

PERSONAL DATA

Dr. Ying-Ning, Ho (何櫻寧)

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Affiliation: Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan



EDUCATION & EXPERIENCES

Experiences:

2024 Aug-Present Associate professor

Institute of Marine Biology, National Taiwan Ocean University

2019 Sep-2024 July Assistant professor

Institute of Marine Biology, National Taiwan Ocean University

2018 Nov-2019 Aug Postdoctoral Fellowships (JSPS)

Graduate School of Environmental Studies, Department of Environmental Studies for Advanced Society Tohoku University, Japan

2018 Aug-2018 Nov Regular Postdoctoral Scholar

Agricultural Biotechnology Research Center, Academia Sinica, Taiwan

2015 Aug-2018 Jul Postdoctoral Research Scholar

Agricultural Biotechnology Research Center, Academia Sinica, Taiwan

2014 Sep-2015 Jul Postdoctoral Fellow

National Chung Cheng University, Taiwan

2013 Oct.-2014 Sep. Military Service

Ocean Guard Headquarters, CGA

Education:

2008-2013 Ph. D. in Life Science

National Chung Hsing University, Taiwan.

2006-2008 M. S. in Life Science

National Chung Hsing University, Taiwan.

2002-2006 B. S. in Life Science

National Chung Hsing University, Taiwan.

GRANTS AND AWARDS

2018 Outstanding Poster Award (Poster Presentation Award), the 33rd Symposium on Natural Products (October 6-7, 2018, Kaohsiung Medical University, Taiwan)

2016 Poster Award, The second place prize, The 31st Symposium on Natural Products & Symposium on Pharmacy and Traditional Chinese Medicine. (November 14-15, 2016, Kaohsiung, Taiwan)

2015 ELSEVIER recognized reviewer for biological control

2013 Student Travel Grant (National Science Council, Taiwan)

2012 Student Travel Grant (Ministry of Education, Taiwan)

2012 Student Travel Grant (National Science Council, Taiwan)

2012 ASM Poster Award, Environmental Microbiology Symposium. (September 14, 2012, National Central University, Taiwan)

2011 Student Travel Grant (Ministry of Education, Taiwan)

2008 Honorable mention. Crazy idea (Biotechnology R & D Creative Application Competition from Agricultural biotechnology industrialization technology promotion project, Industrial Development Bureau)

2005 Outstanding Graduate Award of National Chung Hsing University. (Service Award)
2005 Ching-Ah Honor of National Chung Hsing University.

ACADEMIC SERVICE

1. ELSEVIER recognized reviewer for Biological control (awarded July, 2015)
2. Reviewer of Biological control (2015.06.26~2015.07.17)
3. Reviewer of Critical reviews in Biotechnology (2015.05.28~2015.06.21)
4. Reviewer of Biological control (2015.01.21~2015.02.12)

PUBLICATIONS

1. Shih-Hsun Walter Hung, Pin-Hsien Yeh, Tsai-Ching Huang, Shao-Yu Huang, I-Chen Wu, Chia-Ho Liu, Yu-Hsi Lin, Pei-Ru Chien, Fan-Chen Huang, **Ying-Ning Ho**, Chih-Horng Kuo, Hau-Hsuan Hwang, En-Pei Isabel Chiang, Chieh-Chen Huang*. **2024**. A cyclic dipeptide for salinity stress alleviation and the trophic flexibility of endophyte provide insights into saltmarsh plant-microbe interactions. *ISME Communications*, ycae041. (IF: 5.1, Ecology, 85.8%)
2. Jiji Kannan, Ka-Lai Pang, **Ying-Ning Ho**, Pang-Hung Hsu* and Li-Li Chen*. **2024**. A Comparison of the Antioxidant Potential and Metabolite Analysis of Marine Fungi Associated with the Red Algae *Pterocladia capillacea* from Northern Taiwan. *Antioxidants*, 13(3), 336. (IF: 6, Chemistry & medicinal, 89.6%)
3. 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%)
4. Gowri Krishna Girija, Li-Chun Tseng, Yu-Ling Chen, Pei-Jie Meng, Jiang-Shiou Hwang and **Ying-Ning Ho***. **2023**. Microbiome variability in invasive coral (*Tubastraea aurea*) in response to diverse environmental stressors. *Frontiers in Marine Science*, 10:1234137. (IF: 2.8, MARINE & FRESHWATER BIOLOGY, 88.7%)
5. Priyanka Muthu, Yun-Cheng Lee, Gowri Krishna Girija, Yu-Ling Chen, **Ying-Ning Ho*** and Jiang-Shiou Hwang*. **2023**. Bacterial community responses of the hydrothermal vent crab *Xenograpsus testudinatus* fed on microplastics. *Frontiers in Ecology and Evolution*, 11:1203647. (Co-corresponding author) (IF: 2.4, ECOLOGY, 58.2%)
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. (IF: 12.2, Environmental Sciences, 96.8%) (Co-corresponding author).
7. Ching-Chih Lin, Sin Yong Hoo, Li-Ting Ma, Chih Lin, Kai-Fa Huang, **Ying-Ning Ho**, Chi-Hui Sun, Han-Jung Lee, Pi-Yu Chen, Lin-Jie Shu, Bo-Wei Wang, Wei-Chen Hsu, Tzu-Ping Ko, and Yu-Liang Yang*. **2022**. Integrated omics approach to unveil antifungal bacterial polyynes as acetyl-CoA acetyltransferase inhibitors. *Communications Biology*, 5(1), 1-8. (IF: 5.2, Biology, 88.5%).
8. Tse-Yen Liu, Chao-Han Chen, Yu-Liang Yang, Isheng J. Tsai, **Ying-Ning Ho***, and Chia-Lin Chung*. **2022**. The brown root rot fungus *Phellinus noxius* affects microbial communities in different root-associated niches of *Ficus* trees.

