

# Ocean Science Center

Publications in 2025

Smithsonian Marine Station Fort Pierce

**Sneed, Jennifer M.**, Campbell, Justin E., Looby, Audrey, Giorgi, Aurora, and **Paul, Valerie J.** 2025. "Varying effects of climate change on the photosynthesis and calcification of crustose coralline algae: Implications for settlement of coral larvae." *Climate Change Ecology*, 9. <https://doi.org/10.1016/j.ecochg.2024.100090>.

Demko, Alyssa M., **Sneed, Jennifer M.**, Houk, Lawrence J., Vekich, Tessa, and **Paul, Valerie J.** 2025. "The effects of probiotics and stony coral tissue loss disease exposure on coral recruits." *Coral Reefs*, <https://doi.org/10.1007/s00338-024-02610-9>.

Mallon, J. E., Altieri, A. H., Cyronak, T., Melendez-Declat, C., **Paul, Valerie J.**, and Johnson, M. D. 2025. "Sublethal changes to coral metabolism in response to deoxygenation." *Journal of Experimental Biology*, <https://doi.org/10.1242/jeb.249638>.

Demko, Alyssa M., **Sneed, Jennifer M.**, Houk, Lawrence J., Vekich, Tessa, and **Paul, Valerie J.** 2025. "Correction to: The effects of probiotics and stony coral tissue loss disease exposure on coral recruits." *Coral Reefs*, <https://doi.org/10.1007/s00338-025-02622-z>.

Elsadek, Lobna A., Seabra, Gustavo, **Paul, Valerie J.**, and Luesch, Hendrik. 2025. "Grassystatin G, a new cathepsin D inhibitor from marine cyanobacteria: discovery, synthesis, and biological characterization." *RSC Medicinal Chemistry*, <https://doi.org/10.1039/D5MD00017C>.

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Aeby, Greta Smith, Kiryu, Yasunari, Landsberg, Jan, Ushijima, Blake, Jones, Scott, Houk, L. J., Kuehl, Joseph, and **Paul, Valerie J.** 2025. "[Progressive chronic tissue loss disease in \*Siderastrea siderea\* on Florida's coral reef](#)." *PLOS One*, 20, (8). <https://doi.org/10.1371/journal.pone.0329911>.

Al-Awadhi, Fatma, Ratnayake, Ranjala, **Paul, Valerie J.**, and Luesch, Hendrik. 2025. "[Discovery of anti-inflammatory cyanobacterial secondary metabolites targeting the Keap1/Nrf2 pathway](#)." *Phytochemistry Letters*, 69. <https://doi.org/10.1016/j.phytol.2025.103359>.

Demko, Alyssa M., Sneed, Jennifer M., Houk, Lawrence J., Vekich, Tessa, and **Paul, Valerie J.** 2025. "[The effects of probiotics and stony coral tissue loss disease exposure on coral recruits](https://doi.org/10.1007/s00338-024-02610-9)." *Coral Reefs*, <https://doi.org/10.1007/s00338-024-02610-9>.

Ellis, Emma K., Gunasekera, Sarath P., Kokkaliari, Sofia, **Paul, Valerie J.**, and Luesch, Hendrik. 2025. "[Anaemic and tumoric acids, new functionalized fatty acids from marine cyanobacteria, inhibit quorum sensing in \*Pseudomonas aeruginosa\*](https://doi.org/10.1007/s00044-025-03494-2)." *Medicinal Chemistry Research*, 34, (11) 2350-2361. <https://doi.org/10.1007/s00044-025-03494-2>.

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Mallon, J. E., Altieri, A. H., Cyronak, T., Melendez-Declat, C., **Paul, Valerie J.**, and Johnson, M. D. 2025. "[Sublethal changes to coral metabolism in response to deoxygenation](https://doi.org/10.1242/jeb.249638)." *Journal of Experimental Biology*, <https://doi.org/10.1242/jeb.249638>.

**Paul, Valerie J.** 2025. "[Marine chemical ecology and natural products research in our changing ocean](https://doi.org/10.1016/j.phytol.2025.103128)." *Phytochemistry Letters*, 69. <https://doi.org/10.1016/j.phytol.2025.103128>.

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Duijnhoven, Hannah J., De Fouw, Jimmy, Frazer, Thomas K., Glazner, Rachael, Goeke, Janelle A., Gort, Gerrit, Heck, Kenneth L., Kramer, Olivier A. A., van de Leemput, Ingrid A., Manuel, Sarah A., Martin, Charles W., Martinez López, Isis G., McDonald, Ashley M., Munson, Calvin J., O'Shea, Owen R., **Paul, Valerie J.** et al. 2025. "[Temperature Drives Seagrass Recovery Across the Western North Atlantic](https://doi.org/10.1111/gcb.70172)." *Global Change Biology*, 31, (4). <https://doi.org/10.1111/gcb.70172>.

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Tebbett, Sterling B., Cox, Kieran D., **Paul, Valerie J.**, Jones, Scott, Johnson, Maggie D., Duffy, J. Emmett, Hoey, Andrew S., Alarcon, German A. Soler, Edgar, Graham J., and Ling, Scott D. 2025. "[Halos of herbivory, feeding-preference, and predation risk on contemporary Belizean reefs](https://doi.org/10.1007/s00338-025-02738-2)." *Coral Reefs*, <https://doi.org/10.1007/s00338-025-02738-2>.