

# NOOR FAIZUL HADRY BIN NORDIN



- INTERNATIONAL INSTITUTE FOR HALAL RESEARCH AND TRAINING
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## KELAYAKAN AKADEMIK

- Doctor of Philosophy
- Master of Science
- Bachelor of Science (Industrial Biotechnology) (Honours)

## TANGGUNGJAWAB MENGAJAR

ANALYTICAL METHODS FOR FUNCTIONAL FOODS AND NUTRACEUTICALS	2006/2007
BIOINFORMATICS	2014/2015
BIOREMEDIATION	2005/2006 2006/2007 2007/2008 2013/2014 2014/2015
BIOTECHNOLOGY ENGINEERING LAB IV	2015/2016 2016/2017 2017/2018
ENVIRONMENTAL BIOTECHNOLOGY	2004/2005 2005/2006 2006/2007 2012/2013 2013/2014
ENVIRONMENTAL ENGINEERING	2017/2018
ENVIRONMENTAL MICROBIOLOGY	2007/2008 2012/2013 2013/2014 2014/2015
ENZYMولوجY	2006/2007
FATS AND OILS CHEMISTRY AND TECHNOLOGY	2006/2007 2007/2008
FINAL YEAR PROJECT	2005/2006 2006/2007
FINAL YEAR PROJECT II	2005/2006
FOOD CHEMISTRY	2006/2007
FOOD PROCESS ENGINEERING	2007/2008
GENOMICS AND FUNCTIONAL GENOMICS	2014/2015
HALAL INDUSTRY AND ADVANCED TECHNIQUE ANALYSIS	2019/2020 2020/2021
HALAL INDUSTRY AND ADVANCED TECHNIQUES ANALYSIS	2018/2019 2019/2020

HALAL&HARAM IN FOOD INGREDIENTS & PROCESSING	2006/2007
INTRODUCTION TO BIOINFORMATICS	2004/2005 2005/2006 2006/2007 2012/2013 2013/2014 2014/2015
INTRODUCTION TO ENVIRONMENTAL ENGINEERING	2015/2016 2016/2017 2017/2018
NATURAL RESOURCES MANAGEMENT	2004/2005 2005/2006
PROTEIN BIOTECHNOLOGY	2006/2007
SUSTAINABLE DEVELOPMENT: ISSUES, POLICIES AND PRACTICES	2020/2021
WASTE MANAGEMENT AND USAGE	2006/2007
WASTEWATER RECLAMATION AND REUSE	2015/2016

## PROJEK PENYELIDIKAN

### In Progress

<b>2020 - Present</b>	The Effectiveness of EM Mudball in Remediating Balok River
<b>2020 - Present</b>	Taiwan-INHART Halal Certification Authority (TIHCA)
<b>2019 - Present</b>	Establishing zebrafish nutritional requirements in protein-to-carbohydrate ratio, as an animal model for farm fish nutrition and growth studies: Effects on fish growth, health and gut microbiota.
<b>2019 - Present</b>	Geo-tourism Destination (GTD) Framework Based on Sustainable Development Goals and Maqasid Shariah
<b>2019 - Present</b>	A hybrid system of microbial electrolysis cell and anaerobic digestion for high content of biomethane production
<b>2018 - Present</b>	Insight Analysis of Current Aquaculture Farming Practice Towards Incorporating Green and Shariah Compliant Elements
<b>2018 - Present</b>	Understanding Current Aquaculture Farming Practice Towards Incorporating Green and Shariah Compliant Elements
<b>2018 - Present</b>	Collagen-Like Protein from Selected Bacteria as Alternative For Non-Halal Collagen
<b>2018 - Present</b>	Understanding the distribution of chlorinated hydrocarbon dioxygenases in landfill sites using functional metagenomics for bioremediation.
<b>2015 - Present</b>	The Comprehensive Study on Al-Jallalah Animals and Its Impact on Malaysian Aquaculture Industry