- Environmental microbiology*, 24(1), 276-297. (IF: 4.3, Microbiology, 73%) **(Co-corresponding author)**
9. **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*, 6(4), e00748-21. (IF: 5, Microbiology, 82.3%) **(One of sponsored collections of mSystems 2021 early-career scientists)**
 10. Shang-Tse Ho†, **Ying-Ning Ho**†, Chih Lin, Wei-Chen Hsu, Han-Jung Lee, Chia-Chi Peng, Han-Tan Cheng and Yu-Liang Yang*. **2021**. Integrated Omics Strategy Reveals Cyclic Lipopeptides Empedopeptins from *Massilia* sp. YMA4 and Their Biosynthetic Pathway. *Marine drugs*, 19(4), 209. (IF: 4.9, Pharmacology&Pharmacy, 87.4%) **(Co-first author)**
 11. **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. *ISME Journal*, 15(6), 1858-1861. (IF: 10.8, Ecology, 98.2%).
 12. Chongyang Yang; **Ying-Ning Ho**; Chihiro Inoue; Mei-Fang Chien*. **2020**. Long-term effectiveness of microbe-assisted arsenic phytoremediation by *Pteris vittata* in field trials. *Science of the Total Environment*, 740, 140137. (IF: 8.2, Environmental Sciences, 91.5%).
 13. Chongyang Yang, **Ying-Ning Ho**, Ryota Makita, Chihiro Inoue, Mei-Fang Chien*. **2020**. *Cupriavidus basilensis* strain r507 , a potential toxic arsenic extraction helper, increases the accumulation of arsenic in *Pteris vittata*. *Ecotoxicology and Environmental Safety*, 190, 110075. (IF: 6.2, TOXICOLOGY, 92.0%)
 14. Chongyang Yang, **Ying-Ning Ho**, Ryota Makita, Chihiro Inoue, Mei-Fang Chien* **2020**. A multifunctional rhizobacterial strain with wide application in different ferns facilitates arsenic phytoremediation. *Science of the Total Environment*, 712, 134504. (IF: 8.2, Environmental Sciences, 91.5%).
 15. Mei-Fang Chien, **Ying-Ning Ho**, Hui-Erh Yang, Masaru Narita, Keisuke Miyauchi, Ginro Endo, Chieh-Chen Huang*. **2019**. Identification of a Novel Arsenic Resistance Transposon Nested in a Mercury Resistance Transposon of *Bacillus* sp. MB24. *Microorganisms*, 7(11): 566. (IF: 4.1, Microbiology, 69.9%)
 16. Chongyang Yang, Mei-Fang Chien, **Ying-Ning Ho**, Chihiro Inoue. **2019**. Phosphorus- and iron-deficiency stresses affect arsenic accumulation and root exudates in *Pteris vittata*. *International Journal of Environmental Science and Development*. 10: 12.
 17. Mei-Fang Chien, **Ying-Ning Ho**, Hui-Tzu Lin, Kuo-Hsing Lin, Ginro Endo, Chieh-Chen Huang*. **2019**. MerB3, an organomercurial lyase of *Bacillus* as an antidote against organomercurial poisoning. *Journal of Environmental Biotechnology*. 19(1): 73-80.
 18. **Ying-Ning Ho**, Hsin-Chi Tsai, Bing-Mu Hsu*, and Chien-Shun Chiou. **2018**. The association of *Salmonella enterica* from aquatic environmental and clinical samples in Taiwan. *Science of the Total Environment*. 15(624): 106-113. (IF: 8.2, Environmental Sciences, 91.5%).
 19. **Ying-Ning Ho**, Lin-Jie Shu and Yu-Liang Yang*. **2017**. Imaging mass spectrometry for metabolites: technical progress, multimodal imaging and biological interactions. *Wiley interdisciplinary Reviews-Systems Biology and Medicine*. Doi: 10.1002/wsbm.1387. (IF: 7.9, medicine, research & experimental, 83.5%)
 20. **Ying-Ning Ho**, Ming-Yuan Chou, Hsin-Chi Tsai, Tung-Yi Huang, Cheng-Wei Fan, and Bing-Mu Hsu*. **2017**. Empirical testing of modified *Salmonella* MLST in aquatic environmental samples by *in silico* analysis. *Science of the Total Environment* 581-582:378-385. (IF: 8.2, Environmental Sciences, 91.5%).

