



NURUL HUDA AHMAD ISHAK

Lecturer
Faculty of Science and Marine Environment
Universiti Malaysia Terengganu



huda@umt.edu.my



+609 668 3888 / +6019 4110569



+609 668 3991

QUALIFICATIONS

- Doctor of Philosophy (Biological Science), University of Tasmania AU
- Master of Science (Marine Biology), Universiti Malaysia Terengganu
- Bachelor of Science (Biodiversity Conservation and Management), Kolej Universiti Sains dan Teknologi Malaysia

FIELD OF RESEARCH

- Biological Oceanography
- Marine Zooplankton Ecology
- Marine Zooplankton Taxonomy

RESEARCH INTEREST

My field of expertise is ecology of zooplankton with a hint of taxonomy; with some experience working in Storm Bay (Tasman Sea), South China Sea and Oyashio-Kuroshio transitional region (western boundary currents in the North Pacific). Biological Oceanography has underpinned much of my work. Basically, in order to understand the roles that pelagic zooplankton (salps, doliolids and copepods) play in the ecosystems, we quantify the abundance, trophic links and interactions between organisms and their environment. Gelatinous zooplankton that often generate large blooms play an important role in biogeochemical cycling. We want to know how do they fit into the food web, and also to evaluate future-climate related impacts.

RESEARCH PROJECTS

- The Fate of Salps in a Changing Ocean: Emerging Environmental Consequences for the Indian Ocean Sector of the Southern Ocean (2021-
- The Effect of Sporadic Occurrence of Pelagic Tunicates on Ecosystem in the Oyashio-Kuroshio Mixed Waters (transitional area) (2018-2020)
- A Taxonomic Guide and Ultrastructure of Tunicates from Terengganu Waters (2015-2017)
- IOC WESTPAC- Upwelling and its Dynamics in the South China Sea and adjacent areas (since 2018)

EXPERT LINKAGES

- The University of Tokyo Japan
- Tokyo University of Marine Science and Technology Japan
- National Institute of Polar Research Japan
- Institute for Marine and Antarctic Studies Hobart Tasmania
- University of Tasmania, Australia
- Coral Triangle Center- Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFF)
- International Islamic University Malaysia

PROFFESIONAL MEMBERSHIP

- Association for the Sciences of Limnology and Oceanography
- The Plankton Society of Japan
- Japan Society for the Promotion of Science (JSPS) Alumni Association Malaysia
- Japan Geoscience Union (JpGU)
- The Oceanographic Society of Japan
- Japan Marine Biology Research Group 日本海洋学会海洋生物学研究会
- International Union for Conservation of Nature (IUCN) World Commission on Protected Area (WCPA) Commission/Groups applied: Biodiversity and Protected Areas, Climate Change and Protected Areas, Marine
- Malaysian Society of Marine Sciences
- World Association of Copepodologists
- Malaysian Society of Applied Biology

GRANTS

Project : The Fate of Salps in a Changing Ocean: Emerging Environmental Consequences for the Indian Ocean Sector of the Southern Ocean

Position : Principle Investigator

Grant Name : Sultan Mizan Antarctic Research Foundation - Smart Partnership Initiative (Research Grant 2020).

Status : Active

Amount : RM150,000

Project : Prototype Development of Microalgae Paste; F- Algae, For Aquaculture Industry

Position : Co-Researcher

Grant Name : Prototype Research Grant Scheme (PRGS)

Status : Active

Amount : RM118,000

Project : Marine Knowledge Assimilations to Coastal Community via Sustainable Co-Management

Position : Co-Researcher

Grant Name : Knowledge and Technology Assimilation Grant Scheme 2018 (KTAG 2018)

Status : Completed

Amount : RM5000

Project : Green Turtle Initiative- Conservation Effort in Malaysia (GTICEM)

Position : Co-Researcher

Grant Name : Grant awarded by Coral Triangle Centre (CTC) and United States Agency for International Development (USAID).

Status : Completed

Amount : USD5000

Project : A Taxonomic Guide and Ultrastructure of Tunicates from Terengganu Waters.

Position : Principal Investigator

Grant Name : Research Acculturation Grant Scheme (RAGS)

Status : Completed

Amount : RM32000

AWARDS

- Postdoctoral Scholarship (Ministry of High Education Malaysia) – The University of Tokyo, Nov 2018-Oct 2020
- Australian Marine Sciences and Association Travel Awards 2013

