

# AHMED JALAL KHAN CHOWDHURY



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## المؤهل العلمي

- Ph.D in Aquaculture Biotechnology
- Master in Fish Biology
- Bachelor of Art in Fisheries

## مسؤوليات التدريس

|                                  |   |
|----------------------------------|---|
| AQUACULTURE                      | 2008/2009 2009/2010 2010/2011 2012/2013<br>2013/2014 2014/2015 2015/2016 2016/2017  |
| BIODIVERSITY                     | 2004/2005 2005/2006 2006/2007 2007/2008<br>2008/2009 2009/2010 2010/2011 2011/2012<br>2012/2013 2013/2014 2014/2015 2015/2016 |
| BIOTECHNOLOGY, LAW AND ETHICS    | 2004/2005 2005/2006 2006/2007 2007/2008<br>2009/2010  |
| ECOLOGICAL AQUACULTURE           | 2018/2019 2019/2020 2020/2021   |
| ENVIRONMENTAL IMPACTS ASSESSMENT | 2015/2016 2016/2017 2018/2019 2019/2020<br>2020/2021  |
| ENVIRONMENTAL LAWS AND POLICIES  | 2004/2005 2006/2007   |
| ENVIRONMENTAL MICROBIOLOGY       | 2005/2006 2006/2007 2008/2009 2009/2010<br>2011/2012  |
| ENVIRONMENTAL SCIENCE            | 2014/2015 2016/2017 2017/2018 2018/2019<br>2019/2020 2020/2021  |
| Ecological Aquaculture           | 2017/2018   |
| INTRODUCTORY MICROBIOLOGY        | 2003/2004 2004/2005 2007/2008 2008/2009   |
| INTRODUCTORY TO MICROBIOLOGY     | 2002/2003   |
| MARINE BIOLOGY                   | 2007/2008 2008/2009 2009/2010 2010/2011   |
| NUTRITION AND FEEDING            | 2016/2017   |
| PROJECT SEMINAR                  | 2018/2019 2019/2020   |
| RESEARCH METHODOLOGY             | 2004/2005 2005/2006 2006/2007 2007/2008<br>2008/2009 2009/2010 2010/2011  |

## المشاريع البحثية

**In Progress**

- 2018 - Present** DNA Barcoding and Molecular Phylogenetics of Sharks in Malaysia
- 2018 - Present** Environmental DNA Metabarcoding of Fishes in Balok River Kuantan, Pahang
- 2016 - Present** Fisheries Conservation Towards Sustainable Development In Tropical Environment
- 2016 - Present** Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
- 2015 - Present** Captive Breeding and Induced Fertilization of Malaysian Horseshoe crab (Tachypleus gigas) for Sea Ranching and Future Artificial Sanctuary
- 2015 - Present** Bacterial-Assisted Composting (BAC) of Food Waste
- 2013 - Present** Production of Non-Thermally Processed Alternative Ingredients for Halal Food Products
- 2004 - Present** Functional Food and Nutraceuticals Research Unit (FFNRU)
- Unknown - Present** Environmental Determinants Influencing Fish Community Structure and Seasonal Diversity IN TROPICAL ESTUARY, KUALA PAHANG, MALAYSIA
- Unknown - Present** INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER
- Unknown - Present** INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER
- Unknown - Present** Profiling fatty acids and mineral composition of Antarctic microalgae and their potential application in fish nutrition

**Completed**

- 2016 - 2018** Stereospermum Fimbriatum (Chicha) - Prospects of Antimicrobial Agent for Skin Infection
- 2016 - 2018** Species Diversity and Seasonal Distribution of Fishes and Water Quality in Tropical River, Pahang, Malaysia
- 2016 - 2017** Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
- 2016 - 2018** Fisheries Conservation Towards Sustainable Development In Tropical Environment
- 2016 - 2018** Species Inventory and Genetic Diversity of Fishes in Kuantan River Basin

