

Ocean Science Center

Publications in 2024

Smithsonian Marine Station Fort Pierce

Al-Awadhi, Fatma, Kokkaliari, Sofia, Ratnayake, Ranjala, **Paul, Valerie J.**, and Luesch, Hendrik. 2024. "Isolation and Characterization of the Cyanobacterial Macrolide Glycoside Moorenaside, an Anti-Inflammatory Analogue of Aurisides Targeting the Keap1/Nrf2 Pathway." *Journal of Natural Products*, 87, (10). <https://pubs.acs.org/doi/10.1021/acs.jnatprod.4c00420>

Ashey, Jill, McKelvie, Hailey, Freeman, John, Shpilker, Polina, Zane, Lauren H., Becker, Danielle M., Cowen, Lenore, Richmond, Robert H., **Paul, Valerie J.**, Seneca, Francois O., and Putnam, Hollie M. 2024. "Characterizing transcriptomic responses to sediment stress across location and morphology in reef-building corals." *PeerJ*, 12 <https://doi.org/10.7717/peerj.16654>.

Campbell, Justin E., Kennedy Rhoades, O., Munson, Calvin J., Altieri, Andrew H., Douglass, James G., Heck, Kenneth L., **Paul, Valerie J.**, Armitage, Anna R., Barry, Savanna C., Bethel, Enrique, Christ, Lindsey, Christianen, Marjolijn J. A., Dodillet, Grace, **Dutton, Katrina**, Fourqurean, James W., Frazer, Thomas K., Gaffey, Bethany M., Glazner, Rachael, Goeke, Janelle A., Grana-Valdes, Rancel, Jenkins, Victoria J., Kramer, Olivier A. A., Linhardt, Samantha T., Martin, Charles W., López, Isis, Gabriela Martinez et al. 2024. "Herbivore effects increase with latitude across the extent of a foundational seagrass." *Nature Ecology & Evolution*, 8 663–675. <https://doi.org/10.1038/s41559-024-02336-5>.

Canty, Steven W. J., Nowakowski, A. J., Cox, Courtney E., Valdivia, Abel, Holstein, Daniel M., Limer, Benjamin, Lefcheck, Jonathan S., Craig, Nicole, Drysdale, Ian, Giro, Ana, Soto, Mélina, and **McField, Melanie**. 2024. "Interplay of management and environmental drivers shifts size structure of reef fish communities." *Global Change Biology*, 30, (4). <https://doi.org/10.1111/gcb.17257>

Deutsch, Jessica M., Demko, Alyssa M., Jaiyesimi, Olakunle A., Foster, Gabriel, Kindler, Adelaide, Pitts, Kelly A., Vekich, Tessa, Williams, Gareth J., Walker, Brian K., **Paul, Valerie J.**, and Garg, Neha. 2024. "Metabolomic profiles of stony coral species from the Dry Tortugas National Park display inter- and intraspecies variation." *mSystems*, <https://doi.org/10.1128/msystems.00856-24>.

Janiak, Dean S. and **Branson, David R.** 2024. "A reciprocal transplant approach to predation in fouling communities found in natural and artificial habitats." *Marine environmental research*, 196. <https://doi.org/10.1016/j.marenvres.2024.106411>

Kallifidas, Dimitris, Dhakal, Dipesh, Chen, Manyun, Chen, Qi-Yin, Kokkaliari, Sofia, Colon Rosa, Nicole A., Ratnayake, Ranjala, Bruner, Steven D., **Paul, Valerie J.**, Ding, Yousong, and Luesch, Hendrik. 2024. "Biosynthesis of Dolastatin 10 in Marine Cyanobacteria, a Prototype for Multiple Approved Cancer Drugs." *Organic Letters*, 26, (7) 1321–1325.
<https://doi.org/10.1021/acs.orglett.3c04083>.

Monti, M., Giorgi, A., **Paul, Valerie J.**, Gunasekera, Sarath P., Houk, L. Jay, Dugan, Carle, Demarco, Tommy, and Olson, J. B. 2024. "Natural products from Caribbean octocorals demonstrate bioactivity against *Vibrio coralliilyticus* strains." *Coral Reefs*,
<https://doi.org/10.1007/s00338-024-02516-6>.

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<https://doi.org/10.3389/fmars.2023.1298518>.

Swaminathan, Sara D., Meyer, Julie L., Johnson, Maggie D., **Paul, Valerie J.**, Bartels, Erich, and Altieri, Andrew H. 2024. "Divergent responses of the coral holobiont to deoxygenation and prior environmental stress." *Frontiers in Marine Science*, 10.
<https://doi.org/10.3389/fmars.2023.1301474>

Ugarelli, Kelly, Campbell, Justin E., Rhoades, O. K., Munson, Calvin J., Altieri, Andrew H., Douglass, James G., Heck, Kenneth L., **Paul, Valerie J.**, Barry, Savanna C., Christ, Lindsey, Fourqurean, James W., Frazer, Thomas K., Linhardt, Samantha T., Martin, Charles W., McDonald, Ashley M., Main, Vivienne A., Manuel, Sarah A., MarcoMéndez, Candela, Reynolds, Laura K., Rodriguez, Alex, Rodriguez Bravo, Lucia M., Sawall, Yvonne, Smith, Khalil, Wied, William L., Choi, Chang Jae et al. 2024. "Microbiomes of *Thalassia testudinum* throughout the Atlantic Ocean, Caribbean Sea, and Gulf of Mexico are influenced by site and region while maintaining a core microbiome." *Frontiers in Microbiology*, 15.
<https://doi.org/10.3389/fmicb.2024.1357797>