

FULL PUBLICATION LIST *Les post-doctorants, les doctorants, les étudiants en Master et les étudiants ERASMUS de mon groupe de recherche sont surlignés en bleu*

Book chapters:

- Gorman, L.M.**, Byrne, M., Beldade, R., Adjerdoud, M., Dumas, P., **Mills, S.C.** **2025**. The use of new biologically based technological development in the management of crown of thorns sea stars. In: "The Future of Coral Reefs" Springer Nature Switzerland. pp 123-151. doi: 10.1007/978-3-031-98584-3_7
- Dubé, C.E., Pogoreutz, C., Reverter, M., Boitel, C., **Mills, S.C.**, Aqua, A., Hédouin., L. & Brahmi, C. **2025**. Bleaching of reef organisms: Current knowledge, challenges, and future directions into the anthropocene In: "The Future of Coral Reefs" Springer Nature Switzerland. pp 41-72. doi: 10.1007/978-3-031-98584-3_4
- Beldade, R., Bernardi. G. & **Mills, S.C.** **2022**. Anemonefish reproduction: hormones and behaviour. In: "Evolution, Development and Ecology of Anemonefishes: Model Organisms for Marine Science" Eds. Laudet, V. & Ravasi, T. CRC Press, New York.
- Lecchini, D., **Mills, S.C.**, & **Beldade, R.** **2016**. Reproduction and Larval recruitment in Damselfishes. In: *Biology of Damselfishes* Ed.: Frédérick, B., Parmentier, E. CRC Press, New York. ISBN: 9781315373874. doi: 10.1201/9781315373874
- Mills, S.C.**, **Mokkonen, M.**, Koskela, E. & Mappes, T. **2014** GEIs and reliable signaling of male quality in bank voles. In: *Genotype-by-Environment Interactions and Sexual Selection* Eds.: Hunt, J. & Hosken, D. Wiley Blackwell, Oxford. ISBN: 978-0-470-67179-5

Current manuscripts in review:

112. Gibson, M.K., De Jode, A., **Mills, S.C.**, Beldade, R., Meyer, C.P., Quattrini, A.M., Berumen, M.L., Rodríguez, E. & Titus, B.M. *In review* Ecological and phylogeographic sampling reveals cryptic diversity in the clownfish-hosting sea anemone *Radianthus magnifica* across the Indo-West Pacific.
111. Harding, H.R., **Weschke, E.**, Gordon, T.A.C., Nedelec, S.L., Beldade, R., **Mills, S.C.**, Simpson, S.D. & Radford, A.N. *In review*. Chronic motorboat disturbance alters coral reef fish communities. *Current Biology*
110. **Rosén, A.**, **Mills, S.C.** & Norin, T. *In review*. Ontogenetic scaling of growth and metabolic rate in free-living fish in the wild. *Journal of Experimental Biology*
109. **Rosén, A.**, **Storm, Z.**, **Mills, S.C.** & Norin, T. *In review*. Effect of food availability on the ontogenetic (co)scaling of metabolic rate and growth rate in fish. *Proceedings of the Royal Society of London B*
108. **Riesenkamp, P.**, **Storm, Z.**, **Mills, S.C.** & Killen, S.S. *In review*. ShuttleboxR: an R package for data exploration in shuttle-box temperature experiments.
107. Olivares, R., Pérez-Matus, A., Nedelec, S.L., **Williams, B.**, Simpson, S.D., Radford, A.N., **Mills, S.C.** & Beldade, R. *In review*. Giant kelp forests act as natural barriers to motorboat noise. *Marine Pollution Bulletin*
106. Weschke, E., Holder, M., **Schligler, J.**, **Roost, T.**, Hely, I., **Schies, J-A.**, **Williams, B.**, Dworzanski, B., Swearer, S.E., Beldade, R., **Mills, S.C.**, Simpson, S.D. & Radford, A. *In review* Anemonefish and their host anemones exhibit diurnal behaviours at night on artificially lit coral reefs. *Environmental Pollution*
105. **Tiddy, I.**, **Mills, S.C.**, & Killen, S.S., Beldade, R., & Vidal, M. *In review* Artificial light at night affects behavioural responses to a virtual predator in two coral reef fish.
104. **Mills, S.C.**, Beldade, R., Lafaye, J., Lecchini, D., & Vidal., M. *In review* A fully immersive Virtual Reality setup reveals species-specific responses of freely moving coral reef fishes to conspecifics and predators *Methods in Ecology and Evolution* (IF = 6.2; Q1).

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103. De Jode, A., Quattrini, A.M., Chiodo, T., Daly, M., McFadden, C.S., Berumen, M.L., Meyer, C.P., **Mills, S.C.**, Beldade, R., Bartholomew, A., Scott, A., Reimer, J.D., Yanagi, K., Fujii, T., Rodríguez, E. & Titus, B.M. **2026** Phylogenomics resolve evolutionary relationships among host sea anemones and

reveal coincident divergence times with the clownfish adaptive radiation. *Royal Society Open Science* (IF = 3.0; Q1).