<b>2014 - Present</b>	Development of In-Vitro Oxidative Potential Assessment Model for Indoor and Outdoor Airborne Particulate Matter (PM) within an Industrial Area
<b>Unknown - Present</b>	ESTABLISHING NURSERY AND SOCIAL ENTERPERISE FOR MALAYSIA RARE FRUIT TREES SEEDLING TO EMPOWER THE INDIGENOUS PEOPLE OF KAMPUNG SUNGAI DUA OLAK, PAHANG
<b>Unknown - Present</b>	ASSESSMENT AND REHABILITATION OF SUNGAI PUSU BY BIO-NANOTECHNOLOGY APPROACH FOR WATER QUALITY IMPROVEMENT
<b>Unknown - Present</b>	Insight Analysis of Solid Waste Management during covid-19 Pandemic in Malaysia using Life Cycle Assessment (LCA)
<b>Completed</b>	
<b>2020 - 2020</b>	Taiwan-INHART Halal Certification Authority (TIHCA)
<b>2016 - 2020</b>	Functional Genomics and Culture-Based Analysis of Bacteria Capable of Degrading Xenobiotic Compounds in Landfill Leachate
<b>2015 - 2019</b>	The Comprehensive Study on Al-Jallalah Animals and Its Impact on Malaysian Aquaculture Industry
<b>2015 - 2016</b>	The Effect of Monsoon on Fish Larval (Ichthyoplankton Stages) Assemblage Changes in Kuantan River
<b>2015 - 2018</b>	Characterization of Halal and Non-Halal Animal Bones As Raw Material for Gelatin and Gelatin Based Products
<b>2015 - 2016</b>	Impacts Assessment of Flood on Nutrients, Micro-communities and Fish Growth in the Kuantan River for a Proper Management
<b>2014 - 2016</b>	Biotransformation Of Artemisinin And Asiaticoside: Malaysian Tropical Plant Phytochemicals
<b>2014 - 2016</b>	Airborne Particulate Matters And Microorganisims In Library: An Introduction Of Disinfection Method Towards Safe And Health Indoor Environment
<b>2014 - 2018</b>	Development of In-Vitro Oxidative Potential Assessment Model for Indoor and Outdoor Airborne Particulate Matter (PM) within an Industrial Area
<b>2013 - 2017</b>	Understanding rhizospheric plant-microbe interactions for phytoremediation of dioxin contaminated soil
<b>2013 - 2017</b>	Enhanced-Microbial Bioremediation of PCBs and Dioxins in Landfill Leachate Using Burkholderia xenovorans LB400 With Altered-sigma-54 Regulatory System
<b>2013 - 2015</b>	Genetic Variation and DNA Barcoding of Endangered Fishes in Pahang River
<b>2013 - 2015</b>	Study on Properties and Composition of Live Rocks towards Potential Artificial Reef for Marine Habitat Restoration
<b>2012 - 2016</b>	Modelling of longitudinal changes in bacterial community structure towards physico chemical and environmental factors along the Pahang river
<b>2010 - 2013</b>	Sigma subunit-Dependent adaptation of physiology and metabolic functions in burkholderia for effective bioremediation process

- 2007 - 2010** Study on Microbial Ecology of the Coastal Water Langkawi
- 2006 - 2008** Systematics of Sea Cucumbers of the Genus *Holothuria* (Aspidochirotida: Holothuriidae) and Phylogeography in *H. leucospilota* based on the Cytochrome-b Gene
- 2006 - 2012** Studies on Mangrove in Pulau Toba, Langkawi
- 2005 - 2007** Physico-Chemical Characteristics and Sediment Environment of the Coastal Water, Pulau Tuba and its Nearby Islands, Langkawi