- 2015 - 2018** Captive Breeding and Induced Fertilization of Malaysian Horseshoe crab (*Tachypleus gigas*) for Sea Ranching and Future Artificial Sanctuary
- 2015 - 2017** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - 2016** The Effect of Monsoon on Fish Larval (Ichthyoplankton Stages) Assemblage Changes in Kuantan River
- 2014 - 2017** Pilot Study on the River Rehabilitation of Sg. Pusu
- 2014 - 2016** DNA Barcoding of Selected Commercial Fishes in Pahang River
- 2014 - 2018** Microbial Diversity of Pekan Peat Swamp Forest Soil and their Functional Potential Through Cultivation and Metagenomic Approach
- 2014 - 2018** Indoor Air Quality in Urban Child Care Institution (Nurseries & Kindergarten): The Characterization of Particulate Matter (PM) and Its Relation to Airborne Enteric Microorganisms
- 2013 - 2016** Screening of Mangrove Actinomycetes and Their Antimicrobial Potentials
- 2013 - 2015** Genetic Variation and DNA Barcoding of Endangered Fishes in Pahang River
- 2013 - 2015** Development of Adsorbent Materials from Selected Local Fruit Waste
- 2013 - 2016** Study on the Contamination of *Najs Mutawassitah* in Fish and Water of Kuantan River
- 2013 - 2018** Production of Non-Thermally Processed Alternative Ingredients for Halal Food Products
- 2012 - 2014** Growth and Survival of Malaysian Sport Fish *Tor tambroides* Fry by Applying Phototropic Bacteria as Feed Supplement.
- 2012 - 2015** Heavy metal and Antibiotic Resistance of the Bacterial Flora in Sediments of Coastal Water of Pahang, Malaysia
- 2012 - 2016** Modelling of longitudinal changes in bacterial community structure towards physico chemical and environmental factors along the Pahang river
- 2011 - 2014** (RU2011) Isolation, diversity, and antimicrobial screening of actinomycetes isolated from mangrove sediments in Tanjung Lumpur, Pahang
- 2011 - 2012** KVC Book Project 2011- Sustainable Utilization of Malaysian Agrowaste
- 2011 - 2013** (RU2011) Isolation, diversity, and antimicrobial screening of actinomycetes isolated from mangrove sediments in Tanjung Lumpur, Pahang
- 2011 - 2012** Diversity and Distribution of Plankton Communities in Kuantan, Pahang
- 2010 - 2011** Extraction and Characterization of Chitin and Chitosan Contents from Local Squid(s) and Tilapia Fish Scales
- 2010 - 2013** Chemoenzymatic Conversion of  $\omega$ -fatty acids extracted from Malaysian Giant Snakehead and catfish

- 2010 - 2013** Sigma subunit-Dependent adaptation of physiology and metabolic functions in burkholderia for effective bioremediation process
- 2010 - 2012** DNA Barcoding Of Horse Shoe Crab, Carcinoscopus Rotundicauda And Tachypleus Gigas From Coastal Water Malaysia
- 2010 - -1** Extraction and Characterization of Chitin and Chitosan Contents from Local Squid(s)and Tilapia Fish Scales
- 2009 - 2010** Bioaccumulation of heavy metal in Mangrove Crabs and Mollusks of Penor and Kuantan river,Pahang
- 2009 - 2010** Environmental Impact of Antibiotic Resistance Transposed from Genetically Modified Organism to soil Bacteria
- 2009 - 2010** Studies on Water Quality and Fish Communities in the Kuantan Estuary Pahang Malaysia
- 2008 - 2010** ?-fatty Acid Profiles of Mudskippers from Malaysian Mangrove and Intertidal Zones
- 2008 - 2011** Distribution of Heavy Metals and Their Pollution Effects on Fishes, Green Mussels and Sediments of Coastal Water Pahang, Langkawi Malaysia and Gulf of Oman
- 2008 - 2009** The Diversity and Distribution of Fishes in Pahang Estuary
- 2007 - 2010** Geochemical and Sedimentological Characteristics Studies of Pahang Estuary, Malaysia
- 2007 - 2010** Assessment of Heavy Metals concentration in Marine Commercial fishes of Pahang Estuary
- 2007 - 2010** Sediment Accretion and Sediment Characteristics of Pahang Estuarine Mangrove
- 2007 - 2010** Study on Microbial Ecology of the Coastal Water Langkawi
- 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
- Unknown - 2019** INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER
- Unknown - 2020** Environmental Determinants Influencing Fish Community Structure and Seasonal Diversity IN TROPICAL ESTUARY, KUALA PAHANG, MALAYSIA

## المنشورات

### Article

- 2020** [Screening of biodegradation potential for n-alkanes and polycyclic aromatic hydrocarbon among isolates from the north-western tip of Pahang.](#) Desalination and Water Treatment , 191 pp.207-212

