2017**

2015 [Mining of ring-hydroxylating dioxygenase genes from PAH contaminated soil metagenome.](#) In: **ASIAN Congress on Biotechnology 2015**

2010 [Metagenomics of polycyclic aromatic hydrocarbon \(PAH\) contaminated soil.](#) In:
International Conference on Environment (ICENV 2010)

Book
Book Section