## PENERBITAN

### Article

- 2020** [Optimisation of the maillard reaction of bovine gelatine-xylose model using response surface methodology.](#) Food Research , 4 pp.99-106
- 2020** [Discovery of cold-active protease from psychrophilic bacteria isolated from Antarctic region for bio-prospecting.](#) Malaysian Applied Biology , 49 (1) pp.55-60
- 2020** [Potential food additive of \*Boswellia carterii\* essential oil encapsulated within gum Arabic: a particle size distribution and zeta potential analysis.](#) Food Research , 4 (Supplementary 2) pp.19-23
- 2020** [Optimisation of the Maillard reaction of bovine gelatine-xylose model using response surface methodology.](#) Food Research , 4 ((Suppl. 1) (2020)) pp.99-106
- 2019** [Microencapsulated frankincense essential oil: a potential remedy and prevention of mouth diseases.](#) Malaysian Journal of Medicine and Health Science , 15 (Supplement 8) pp.22-22
- 2019** [Microbial hydrolytic enzymes: In silico studies between polar and tropical regions.](#) Polar Science , 20 (part 1) pp.9-18
- 2018** [Bacterial population study in oil-contaminated and uncontaminated soils.](#) Journal Clean WAS (JCleanWAS) , 2 (2) pp.6-9
- 2018** [Diversity and community composition of fishes in the Pusu River Gombak, Malaysia.](#) Journal of Coastal Research , Special Issue 82 Fall pp.150-155
- 2017** [Bio-monitoring selected heavy metal concentration in \*Nerita\* sp. collected from Tanjung lumpur mangrove forest..](#) Environment and Ecosystem science , 1 (1) pp.4-7
- 2017** [PCB biodegradation using bacteria isolated from landfill leachate.](#) Science Heritage Journal , 1 (2) pp.7-10
- 2017** [The concept and component of contaminated animals \(Al-Jallalah Animals\).](#) International Food Research Journal (IFRJ) , 24 (Suppl.) pp.S436-S440
- 2017** [Rhizospheric cymbopogon citratus-staphylococcus succinus interactions for phytoremediation of dibenzofuran contaminated soil.](#) Asia Pacific Journal of Molecular Biology and Biotechnology , 25 (1) pp.1-5

- 2017** [Comparative study on spoilage and pathogenic bacteria in selected commercial marine and freshwater fishes.](#) International Food Research Journal (IFRJ) , 24 (Suppl.) pp.S298-S304
- 2017** [Taxonomic status of Euphylliidae corals in Peninsular Malaysia based on morphological structures and phylogenetic analyses using Mitochondrial COI Gene1.](#) Russian Journal of Marine Biology , 43 (2) pp.118-126
- 2017** [Taxonomic status of Euphylliidae corals in Peninsular Malaysia based on morphological structures and phylogenetic analyses using mitochondrial COI gene.](#) Russian Journal of Marine Biology , 43 (2) pp.118-126
- 2016** [Flooding impact on distribution of pathogenic bacteria in Pahang River.](#) The International Medical Journal of Malaysia , 15 (Supplement Issue) pp.11-11
- 2016** [Observations on nudibranch behaviour patterns under laboratory conditions.](#) Jurnal Teknologi , 78 (11) pp.167-171
- 2016** [Fatty acids as biological markers for symbiotic bacteria in Phyllidia varicosa and Phyllidiella pustulosa.](#) Malaysian Applied Biology , 45 (2) pp.23-28
- 2015** [Indoor microbial contamination and its relation to physical indoor air quality \(IAQ\) characteristics at different laboratory conditions.](#) Jurnal Teknologi , 77 (24) pp.39-44
- 2015** [The potential of artificial live rock as substrate for coral spat and epibenthic organisms.](#) Jurnal Teknologi , 77 (25) pp.25-29
- 2015** [Indoor microbial contamination and its relation to physical indoor air quality characteristics at selected libraries in pahang.](#) Jurnal Teknologi , 77 (24) pp.51-56
- 2015** [Isolation and identification of rhizospheric bacteria associated with lemongrass for potential bioremediation.](#) Jurnal Teknologi , 77 (24) pp.57-63
- 2015** [Indoor microbial contamination through water mist aerosol at public restaurants.](#) Jurnal Teknologi , 77 (24) pp.45-50
- 2015** [Diversity and distribution of euphyllidae corals in tioman island: Emphasis on the genetic variation of euphyllia cristata.](#) Jurnal Teknologi , 77 (24) pp.17-22
- 2015** [Identification and phylogenetic inference in different molluscs nudibranch species via mitochondrial 16S rDNA.](#) Brazilian Journal of Biological Sciences , 2 (4) pp.295-302
- 2015** [Spatial and temporal distribution of bacterial communities and heavy metals \(CR, CD AND PB\) composition in sediments along Pahang river, Malaysia.](#) Jurnal Teknologi , 77 (24) pp.71-76
- 2014** [Carotenoid contents in anoxygenic phototrophic purple bacteria, Marichromatium Sp. and Rhodopseudomonas Sp. of tropical environment, Malaysia .](#) Oriental Journal of Chemistry , 30 (2) pp.607-613
- 2014** [Microbial population in the coelomic fluid of stichopus chloronotus and holothuria \(mertensiothuria\) leucospilota collected from Malaysian waters = Populasi Mikrob dalam Cecair Selom Stichopus chloronotus dan Holothuria \(Mertensiothuria\) leucospilota dari Perairan Malaysia.](#) Sains Malaysiana , 43 (7) pp.1013-1021