102. Simeoni, A., Beldade, R., Mills, S.C., & Clobert, J. **2026**. Resistance to environmental perturbations in a coral reef fish: a life-cycle analysis. *Proceedings of the Royal Society of London B* (IF = 3.5; Q1)
 101. Legain, M., Lopes Damasceno, T., Chaïb, S., Reverter, M., Gauthier, H., Moldenhauer, C. S., Hueso-Jiménez, P.I., Mills, S.C., Raviglione, D., Räddecker, N. and Tapissier-Bontemps, N. & Pogoreutz, C. **2026**. Chilling injury to algal symbionts induces host starvation and metabolic reorganization in a temperate cnidarian. *Molecular Ecology*
 100. Roost, T., Campbell-Hooper, E., Zuberer, F., Beldade, R., Jones, T., Mills, S.C. & Swearer, S. **2026** Beyond the curfew: Diurnal coral reef fish experience higher nocturnal predation risk in the wild when exposed to artificial light at night. *Marine Pollution Bulletin* 10.1016/j.marpolbul.2026.120232
 99. Morgan S. Pratchett, M.S., Caballes, C.F., Byrne, M., Mills, S.C., Fletcher, C. & Bonin, M.C. **2026** Renewed research interest in crown-of-thorns starfish (*Acanthaster* spp.) reflecting the increasing imperative to manage ongoing coral loss. *Coral Reefs* (IF = 3.3; Q1).
 98. Tiddy, I., Vidal, M., Mills, S.C., Beldade, R. & Killen, S.S. **2026** Artificial light at night suppresses the metabolic response of a coral reef fish to a virtual predator. *Conservation Physiology* 14(1), coag045. (IF = 3.25; Q1). doi:10.1093/conphys/coag045.
 97. Tiddy, I., Killen, S.S. & Mills, S.C. **2026** Effects of artificial light at night on the diurnal risk-taking behaviour of a gregarious reef fish. *Marine Ecology Progress Series* 786, 1-14. (IF = 2.5; Q1). doi:10.3354/meps15137.
 96. Fakan, E.P. McCormick, M.I., Dubuc, A., Motti, C.A., Mills, S.C., Berumen, M.L., Hoey, A.S. **2026** Coral bleaching impacts cortisol levels of coral reef fishes *Coral Reefs* 1-10. (IF = 3.3; Q1). doi: 10.1007/s00338-026-02875-2
 95. Schligler, J., McBride, M., Salvi, P., Carpentier, C., Guillaume, T., Beldade, R. & Mills, S.C. **2026** Coral degradation alters the community diversity and stability of coral-dwelling assemblages following recruitment. *Marine Ecology Progress Series*, 780, 1-10 (IF = 2.5; Q1). doi: [10.3354/meps15081](https://doi.org/10.3354/meps15081)
 94. Schligler, J., Roost, T., Schies, J.-A., McBride, M., Swearer, S.E., Beldade, R. & Mills, S.C. **2026**. Artificial light at night impacts multiple fitness traits in wild adult fish and intergenerational effects on offspring. *Proceedings of the Royal Society of London B* 293: 2064. (IF = 3.9; Q1) doi: 10.1098/rspb.2025.2225
 93. Rosén, A., Andreassen, A.H., Storm, Z., Exsteen, J., Raqbi, S., Beldade, R., Mills, S.C. & Norin, T. **2026**. Co-variation and trade-offs in ontogenetic scaling of growth and metabolic rates. *Communications Biology* 9: 338 (IF = 5.2; Q1). doi: 10.1038/s42003-026-09588-w
 92. Schligler, J., Boitel, C., Norin, T. McBride, M., Morat, F., Killen, S.S., Gorman, L., Swearer, S.E., Beldade, R. & Mills, S.C. **2026**. Light pollution acts as an ecological trap: fish larvae settle more into harmful habitats. *Global Change Biology* 32: 1 (IF = 12.1; Q1). 32:e70645 <https://doi.org/10.1111/gcb.70645>
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91. Gorman, L.M., Huffmyer, A.S., Byrne, M., Mills, S.C. & Putnam, H.M. **2025**. Coral venom and toxins as protection against crown-of-thorns sea star attack. *Molecular Ecology* 35: 1 (IF = 5.4; Q1). doi: 10.1111/mec.70202
 90. Clerissi, C., Mejait, A., Haguénauer, A., Jobet, E., Titus, B., Beldade, R. & Mills, S.C. **2025**. Microbiota of host sea anemones and their associated anemonefish show contrasting responses to a bleaching event. *Coral Reefs*, 1-14 (IF = 3.3; Q1). doi: 10.1007/s00338-025-02799-3
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