

SUHAILA BT. MOHD. OMAR



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
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ACADEMIC QUALIFICATION

- Doctor of Philosophy (Biotechnology)
- Master of Technology (Environmental Management)
- Bachelor of Science (Biotechnology with Management)

TEACHING RESPONSIBILITIES

BIODIVERSITY	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
BIOFERTILIZERS	2016/2017
BIOPROCESS I	2007/2008
BIOTECHNOLOGY, LAW AND ETHICS	2016/2017 2017/2018 2018/2019 2019/2020
CHEMISTRY & BIOCHEMISTRY OF NATURAL PRODUCTS	2007/2008
ENVIRONMENTAL BIOTECHNOLOGY	2007/2008 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
ENVIRONMENTAL MICROBIOLOGY	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
NATURAL RESOURCE MANAGEMENT IN BIOTECHNOLOGY	2017/2018 2018/2019
ORGANIC CHEMISTRY	2007/2008
PROJECT SEMINAR	2007/2008
WASTE MANAGEMENT	2007/2008
WASTE MANAGEMENT AND USAGE	2007/2008 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020

RESEARCH PROJECTS

In Progress

- 2017 - Present** In Situ Enzymatic Saccharification of Seawater Pretreated Lignocellulosic by Using Setiu Wetland Halophilic Fungi (SeHF)
- 2017 - Present** Process Development in Simultaneous Saccharification and Co-Fermentation (SSCF) of Monosaccharide Sugars from Jatropha Curcas Seed Cake for Optimum Bioethanol Production
- 2017 - Present** Development of Effective Microbes for Decomposition Process
- 2017 - Present** Conversion of Waste from Fish and Aquaculture Industry into Value-added Products
- 2016 - Present** The screening of xylanase from Kuantan mangrove actinomycetes
- 2015 - Present** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - Present** Fungal-Assisted Composting (FAC) Approach of Organic Waste
- 2015 - Present** Sponge-associated fungal diversity with functional analysis of halogenase and cellulase

Completed

- 2015 - 2017** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - 2018** Fungal-Assisted Composting (FAC) Approach of Organic Waste
- 2014 - 2016** The Screening for Potential Xylan, Cellulose and Lignin Biodegradation Activities from Microbial Communities in the South East Pahang Peat Swamp Forest Sediment and Peat Water
- 2014 - 2018** Microbial Diversity of Pekan Peat Swamp Forest Soil and their Functional Potential Through Cultivation and Metagenomic Approach

PUBLICATIONS

Article

- 2018** [Islamic ethics of waste management towards sustainable environmental health.](#) The International Medical Journal Malaysia , 17 (Special Issue 1) pp.193-197
- 2018** [The ethical significance of antibiotic resistance towards aquaculture practices.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.295-301
- 2017** [Verrucosipora sp. K2-04, Potential Xylanase Producer from Kuantan Mangrove Forest Sediment.](#) International Journal of Food Engineering , 3 (2) pp.165-168
- 2017** [High quality DNA from peat soil for metagenomic studies: A minireview on DNA extraction methods.](#) Science Heritage Journal pp.1-6

- 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
- 2016 [Biotechnological potential of Kuantan mangrove actinomycete, Micromonospora K3-13.](#) The International Medical Journal Malaysia , 15 (Supplement Issue) pp.108-108
- 2016 [Screening of ligninase-producing bacteria from south east Pahang peat swamp forest soil.](#) Malaysian Journal of Microbiology , 12 (6) pp.433-437
- 2016 [Comparison of various culture media effectiveness in the isolation of bacteria from Pekan peat swamp forest soil.](#) Malaysian Journal of Microbiology , 12 (6) pp.450-454
- 2015 [A new broad specificity alkaline metalloprotease from a Pseudomonas sp. isolated from refrigerated milk: role of calcium in improving enzyme productivity.](#) Journal of Molecular Catalysis B: Enzymatic (113) pp.1-8
- 2015 [Isolation of bacteria from the acidic peat swamp forest soil and their lignin degradation potential.](#) Jurnal Teknologi , 77 (24) pp.77-81
- 2011 [Biotechnological uses of enzymes from psychrophiles.](#) Microbial biotechnology , 4 (4) pp.449-460

Conference or Workshop Item

- 2018 [The uncultivated majority of peat swamp bacterial and archaeal communities.](#) In: **34th Symposium of the Malaysian Society for Microbiology 2018**
- 2017 [Verrucospora sp. K2-04, potential xylanase producer from Kuantan Mangrove Forest sediment.](#) In: **2017 SEOUL Conference**
- 2015 [Isolation of bacteria from acidic peat swamp forest soil and their lignin degradation potential.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2015) - 'Frontiers in Biotechnology'**
- 2015 [Screening for ligninase-producing bacteria from South East Pahang peat swamp forest soil.](#) In: **International Congress of the Malaysian Society of Microbiology (Microbiology Meeting the needs of a changing world held 7-10 December 2015,**
- 2015 [Comparison of different AGAR plates used in the isolation of bacteria from Pekan peat SWAMP forest soil.](#) In: **International Congress of the Malaysian Society for Microbiology 2015 (7-10 December 2015) hosted in Bayview Beach resort, Penang, Malaysia**

Book

Book Section

- 2006 [Biodiversity and marine biotechnology: a new era for the development of biotechnology industry.](#) In: **Management and status of resources in protected areas of Peninsular Malaysia, series 1** Department of Wildlife and National Parks Peninsular Malaysia . ISBN 9834301006 , pp.67-74