Mei-Fang Lin

Marine Genomics and Evolution Laboratory

There are many ways to learn about the ocean. We study molecular biology of marine organisms including their evolutionary history and molecular responses under the environmental changes.

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Assistant Professor (2020-current) Doctoral Degree Program in Marine Biotechnology, National Sun Yat-sen University, Taiwan

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Research interest:

Molecular genetics,

Genomics,

Transcriptomics,

Evolution,

Phylogenetics

Publications:

1. Mason B., Cooke I., Moya A., Augustin R., **Lin M.-F.,** Satoh N., Bosch T.C.G. Bourne D.G., Hayward D.C., Adrade N., Forêt S., Ying H., Ball E.E., Miller D.J. (2021) AmAMP1 from *Acropora millepora* and damicornin define a family of coral-specific antimicrobial peptides related to the Shk toxins of sea anemones. Developmental and Comparative Immunology 114: 103866.

2**. Lin M.-F.**, Takahashi S., Forêt S., Davy S., Miller D.J. (2019) Transcriptomic analyses highlight the likely metabolic consequences of colonization of a cnidarian by native or non-native *Symbiodinium* species. Biology Open 8: bio038281.

3. Luzon K.S., **Lin M.-F.**, Ablan Lagman M.C.A., Licuanan W.R.Y., Chen C.A. (2017) Resurrecting a subgenus to genus: molecular phylogeny of *Euphyllia* and *Fimbriaphyllia* (order Scleractinia; family Euphyllidae; clade V). PeerJ 5:e4074. (Co-first author).

4. **Lin M.-F.**, Moya A., Ying H., Chen C.A., Cooke I., Ball E., Forêt S., Miller D. (2017) Analyses of corallimorpharian transcriptomes provide new perspectives on the evolution of calcification in the Scleractinia (corals). Genome Biology and Evolution 9: 150-160.

5. **Lin M.-F.**, Chou W.-H., Kitahara M.V., Chen C.A., Miller D.J., Forêt S. (2016) Corallimorpharians are not “naked corals”: insights into relationships between Scleractinia and Corallimorpharia from phylogenomic analyses. PeerJ 4:e2463.

6. Capel K.C.C., Migotto A.E., Zilberberg C., **Lin M.-F.**, Forsman Z., Miller D.J., Kitahara M.V. (2016) Complete mitochondrial genome sequences of Atlantic representatives of the invasive Pacific coral species *Tubastraea coccinea* and *T. tagusensis* (Scleractinia, Dendrophylliidae): implications for species identification. Gene 590:270-277.

7. **Lin M.-F.,** Kitahara M.V., Luo H., Tracey D., Geller J., Fukami H, Miller D.J., Chen C.A. (2014) Mitochondrial genome rearrangements in the Scleractinia / Corallimorpharia complex: implications for coral phylogeny. Genome Biology and Evolution 6:1086-1095.

8. Kitahara M.V., **Lin M.-F.**, Forêt S., Huttley G., Miller D.J., Chen C.A. (2014) The “naked coral” hypothesis revisited: evidence for and against scleractinian monophyly. PLoS ONE 9:e94774. (Co-first author).

9. **Lin M.-F.,** Chen C.A., Miller D.J. (2013) Asexual reproduction by marginal budding in the tropical corallimorpharian, *Ricordea yuma* (Corallimorpharia: Ricordeidae). Galaxea, Journal of Coral Reef Studies 15:1-2.

10. **Lin M.-F.**, Kitahara M.V., Tachikawa H., Fukami H., Chen C.A. (2012) Novel organization of the mitochondrial genome in deep-sea coral *Madrepora oculata* (Hexacorallia, Scleractinia, Oculinidae) and its taxonomic implications. Molecular Phylogenetics and Evolution 65:323-328.

11. **Lin M.-F**., Kitahara M.V., Tachikawa H., Keshavmurthy S, Chen C.A. (2012) A new shallow-water *Polycyathus*, *Polycyathus chaishanensis* sp. nov. (Scleractinia; Caryophylliidae) from Chaishan, Kaohsiung, Taiwan. Zoological Studies 51:213-221.

12. Reimer J.D., **Lin M.-F**, Fujii T., Lane D.J.W., Hoeksema B.W. (2012) The phylogenetic position of the solitary zoanthid genus *Sphenopus* (Cnidaria: Hexacorallia). Contributions to Zoology 81:43-54.

13. **Lin M.-F.,** Luzon K.S., Licuanan W.Y., Ablan-Lagman M.C., Chen C.A. (2011) Seventy-four universal primers for characterizing the complete mitochondrial genomes of scleractinian corals (Cnidaria; Anthozoa). Zoological Studies 50:513-524.