

Curriculum vitae

	Chinese Full Name	何櫻寧
	English Full Name	HO, Ying-Ning
	Title	☒ Prof. ☐ Dr. ☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other: _____
	Current Position	Associate professor, Institute of Marine Biology, National Taiwan Ocean University
	Education	Ph. D. in Life Science, National Chung Hsing University, Taiwan
Professional Experiences	1. Assistant professor, Institute of Marine Biology, National Taiwan Ocean University, Taiwan (2019 Sep-2024 July) 2. Postdoctoral Fellowships (JSPS), Graduate School of Environmental Studies, Department of Environmental Studies for Advanced Society Tohoku University, Japan (2018 Nov-2019 Aug) 3. Postdoctoral Research Scholar, Agricultural Biotechnology Research Center, Academia Sinica, Taiwan (2015 Aug-2018 Nov)	
Awards and Honours	1. "Eco-Friendly Group, Model Award" at the <i>Global Views</i> USR Awards 2. Asia-Pacific Sustainability Action Awards, 2025 (TAISE) 3. 2030 Cross-Generation Young Scholars Program Award, NSTC, Taiwan (2022)	

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Biography Content

Dr. Ho, Ying-Ning is an Associate Professor at the Institute of Marine Biology at National Taiwan Ocean University, specializing in marine biology, microbiology, and environmental science. He earned his complete academic training, from B.S. to Ph.D. in Life Science, at National Chung Hsing University, completing his doctorate in 2013. Following, Dr. Ho advanced his expertise through several postdoctoral roles, including positions at Academia Sinica and a prestigious JSPS Fellowship at Tohoku University, Japan. He joined the faculty at National Taiwan Ocean University in 2019 and was promoted to Associate Professor in 2024.

Dr. Ho's research centers on host-microbe interactions and environmental biotechnology. He uses cutting-edge techniques to study pressing issues like the microbiomes of marine organisms under stress, the unique microbial ecosystems ("plastispheres") on marine plastic debris, and marine genomics. His work has led to high-quality genome assemblies for important species like the hard clam *Meretrix*. The impact of his research is demonstrated by a prolific publication record in leading journals such as *The ISME Journal*, *Environment Pollution*, and *Journal of Hazardous Materials*. In addition to his articles, Dr. Ho has contributed to book chapters, holds several patents, and actively presents his findings at international conferences, offering tangible solutions to critical environmental challenges.

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Previous Publications / Selected References

1. Priyanka Muthu, **Ying Ning Ho***, Jiang Shiou Hwang*. **2026**. Temporal dynamics of pathogenic bacterial consortia on the plastics in shallow-water hydrothermal vents. **Marine Pollution Bulletin** **228**:119563.
2. Priyanka Muthu, Sakcham Bairoliya, Gowri Krishna Girija, Li-Chun Tseng, Bin Cao, Jiang-Shiou Hwang*, **Ying-Ning Ho***. **2026**. Substrate-driven microbial diversity and functional potential of plastisphere biofilms in a dynamic coastal ecosystem of northeastern Taiwan. **Environmental Pollution** **389**:127382.
3. Che-Chun Chen, Te-Hua Hsu, Hsin-Yun Lu, Sen-Lin Tang and **Ying-Ning Ho***. **2025**. High-quality chromosome-level genome of three Meretrix species using Nanopore and Hi-C technologies. **Scientific Data** **12**:114.
4. Che-Chun Chen, Yu-Ping Chen, Hsiao-Tsu Yang, Yu-Ling Chen, Chen-Wei Wu, Hong-Yi Gong, Yuan-Shing Ho and **Ying-Ning Ho***. **2025**. Temperature-dependent shifts in gut microbiota and metabolome of olive flounder (*Paralichthys olivaceus*): implications for cold- water aquaculture expansion and probiotic applications. **Animal Microbiome**. **7**:49.
5. Hsiao-Tsu Yang, Yi-Hsuan Huang, **Ying-Ning Ho***. **2024**. *Oceanimonas pelagia* sp. nov., a novel biosurfactant producing and plastic-degrading potential bacterium isolated from marine coastal sediment. **Antonie van Leeuwenhoek**, 117:49. (IF: 0.98, Microbiology, 16.5%)
6. Chongyang Yang, Ning Han, Chihiro Inoue, Yu-Liang Yang, Hideaki Nojiri, **Ying-Ning Ho***, Mei-Fang Chien*. **2022**. Rhizospheric plant-microbe synergistic interactions achieve efficient arsenic phytoextraction by *Pteris vittata*. **Journal of Hazardous Materials**, 434: 128870.
7. **Ying-Ning Ho***, Yu-Ling Chen, Ding-Yang Liu. **2021**. Portable and rapid sequencing device with microbial community guided culture strategies for precious field and environmental samples. **mSystems**.
8. **Ying-Ning Ho**, Sin Yong Hoo, Bo-Wei Wang, Chi-Ting Hsieh, Ching-Chih Lin, Chi-Hui Sun, Chia-Chi Peng, Chih Lin, Yu-Liang Yang*. **2021**. Specific inactivation of an anti-fungal bacterial siderophore by a fungal plant pathogen. **The ISME Journal**. <https://doi.org/10.1038/s41396-020-00871-0>