- 2020** [Acute-lethal toxicity test on juvenile Oreochromis niloticus exposed to Piper betle extract under static exposure.](#) Ecofeminism and Climate Change , 1 (2) pp.79-87
- 2020** [Environmental forensic study: tracing of pollution sources using environmetric technique in Balok and Tunggak Rivers near Gebeng industrial area, Kuantan, Pahang, Malaysia.](#) Desalination and Water Treatment , 191 pp.118-125
- 2020** [Membrane retention potential of Tachypleus gigas during early embryogenesis.](#) Desalination and Water Treatment , 187 pp.17-23
- 2020** [Endophytic bacteria of Anisophyllea disticha \(Raja Berangkat\) from tropical lake environment in Malaysia.](#) Desalination and Water Treatment , 188 pp.282-287
- 2020** [Isolation of heavy metal resistance bacteria from lake sediment of IIUM, Kuantan.](#) Desalination and Water Treatment , 188 pp.431-435
- 2020** [Reproductive seasonality and environmental effects in green turtle \(Chelonia mydas\) nesting at Penang Island, Malaysia.](#) Journal of the Marine Biological Association of the United Kingdom , 100 (4) pp.645-650
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- 2019** [Biological activities and extraction technologies of Pheonix dactylifera: a review..](#) The Natural Products Journal , 9 (1) pp.3-13
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- 2019** [Ecology, ecosystem & conservation biology.](#) Journal of Environmental Biology , 40 (3) pp.407-408
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- 2016 [Antibacterial property of crude extract from stem-bark and leaves of Rhizophora apiculata against selected bacterial fish pathogens.](#) In: **Medical Research Symposium & Pacific Partnership in conjunction with Kuantan Research Day 2016**
- 2016 [Common diseases of pangasius hypophthalmus farmed in Temerloh, Pahang, Malaysia.](#) In: **2nd International Conference on Oceanography and Sustainable Marine Production (ICOSMaP 2016)**
- 2016 [Heavy metals resistance bacteria in marine sediment of Pahang coastal water.](#) In: **2nd International Conference on Oceanography and Sustainable Marine Production (ICOSMaP 2016)**
- 2016 [Antimicrobial activities of actinomycetes isolated from Malaysian tropical mangrove forest of Kuantan, Pahang.](#) In: **5th International Conference on Environment, Energy and Biotechnology 2016**
- 2016 [Quantification of pollution loads for the rehabilitation of Pusu River.](#) In: **International Conference on Engineering Technology (ICET 2016)**
- 2016 [Effect of sand mining on water quality index of Sg.Pusu.](#) In: **4th International Conference on Innovations in Chemical, Agricultural and Environmental Engineering (ICICAE'2016)**
- 2016 [Effect of recent flood on ichthyoplankton and juvenile fish assemblage changes in Kuantan river revealed through DNA barcoding.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2015 [Morphological discriminations of arius species \(siluriformes: ariidae\) in Peninsular Malaysia using Truss network approach.](#) In: **International Fisheries Symposium (IFS 2015)**
- 2015 [Morphological discrimination between wild and captive populations of climbing perch, Anabas testudineus using a truss network.](#) In: **International Fisheries Symposium (IFS 2015)**
- 2015 [Diversity and antimicrobial activities of mangrove actinomycetes isolated from Tanjung Lumpur, Kuantan.](#) In: **5th International Conference of Advancement in Science And Technology (iCAST 2015)**
- 2015 [Antibiotic resistant bacteria from sediment of coastal water of Pahang, Malaysia.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2015)**
- 2015 [DNA barcoding of selected endangered and commercial fishes of Pahang river.](#) In: **International Conference of Clean Water, Air & Soil (CleanWAS 2015)**
- 2015 [DNA barcoding of selected endangered species of Pahang river.](#) In: **International Fisheries Symposium (IFS 2015)**

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- 2015 [Smart system for real time optimization of solid waste management in Malaysia.](#) In: **2015 International Conference of Clean Water, Air & Soil**
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- 2014 [Isolation and identification of microsatellite loci from climbing perch, \*Anabas testudineus\*.](#) In: **Asian Fish Biodiversity Conference 2014 (AFBC 2014)**
- 2014 [A new hope to control foodborne diseases and pollution: potential antimicrobial activity of banana \(\*Musa paradisiaca\*\) peels against food borne pathogenic microbes.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2014 [Antibiotic resistant bacteria from sediment of coastal water of Pahang Malaysia.](#) In: **International Conference on Agriculture, Biology and Environmental Sciences (ICABES-14)**
- 2014 [Potential antimicrobial activity of banana \(\*Musa paradisiaca\*\) peels against food borne pathogenic microbes.](#) In: **International Conference on Natural Products 2014**
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