



## **DR. NURUL SHAHIDA REDZUAN**

Lecturer (Microbial Ecology, Phycology)  
School of Marine and Environmental Sciences  
Universiti Malaysia Terengganu, Malaysia



nurulshahida@umt.edu.my



+609668XXXX



+6096683193

### **Academic Qualification**

Ph.D [Biology (*microbial ecology*), Essex University, UK]

M.Sc (Phycology, UM)

B.Sc (Ecology & Biodiversity, UM)

### **Research Areas**

- 1) Phytoplankton taxonomy and ecology
- 2) Microphytobenthos (benthic microalgae) ecology
- 3) Benthic sediment biofilm

### **Research Interest**

I am a marine and freshwater ecologist, who particularly interested in the contributions of both phytoplankton and microphytobenthic (MPB) organisms in maintaining the tidal flat and mangrove ecosystems as important ecosystem services. Located at the base of food chains, phytoplankton and MPB are also vital in making sure the intertidal flats can play their roles as an important ecosystem services to human. Therefore, the key objective of my research must be to characterize the occurrence of these microorganisms in the ecosystems as part of monitoring activity. Also, studies on the effect of weather-related abiotic factors, intertidal flat geomorphology and the rise of sea level on the diversity and the occurrence of the organisms can potentially provide informative outputs on how to conserve the organisms and also help to maintain the health of the intertidal flats.

MPB and phytoplankton have been proven to inter- connected via the sediment-water column exchanges under the influence of abiotic factors across tidal variation (my current research). Studies on the exchanges potentially provide information on sediment resuspension in the intertidal flat during immersion periods which

consequently will benefit studies on sediment erosion on this ecosystem. Therefore, my other research interest is to investigate the contribution of phytoplankton and MPB in increasing the erosion threshold of sediment, which perhaps could be done in situ or ex situ.

### **Current Research Projects**

NIL

### **Special Interest Group (SIG)**

*BRITISH DIATOMISTS  
AQUATIC SCIENCES AND LIMNOLOGICAL ORGANIZATION (ASLO)*

### **Professional Membership**

British Diatomists

### **Awards**

NIL

### **Publications**

#### **2017**

Redzuan, N. S. 2017. PhD Thesis, Microphytobenthos (MPB) Variability and Sediment-Water Column Exchanges on an Intertidal Flat: Influence of Weather-related Abiotic Factors across Neap-Spring-Neap Tidal Cycles. University of Essex, United Kingdom.

#### **2012**

Nurul Shahida R. 2010. Master Thesis, Spatial and Temporal Distributions of Phytoplankton at Carey Island Mangrove. University of Malaya, Malaysia.

#### **2010**

Nurul Shahida R., Aishah S. & Pozi M. 2010. Species composition of Order Chaetocerotales at Pulau Carey mangrove ecosystem. Proceedings of Conference on Natural Resources In The Tropics 3. University Malaysia Sarawak, Malaysia. 581-587.

## **Conferences and seminars**

### **2015**

Redzuan, N. S. & G. J. C. Underwood. Sediment-water Column Exchanges of Microphytobenthos (MPB) on an Intertidal Flat. Aquatic Sciences Meeting 2015 (ASLO 2015), Granada, Spain. 22-27<sup>th</sup> February 2015. Oral presentation.

Redzuan, N. S. & G. J. C. Underwood. Influence of sediment biofilm 'Phase of Growth' on high Microphytobenthos (MPB) variability on an intertidal flat. 6<sup>th</sup> European Phycology Congress. 23<sup>rd</sup>-28<sup>th</sup> August 2015. Oral presentation.

### **2014**

Redzuan, N. S. & G. J. C. Underwood. Spatio-temporal Distribution of Microphytobenthos across an Intertidal Flat. British Diatomists' Meeting, Hay on Wye, Wales. 25<sup>th</sup> October 2014. Oral presentation.

### **2013**

Redzuan, N. S. & G. J. C. Underwood. The Distribution of Microphytobenthos at Fingringhoe Tidal Flat. British Diatomists' Meeting, Lake District, England. 26<sup>th</sup> October 2013. Oral presentation.

### **2011**

Nurul Shahida R. Spatio and Temporal Distribution of Phytoplankton at Carey Island Mangrove Ecosystem. Institute of Biological Sciences Postgraduate Seminar, University of Malaya. 4<sup>th</sup> November 2011. Oral presentation

### **2010**

Nurul Shahida R. Factors Affecting the Spatio and Temporal Distribution of Phytoplankton at Carey Island Mangrove Ecosystem. Institute of Biological Sciences, Faculty of Science, University of Malaya Candidature Defence, 22<sup>nd</sup> April 2010.

### **2009**

Nurul Shahida R., Aishah S. & Pozi M. Species Composition of Order Chaetocerotales at Pulau Carey Mangrove Ecosystem. 3<sup>rd</sup> Natural Resources in The Tropics, Hilton Hotel, Sarawak, Malaysia. 3<sup>rd</sup> – 5<sup>th</sup> Aug 2009. Poster presentation.

## **Academic Supervision**

NIL

## **Course Taught**

NIL

## **Links**

Researchgate : [https://www.researchgate.net/profile/Nurul\\_Redzuan3](https://www.researchgate.net/profile/Nurul_Redzuan3)