- 2012 [Studies on water quality and pathogenic bacteria in coastal water Langkawi, Malaysia.](#) Journal of Environmental Biology , 33 (4) pp.831-835
- 2010 [Coral reef sea cucumbers in Malaysia.](#) SPC Beche-de-mer Information Bulletin , 30 pp.49
- 2009 [Studies on physico-chemical characteristics and sediment environment along the coastal waters Pulau Tuba, Langkawi Malaysia.](#) Aquatic Ecosystem Health and Management (AEHMS) , 12 (4) pp.350-357
- 2009 [Coral reef sea cucumbers in Malaysia.](#) Malaysian Journal of Science , 28 (2) pp.171-186

#### Conference or Workshop Item

- 2019 [The implementation of Asean GAqP in overcoming Al-Jallalah related issues; with the focus on shariah-compliant and sustainability elements.](#) In: **International Symposium on Research in Innovation and Sustainability (Isoris) 2019**
- 2016 [Understanding of rhizospheric Cymbopogon citratus-Saphylococcus succinus interactions for phytoremediation of dibenzofuran contaminated soil.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2015 [DNA barcoding of selected endangered and commercial fishes of Pahang river.](#) In: **International Conference of Clean Water, Air & Soil (CleanWAS 2015)**
- 2015 [Isolation and identification of rhizospheric bacteria associated with lemongrass for bioremediation of dibenzofuran contaminated soil.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2015)**
- 2015 [DNA barcoding of selected endangered species of Pahang river.](#) In: **International Fisheries Symposium (IFS 2015)**
- 2015 [DNA barcoding of pomfret in Peninsular Malaysia.](#) In: **International Fisheries Symposium (IFS 2015)**
- 2010 [Human pathogenic bacteria in sea fish - siakap \(SEA PERCH, lates calcarifer\) and ikan merah \(RED SNAPPER, Lutjanus sanguineus.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2008 [Phylogenetics of sea cucumbers in Malaysia based on Mitochondrial DNA.](#) In: **19th Intersarsity Biochemistry Seminar**
- 2008 [Microbial population in the Coelomic fluids of local sea cucumbers and their antimicrobial-resistance capabilities.](#) In: **19th Intersarsity Biochemistry Seminar**
- 2008 [Ossicle shapes and mitochondrial DNA profiles of holothuria and stichopus species.](#) In: **19th Intersarsity Biochemistry Seminar**
- 2006 [Genetic Variation among Sea Cucumbers \(Echinodermata: Holothuroidea\) in Malaysia as inferred from 16S Mitochondrial rRNA Gene.](#) In: **9th A-IMBN Conference & 16th MSMBB Scientific Meeting**

#### Book Book Section

- 2020** [Artificial sensory techniques for halal authentication.](#) In: **Contemporary issues on Halal development in Indonesia (Contribution from UB-International Halal Festival 2019)** Global Science . ISBN 9786237442127 , pp.103-117
- 2011** [Genetic manipulation for better bioremediation processes .](#) In: **Biotechnologies towards sustainable development in Malaysia** IIUM Press . ISBN 9789674182007 , pp.50-63
- 2011** [Microbial bioremediation and sustainable development .](#) In: **Biotechnologies towards sustainable development in Malaysia** IIUM Press . ISBN 9789674182007 , pp.64-73
- 2011** [Analysis of xylene degradation by bacteria isolated from petroleum contaminated sites .](#) In: **Biotechnologies towards sustainable development in Malaysia** IIUM Press . ISBN 9789674182007 , pp.203-207
- 2009** [Studies of Physio-chemical characteristics and sediment environment along the coastal waters Pulau Tuba, Langkawi.](#) In: **Proceedings of the Seminar on Research Findings 2008** IIUM Press . ISBN 9789833855780 , pp.463-473
- 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