

Curriculum Vitae

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Daphne Z. Hoh 何芷蔚

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Academic Background

Ph.D. in Biodiversity

2022

Academia Sinica & National Taiwan Normal University

Thesis title: Genomic basis of pathogenicity in *Fusarium solani* species complex infecting sea turtles

B.Sc. Marine Science

2015

Universiti Malaysia Terengganu, Malaysia.

Research Interest

Biodiversity, Ecological Informatics, Open data, Conservation biology

On-going Research

- **Status of open biodiversity data in Taiwan:** Literature review and determine temporal and spatial gaps in open biodiversity data in Taiwan
- **Sea turtle photo-ID:** Co-founder of “TurtleSpot Taiwan”, a citizen science initiative that collects sighting records of sea turtle [<https://www.facebook.com/groups/turtlespotintw>]
- **Sea turtle scatology:** Population genetics of foraging sea turtles, eDNA, marine debris

Publications

- **Hoh, D.Z.**, Lee, H.H., Wada, N., Liu, W.A., Lu, M.R., Lai, C.K., ... & Tsai, I.J. (2022). *Fusarium solani* species complex genomes reveal bases of compartmentalisation and animal pathogenesis. *bioRxiv*. <https://doi.org/10.1101/2022.03.22.485422>
- Chen, Y.H., Chen, H.J., Yang, C.Y., Shiu, J.H., **Hoh, D.Z.**, Chiang, P.W., ... & Tang, S.L. (2021). Prevalence, complete genome and metabolic potentials of a phylogenetically novel cyanobacterial symbiont in the coral-killing sponge, *Terpios hoshinota*. *Environmental microbiology*, 24(3), 1308-1325.
- **Hoh, D.Z.**, Lin, Y.F., Liu, W.A., Sidique, S.N.M., & Tsai, I.J. (2020). Nest sand microbiota and pathogen abundance in sea turtle hatcheries. *Fungal Ecology*, 47, 100964.

- Yussof, W., Shaharudin, N., Hitam, M.S., Awalludin, E.A., Rusli, M.U., & **Hoh, D.Z.** (2020). Photo Identification of Sea Turtles Using AlexNet and Multi-Class SVM. 19th International Conference on New Trends in Intelligent Software Methodologies, Tools and Techniques. Virtual. Japan. September 2020. (Conference paper, pp. 23-31).

Presentations

Daphne Z. Hoh, Yu-Fei Lin, Wei-An Liu, Siti Nordahliawate Mohd. Sidique, Isheng J. Tsai. Nest microbiota and pathogen abundance in sea turtle hatcheries. 真菌年會. National Taiwan University, Taiwan. Oct 2020. (Poster presentation)

Chialing Fong, **Daphne Z. Hoh**, Huai Su, Pengyu Chen, Yoko Nozawa. Citizen scientists reveal main threats to the foraging sea turtles in Taiwan. 4th Asian Marine Biology Symposium. Taipei, Taiwan. Nov 5-6, 2019. (Symposium - Poster presentation)

Daphne Z. Hoh, Yu-Fei Lin, Wei-An Liu, Siti Nordahliawate Mohd. Sidique, Isheng J. Tsai. The implication of hatchery practices and microbial diversity in *Fusarium*-infected sea turtle nests. Gordon Research Seminar/Conference – Marine Molecular Ecology. Hong Kong University Science and Technology. Hong Kong. July 13 – 19, 2019. (Poster presentation)

Daphne Z. Hoh, Yu-Fei Lin, Wei-An Liu, Siti Nordahliawate Mohd. Sidique, Isheng J. Tsai. The microbial community of sea turtle nests infected by *Fusarium solani* species complex. Mitalk Young Scientist Workshop 2019. National Cheng Kung University, Taiwan. Jan 28-29, 2019. (Oral presentation)

Daphne Z. Hoh, Huei-Mien Ke, Pei-Feng Sun, Isheng J. Tsai. Comparative genomics of *Fusarium solani* species complex associated with animals. International Symposium on Evolutionary Genomics and Bioinformatics 2018. Taipei, Taiwan. Oct 20-21, 2018. (Poster presentation)

Chialing Fong, Huai Su, Pengyu Chen, **Daphne Z. Hoh**, Macro Chang. TurtleSpot Taiwan: Establishing sea turtle open database through citizen science. 4th Asia-Pacific Coral Reef Symposium. Cebu, Philippines. June 4-8, 2018. (Oral presentation)

Chialing Fong, Huai Su, Pengyu Chen, **Daphne Z. Hoh**, Macro Chang. TurtleSpot Taiwan: New interactions, new records and the emerging power of divers. 38th Annual Symposium on Sea Turtle Biology & Conservation. Kobe, Japan. Feb 18-23, 2018 (Poster presentation)

Daphne Z. Hoh, Muhammad Hafiz bin Borkhanuddin, Kesaven Bhupalan. Hatching success on relocated Hawksbill turtle (*Eretmochelys imbricata*) nests in Padang Kemunting Turtle Hatchery, Malacca, and the implication of identified fungi. The International Seminar on the Straits of Malacca and the South China Sea. Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu, Malaysia. Nov 1-2, 2015. (Oral presentation)

Academic and Professional Award

TIGP Biodiversity Program Retreat, Oral presentation award – 1 st place	2020
TIGP Biodiversity Program Retreat, Poster presentation award – 2 nd place	2019
Dean Award of Academic Excellence, Universiti Malaysia Terengganu	2012 – 2015

Scholarship/Fellowship

Taiwan International Graduate Program (TIGP-AS), Research Progress Fellowship	2020
Academia Sinica Young Researcher Travel Grant	2020
TIGP, Academia Sinica. Ph.D. Scholarship	2016
TIGP, Academia Sinica. Internship	2016

Professional Qualification

SSI Freediving Level 1	2019
PADI Dive Master	2015
St. John Ambulance Malaysia First Aider	2005 – 2016

Professional Experience

Research Assistant	Jan - June 2016
Institute of Biological Sciences, University of Malaya	
	2015
Field Sampling Assistant	
Coral Reef Research	
Redang & Bidong Island, Malaysia	
	2014
Data Collector	
Reef Clean Up Programme by Department of Marine Park Malaysia	
Marine Park, Redang Island, Malaysia	
	2014
Data Collector & Volunteer	
Hatching Analysis by WWF Malaysia	
Padang Kemunting Turtle Hatchery, Malacca, Malaysia	
	2013
Volunteer	
“World Sea Turtle Day” Turtle Awareness Programme by Sea Turtle	
Research Unit (SEATRU), Universiti Malaysia Terengganu &	
Laguna Redang Beach Resort, Redang Island, Malaysia	