21. Wen-Chien Huang, Yi-Pen Chou, Po-Min Kao, Tsui-Kang Hsu, Hung-Chang Su, **Ying-Ning Ho**, Yi-Chun Yang, Bing-Mu Hsu*. **2016**. Nested-PCR and TaqMan real-time quantitative PCR assays for human adenoviruses in environmental waters. *Water Science and Technology*. 73(8): 1832-4. DOI: 10.2166/wst.2016.004 (IF: 2.7, Water Resources)
22. Wen-Chien Huang, Bing-Mu Hsu*, Po-Min Kao, Chi-Wei Tao, **Ying-Ning Ho**, Chun-Wei Kuo, Yu-Li Huang. **2016**. Seasonal distribution and prevalence of diarrheagenic *Escherichia coli* in different aquatic environments in Taiwan. *Ecotoxicology and Environmental Safety*. 124:37-41. (IF: 7.129, Environmental Sciences)
23. Chi-Wei Tao, Bing-Mu Hsu*, Po-Min Kao, Wen-Chien Huang, Tsui-Kang Hsu, **Ying-Ning Ho**, Yen-Ju Lu and Cheng-Wei Fan. **2016**. Seasonal difference of human adenoviruses in a subtropical river basin based on one-year monthly survey. *Environmental Science and Pollution Research*. 23:2928–2936 (IF: 5.19, Environmental Sciences)
24. Zhon-Min Huang, Bing-Mu Hsu*, Po-Min Kao, Tien-Yu Chang, Tsui-Kang Hsu, **Ying-Ning Ho**, Yi-Chun Yang, Yu-Li Huang. **2015**. Prevalence, quantification and typing of human adenoviruses detected in river water in Taiwan. *Environmental Science and Pollution Research*. 22(11): 8359-8366. (IF: 5.19, Environmental Sciences)
25. **Ying-Ning Ho**, Chieh-Chen Huang*. **2015**. Draft Genome Sequence of *Burkholderia cenocepacia* Strain 869T2, a Plant-Beneficial Endophytic Bacterium. *Genome Announcements*. 12;3(6). pii: e01327-15.doi:10.1128/genomeA.01327-15.
26. Dony Chacko Mathew, **Ying-Ning Ho**, Ronnie Gicaraya Gicana, Gincy Marina Mathew, Mei-Chieh Chien, Chieh-Chen Huang*. **2015**. A rhizosphere-associated symbiont, *Photobacterium* spp. strain MELD1, and its targeted synergistic activity for phytoprotection against mercury. *Plos One*. 10(3): e0121178.doi: 10.1371/journal.pone.0121178 (IF: 3.752, Multidisciplinary Sciences)
27. **Ying-Ning Ho**, Hsing-Mei Chiang, Chih-Ping Chao, Ching-Chung Su, Hui-Fang Hsu, Chen-tong Guo, Ju-Liang Hsieh, Chieh-Chen Huang*. **2015**. *In planta* biocontrol of soil-borne Fusarium wilt of banana through a plant endophytic bacterium, *Burkholderia cenocepacia* 869T2. *Plant and soil* 387:295-306 (IF: 4.993, Agronomy)
28. **Ying-Ning Ho**, Ju-Liang Hsieh, Chieh-Chen Huang*. **2013**. Construction of a plant-microbe phytoremediation system: combination of vetiver grass with a functional endophytic bacterium, *Achromobacter xylosoxidans* F3B, for aromatic pollutants removal. *Bioresource Technology* 145:43-47. (IF: 11.889, Environmental Engineering)
29. **Ying-Ning Ho**, Dony C Mathew, Shu-Chuan Hsiao, Chun-Hao Shih, Mei-Fang Chien, Hsing-Mei Chiang, Chieh-Chen Huang*. **2012**. Selection and application of endophytic bacterium *Achromobacter xylosoxidans* strain F3B for improving phytoremediation of phenolic pollutants. *Journal of Hazardous Materials* 219-220:43-49. (IF: 12.2, Environmental Sciences, 96.8%)
30. **Ying-Ning Ho**, Chun-Hao Shih, Shu-Chuan Hsiao, Chieh-Chen Huang*. **2009**. A novel endophytic bacterium, *Achromobacter xylosoxidans*, helps plants against pollutant stress and improves phytoremediation. *Journal of Bioscience and Bioengineering* 108: 94. (Part of special issue: APBioChEC2009) (IF: 3.185, Biotechnology & applied microbiology)
31. Fo-Ting Shen, Jyun-Liang Lin, Chieh-Chen Huang, **Ying-Ning Ho**, A.B. Arun, Li-Sen Young, Chiu-Chung Young*. **2009**. Molecular detection and phylogenetic analysis of the catechol 1,2-dioxygenase gene from *Gordonia* spp. *Systematic and Applied Microbiology* 32: 291-300. (IF: 4.064, Biotechnology & applied microbiology)

