

Unit Name

Marine Eco-Evo-Devo Unit
Professor Vincent P Laudet

Students Supervised:

- Emma Laura Isabelle Denise Gairin (PhD Student)
- Yuki Tara (PhD Student)
- Noah Jasmine MacKenzie Locke (PhD Student)
- Ethan Thomas Rickards (PhD Student)
- Jann Zwahlen (PhD Student)
- Hsiao-Chian Chen (PhD Student)
- Joy Savanagouder (Research Intern)
- Bryan Gabriel Tan (Research Intern)
- Brian Mitsuki Ishii (Research Intern)
- Camille Aline Elise Sautereau (Visiting Research Student)

Scholarly Contributions and Creative Productions (by Faculty)

Book Chapter

1. Laudet, V. P.; Heyland, A.; Khalturin, K.
Complex Life Cycles Across Animal Diversity. In *Life History Evolution*; CRC Press, 2025.

Journal Article

1. Maeda, K.; Kobayashi, H.; Uchida, T.; Shinzato, C.; Koyanagi, R.; Nagano, A. J.; Satoh, N.; Laudet, V.
Genetic Isolation of an Amphidromous Goby Species, *Luciogobius Ryukyuensis*, Highlights Limited Gene Flow in Small Island Populations. *Scientific Reports* 2025, 15, 24193.
2. Miyake, M.; Chen, H.-C.; Salis, P.; Hall, M.; Humbel, B. M.; Miura, S.; Reiter, S.; Laudet, V.; Klann, M.
Anemonefish Chromatophore Distribution and Organization Revealed by TEM Studies. *Zoological Science* 2025, 42, 389–399.
3. Herrera, M.; Vianello, S.; Mitchell, L.; Chamot, Z.; Lorin-Nebel, C.; Bonnelye, E.; Roux, N.; Besseau, L.; Gibert, Y.; Laudet, V.
From Genes to Pathways: A Curated Gene Approach to Accurate Pathway Reconstruction in Teleost Fish Transcriptomics. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 2025, 344, 303–317.
4. Reynaud, M.; Vianello, S.; Lee, S. H.; Salis, P.; Wu, K.; Frederich, B.; Lecchini, D.; Besseau, L.; Roux, N.; Laudet, V.
The Multi-Level Effect of Chlorpyrifos during Clownfish Metamorphosis. *Molecular and Cellular Endocrinology* 2025, 603.

5. Huang, D.; Kapadia, E. H.; Liang, Y.; Shriver, L. P.; Dai, S.; Patti, G. J.; Humbel, B. M.; Laudet, V.; Parichy, D. M.
Agouti and BMP Signaling Drive a Naturally Occurring Fate Conversion of Melanophores to Leucophores in Zebrafish. *Proceedings of the National Academy of Sciences* 2025, 122, e2424180122.
6. Miyake, M.; Chen, H.-C.; Salis, P.; Hall, M.; Humbel, B. M.; Miura, S.; Reiter, S.; Laudet, V.; Klann, M.
Anemonefish Chromatophore Distribution and Organization Revealed by TEM Studies. *Zoological Science* 2025, 42, 389.
7. Mercader, M.; Ziadi-Künzli, F.; Olivieri, S.; Komoto, S.; Rosti, M. E.; Frédéricich, B.; Laudet, V.
Integrative Phenotyping Reveals New Insights into the Anemonefish Adaptive Radiation. *Current Biology* 2025, 35, 3473–3487.e4.
8. Laudet, V. P.; Roux, N.; Delannoy, C.; Yu, S.-Y.; Miura, S.; Carlu, L.; Besseau, L.; Nakagawa, T.; Chihiro Sato, C.; Kitajima, K.; Guerardel, Y.
Anemonefish Use Sialic Acid Metabolism as Trojan Horse to Avoid Giant Sea Anemone Stinging. 2025.

Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Ken Maeda	Book Chapter	Exploring Fry Biology		Biological Research Publishing	2025
Emma Gairin	Journal Article	Pathways to an integrated understanding of marine environments and ecosystems in the Asia-Pacific Region	Frontiers in Marine Science	Frontiers in Marine Science	2025-10-23
Emma Gairin	Journal Article	Highlighting competitive interactions between algae, corals, and herbivores in Bora Bora (French Polynesia)	Marine Biology	Springer Nature	2025
Manon Mercader	Journal Article	Testing Bivalve Species as Potential Hosts for <i>Haplosporidium pinnae</i> , The Parasite Responsible for the Highly Endangered Status of the Fan Mussel <i>Pinna nobilis</i>	Journal of Shellfish Research	BioOne	2024
Jann Zwahlen	Poster Presentation at Conference	Sea anemones affect more than "just" the pigmentation in the anemonefish <i>Amphiprion clarkii</i>	WPMB2024		2024-4/23
Ken Maeda	Poster Presentation at Conference	Migratory patterns of freshwater gobies in Palawan, Philippines			2025
Ken Maeda	Presentation at Conference	Reevaluation of diagnostic characters and distribution of species in the <i>Oligolepis</i>	2025 Annual Meeting of the Ichthyological Society of Japan		
Jann Zwahlen	Presentation at Conference	To be or not to be a new species: The case of the isolated Clark's anemonefish from Ogasawara, Japan	IPFC2025		
Jann Zwahlen	Presentation at Conference	Genetic signatures of a very isolated Clark's anemonefish population	SICB 2025		2025-1/6
Jann Zwahlen	Presentation at Conference	The influence of host anemones on the anemonefish <i>Amphiprion clarkii</i>	ESJ72		2025-3/18
Ken Maeda	Presentation at Conference	Egg size variation of species in the genus <i>Rhinogobius</i>	12th Indo-Pacific Fish Conference		2025

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Ken Maeda	Presentation at Conference	Revised diagnoses of the <i>Luciogobius grandis</i> complex	12th Indo-Pacific Fish Conference		
Ken Maeda	Presentation at Conference	Phylogeography of two gobioid fish, <i>Luciogobius guttatus</i> and <i>Luciogobius ryukyuensis</i> along the coast of Japan	12th Indo-Pacific Fish Conference		
Ken Maeda	Seminars	<i>Rhinogobius</i> species found in the Philippines	Gori Research Meeting 2025		

Outreach Activities [For Unit Members Only]

Term 2 2025

Marleen Klann, OIST Science Festival , OIST [Fiscal Year: 2024-04-01]