PUBLICATIONS

Journal Article

1. **Ishak NHA**, Tadokoro K, Okazaki Y, Kakehi S, Suyama S and Takahashi K **(2020)** Distribution, biomass, and species composition of salps and doliolids in the Oyashio-Kuroshio Transitional Region: Potential impact of massive bloom on the pelagic food web. *Journal of Oceanography*. <https://doi.org/10.1007/s10872-020-00549-3>
2. Sham A, Kassim Z, **Ishak NHA**, Ahmad Z, Hasnan HH **(2019)** New record of miraciidae (Copepoda: Harpacticoida) from Tioman Waters. *International Journal of Recent Technology and Engineering*. 8:351-358
3. **Nurul Huda Ahmad Ishak** and Firdaus Amer Hamzah **(2019)** Checklist of salps and doliolids species (Tunicata, Thaliacea) collected during the Ekspedisi Pelayaran Saintifik Kebangsaan 2016 in the East Coast of Peninsular Malaysia. *Penerbit UMT Universiti Malaysia Terengganu*. p 184-214
4. Azrina S, Zaleha K, **Nurul Huda AI**, Zuhairi A, Hazwani Hanim H **(2019)** New record of harpacticoid (Copepoda:Harpacticoida) from Tioman Archipelago, Pahang Peninsular Malaysia. *Malayan Nature Journal*, 71(1), 3-15
5. Adam N and **Ahmad Ishak NH** **(2018)** A taxonomic revision of the Family Doliolidae Bronn, 1862 (Chordata, Tunicata, Thaliacea, Doliolida) from East Coast of Peninsular Malaysia with an updated worldwide distribution. *Journal of Sustainability Science and Management*. Vol. 13 No. 5: 147-177
6. **Ahmad Ishak NH**, Nur 'Aliah A, Zaleha K. **(2018)** A taxonomic revision of the genus *Thalia* Blumenbach, 1798; *Weelia* Yount, 1954; *Brooksia* Metcalf, 1918 (Salpida: Salpidae) from East Coast of Peninsular Malaysia. *Zootaxa* 4422 (4): 451–477 <https://doi.org/10.11646/zootaxa.4422.4.1>
7. Zaleha K, Hazwani Hanim H, Syazleen Z, **Ahmad Ishak NH** **(2018)** Report on five species of harpacticoid copepods from vegetative area of Sungai Pulai, Johor. *Malaysian Journal of Fundamental and Applied Sciences Vol. 14, No. 2* 284-288.
8. **Ahmad Ishak NH**, Clementson LA , Eriksen RS, van den Enden RL, Williams GD, Swadling KM **(2017)** Gut contents and isotopic profiles of *Salpa fusiformis* and *Thalia democratica*. *Marine Biology* 164:144. <https://doi.org/10.1007/s00227-017-3174-1>
9. Zaleha K, Kamaliah K, **Nurul Huda AI**, Rozlinda MR, Nur Erni Atika H, Kamaruzzaman BY **(2011)** Biodiversity of Selected Marine Arthropoda in Malaysia. Chapter in Book: Chapter 7- Marine Biodiversity: Inventory and Current Status. Kamaruddin et al (eds). Page 99-108
10. Zaleha K, Nazia, AK and **Nurul Huda AI** **(2010)**. Species assemblages of benthic harpacticoid copepods on tide rock pool seaweeds of Pulau Besar, Melaka, Malaysia. *Journal of Tropical Biology and Conservation*, 7:1-10

11. **Nurul Huda AI** and Zaleha K. **(2009)** Taxonomy of a benthic copepod, *Metamphiascopsis hirsutus* (Thompson & A. Scott, 1903). *Malaysian Journal of Microscopy*. 5:36-41

Other Outputs

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

1. **Ahmad Ishak, NH (2014)** The bloom dynamics and trophic ecology of salps and doliolids in Storm Bay, Tasmania. PhD thesis, University of Tasmania. doi. 10.13140/RG.2.2.21152.38400

SUPERVISION

Doctor of Philosophy Degree

Thesis Title : Taxonomy and Ultrastructure of Benthic Harpacticoids on Tioman Coral
Student Name : Azrina Binti Amir Sham
Role : Co-Supervisor
Status : Graduated

Master Degree

Thesis Title : Taxonomy and Biogeography of Thaliaceans From East Coast of Malaysia
Student Name : Nur 'Aliah Adam
Role : Main Supervisor
Status : Graduated

Thesis Title : Food Preferences of Horseshoe Crabs
Student Name : Anis Syahira Binti Abdul Halim
Role : Co-Supervisor
Status : Completed

COURSE TAUGHT

- Biological Oceanography (MMB3300A)
- Planktonology (MMB3302)
- Marine Invertebrate Biology (MMB3309)
- Marine Primary Productivity (MMB3307)
- Aquatic Botany (FIS3401)
- Aquatic Instrumentation and Methodology (MMS3201)
- Environmental Issues and Global Perspective (MMS3003)
- Biodiversity and Marine Conservation (MMB4300)

LINKS

- SCOPUS 57194690539
- WoS O-4235-2018
- Researchgate https://www.researchgate.net/profile/Nurul_Ishak17
- ORCID 0000-0003-3603-1063

OTHERS

- Journal Reviewer:
 1. Limnology and Oceanography
 2. Polar Science
 3. Frontiers in Marine Science
 4. Plankton and Benthos Research
- Public Outreach
 - Live with Marine Scientists: The Benefits of Marine Science Scientific Studies for the Community – in conjunction with World Ocean Week 2020, *17 Jun 2020*
 - Working with Polar Scientist ‘Salps: The Role of Climate Change in Shaping Antarctic Communities and Ecosystems’. Organized by *Sultan Mizan Antarctic Research Foundation (YPASM)* in conjunction with Polar Science Camp. April 2018.
 - Tadika Cahaya Warisan, Gong Badak, Terengganu (Kindergarten). December 2015, *Life under the Sea*
- Research Interest Group: Ocean Pollution and Ecotoxicology (OPEC) UMT