

Mei-Fang Lin

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In the context of global climate change, my research focuses on the evolutionary biology of early-branching marine organisms, such as cnidarians and echinoderms. I investigate their molecular responses to environmental stressors to better understand how anthropogenic influences, particularly those driving climate change, affect marine life. Ultimately, my goal is to contribute to the conservation and resilience of marine ecosystems through molecular and evolutionary insights.

Professional Employment

2023.8 - current	Assistant professor Marine Genomics and Evolution Laboratory Department of Marine Biotechnology and Resources, National Sun Yat-sen University
2024.08 - current	Director Division of Continuing Education, National Sun Yat-sen University
2020.8 - 2023.8	Assistant professor Marine Genomics and Evolution Laboratory Doctoral Degree Program in Marine Biotechnology, National Sun Yat-sen University
2017.5 - 2020.7	Postdoctoral researcher Evolutionary Neurobiology Unit Okinawa Institute of Science and technology

Education

2012 - 2017	PhD (Biochemistry) Comparative Genomics Centre and Department of Molecular and Cell Biology, James Cook University / ARC Center of Excellence for Coral Reef Studies, Townsville, Australia
2006 - 2008	M.Sc (Marine Biology) Institute of Oceanography, National Taiwan University, Taipei, Taiwan

Research Interest

Marine genomics, Population genetics, Molecular evolution

Publications (2021-present; *correspondance)

1. Lin Y.Y., Uchida T., Shinzato C., Kuo C.Y., Keshavmurthy S., Yang S.Y., Wang J.T., Chen C.A.*, **Lin M.F.***. (2026). Transcriptional responses of reef-building coral *Leptoria phrygia* to localized thermal anomalies: a seasonal and experimental approach. Scientific Reports. In press.
2. Chiang Y.T., Lin Y.Y., Yang C., Wang M.R., Fan F.D., Liao X.Y., Hsieh H.Y., **Lin M.F.*** (2026). Integrated molecular and genetic insights into bald sea urchin disease in *Tripneustes gratilla* (Linnaeus, 1758). Aquaculture Reports. 48, 103538.
3. Cowman, P. F., Bridge, T. C. L., Ainsworth, T. D., Benzoni, F., Bonito, V., Budd, A., Cabaitan, P., Camp, E. F., Chen, C. A., Connolly, S. R., Crosbie, A. J., Figueiredo, J., Fenner, D., Forsman, Z., Fukami, H., Head, C. E. I., Hoeksema, B. W., Huang, D., Kitahara, M. V., Knowlton, N., Kuo, C.-Y., **Lin, M. F.**, ... Baird, A. H. (2026). Modern Coral Taxonomy Requires Reproducible Data Alongside Field Observations—Comments on Veron et al. (2025). Diversity, 18(2), 60.
4. **Lin M. F.***, Yap, W. L. N. (2025). Updated redescription and transcriptomic insights into *Anthopleura nigrescens* (Verrill, 1928) (Cnidaria, Actiniaria) from shallow-water hydrothermal vents at Kueishan Island and rocky shores in the Western Pacific. Zoological Studies 64:46.
5. Kang D. R., Kuo M. Y., Chang S.K., Wu J. Y., Liao T. Y., **Lin M. F.**, Chao S. M., Liu L. L.* (2025) Contrasting Structural Changes in Two Benthic Invertebrate Communities After an Extraordinary Rainfall Event in Liuqiu Island, Taiwan. Zoological Studies 64:23.
6. **Lin M. F.***, Liu, L. L., Chen, C. T. (2025). Transcriptomics of the *Anthopleura* sea anemone reveals unique adaptive strategies to shallow-water hydrothermal vent. Ecology and Evolution, 15:e71252.
7. **Lin M. F.***, Yang, M. C., Lin, Y. Y., Chung, S. C., & Liu, L. L. (2024). Phylogeny and genetic diversity of *Echinometra* sea urchin in Taiwan. Marine Biology Research, 1-15.
8. Hayakawa E., Guzman C., Horiguchi O., Kawano C., Shiraishi A., Mohri K., **Lin M. F.**, Nakamura R., Nakamura R., Kawai E., Komoto S., Jokura K., Shiba K., Shigenobu S., Satake H., Inaba K., Watanabe H.* (2022) Mass spectrometry of short peptides reveals common features of metazoan peptidergic neurons. Nature Ecology and Evolution 6, 1438-1448.

Fellowships

Taiwan International Coral Reefs Society

Awards

2024, 2025 NSYSU Highly Cited Papers and Scholars

2025 NSYSU Industry-Academia Collaboration Incentive Award