



AFIQ DURRANI MOHD FAHMI

Lecturer
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QUALIFICATIONS

- Doctor of Philosophy (Marine Biology), Heriot-Watt University, UK
- Master of Science (Marine Biodiversity & Biotechnology), Heriot-Watt University, UK
- Bachelor of Science (Biotechnology), University of Hertfordshire, UK

FIELD OF RESEARCH

- 1. Marine microbiology
- 2. Ocean acidification
- 3. Host-microbiota interaction

RESEARCH INTEREST

My main research interest is understanding host-associated microorganisms and their role in maintaining the hosts health and resilience to pollution and future ocean conditions. Previously I have worked with bacterial-microalgal consortia response to crude oil pollution and ocean acidification. Since then I have secured funding to understand the role of bacteria associated with sea urchins under ocean acidification conditions. Just like human microbiota, marine creatures depend on their associated bacterial communities to ensure fitness and resilience to a challenging environment. I hope to uncover who the key players are and what their specific roles are within their host to understand their larger impact in the marine ecosystem.

RESEARCH PROJECTS

- Elucidation of sea urchin (*Diadema setosum*) holobiont resilience mechanism under ocean acidification stressors.

EXPERT LINKAGES

- *HERIOT WATT UNIVERSITY*
- *UNIVERSITY OF EDINBURGH*

PROFFESIONAL MEMBERSHIP

- International Society for Microbial Ecology

GRANTS

Project : Elucidation of sea urchin (*Diadema setosum*) holobiont resilience mechanism under ocean acidification stressors

Position : Project leader

Grant Name : Fundamental Research Grant Scheme (FRGS)

Status : Active

Amount : RM 129,391.00

Project : Identification of Mangrove Baitworm 'Ruat Bakau' from genus *Marphysa* (Polychaeta, Eucinadae) using integrated framework in taxonomy approach

Position : Co-researcher

Grant Name : Talent and Publication Enhancement Research Grant (TAPE-RG)

Status : Active

Amount : RM 20,000

AWARDS

- 17th International Symposium for Microbial Ecology (ISME17) Travel Grant
- Heriot Watt University Annual Grant for Public Engagement

PUBLICATIONS

Journal Article

1. Patsiou et al., (2020) 'Exposure to Pb-halide perovskite nanoparticles can deliver bioavailable Pb but does not alter endogenous gut microbiota in zebrafish', *Science of The Total Environment*. Elsevier, 715, p. 136941. Doi:10.1016/J.SCITOTENV.2020.136941

Other Outputs

[Thesis, manuscript, books, reports, etc.]

1. Thesis: Response of Microalgal-Bacterial Consortia To Ocean Acidification and Crude Oil Pollution

SUPERVISION

Master Degree

Thesis Title : Response of *Diadema setosum* and its bacterial assemblage to ocean acidification
Student Name : Abdul Rahman Romeli
Role : Primary supervisor
Status : On-going

COURSE TAUGHT

- Ocean and Life (MMB3100)
- Ocean Biology and Human Health (MMB3102)
- Marine Microbial Diversity (MMB3305)
- Blue Carbon (MMB3313)

LINKS

- SCOPUS: Afiq Mohd-Fahmi (ID: 57214591894)
<https://www.scopus.com/authid/detail.uri?authorId=57214591894>
- Researchgate: https://www.researchgate.net/profile/Afiq_Mohd_Fahmi
- LinkedIn: <https://www.linkedin.com/in/afiqdurrani>
- ORCID: <https://orcid.org/0000-0002-5131-0098>
- Google Scholar: <https://scholar.google.com/citations?user=RE9IJokAAAAJ&hl=en&oi=ao>