

The Department of Biology had a bumper quarter for research output at the end of 2023. Congratulations to all contributors! Here is a list of the research articles published October through December 2023.

- Barrios, D., S. Arias, L.R. González-Torrez, and L.C. Majure. 2023. **Lista anotada de cactus nativos y naturalizados de Cuba.** *Botanical Sciences*. <https://doi.org/10.17129/botsci.3324>
- Barry, S.C., M.D. Smith, H.J. Brockmann, B. Heres, B.J. Hall-Scharf, T.M. Thomas. 2023. **Water temperature and season length interact to explain a rare non-linear ecogeographic cline in body size.** *Journal of Biogeography*. 00:1-15. DOI: 10.1111/jbi.14730.
- Boyd, A. A., & Seaver, E. C. (2023). **Investigating the developmental onset of regenerative potential in the annelid *Capitella teleta*.** *Invertebrate Biology*. 142(4), e12411. <https://doi.org/10.1111/ivb.12411>
- Byrum SR, Frazier BS, Grubbs RD, Naylor GJP, Fraser GJ. **Embryonic development in the bonnethead (*Sphyrna tiburo*), a viviparous hammerhead shark.** *Developmental Dynamics*. 2023; 1-12. doi:[10.1002/dvdy.658](https://doi.org/10.1002/dvdy.658)
- Clutter CH, Klarman MB, Cajusma Y, Cato ET, Abu Sayeed M, Brinkley L, Jensen O, Baril C, De Rochars VMB, Azman AS, Long MT, Cummings DAT, Leung DT, Nelson EJ. **Population-Based Serologic Survey of Vibrio cholerae Antibody Titers before Cholera Outbreak, Haiti, 2022.** *Emerging Infectious Diseases*. 2023 Sep;29(9):1864-1867. doi: 10.3201/eid2909.230174.
- Flemming, A. D. C. (2023). **Student-focused, career-driven exploration in natural history museums through experiential education and mentorship: A model to intentionally increase the racial and ethnic diversity of students.** *Natural Sciences Education*. 52, e20097. <https://doi.org/10.1002/nse2.20097>
- Marco Hamins-Puertola, Darunee Buddhari, Henrik Salje, Derek A.T. Cummings, Stefan Fernandez, Aaron Farmer, Surachai Kaewhiran, Direk Khampae n, Sopon Iamsirithaworn, Stephen Thomas, Timothy Endy, Anon Srikiatkachorn, Alan L. Rothman, Isabel Rodriguez-Barraquer, Kathryn B. Anderson. **Identifying the role of household immunity in driving individual dengue virus infection risk.** *Nature Microbiology*. Dec. 18th. DOI: 10.1038/s41564-023-01543-3.
- Arik M. Hartmann, Sarah E. McGrath- Blaser, Zuania Colón- Piñeiro and Ana V. Longo. **Ontogeny drives shifts in skin bacterial communities in facultatively paedomorphic salamanders.** *Microbiology* 2023; 169:001399. DOI: 10.1099/mic.0.001399
- Hitchings MDT, Patel EU, Khan R, Srikrishnan AK, Anderson M, Kumar KS, Wesolowski AP, Iqbal SH, Rodgers MA, Mehta SH, Cloherty G, Cummings DAT, Solomon SS. **A Mixture Model for Estimating SARS-CoV-2 Seroprevalence in Chennai, India.** *American Journal of Epidemiology*. 2023 Sep 1;192(9):1552-1561. DOI: [10.1093/aje/kwad103](https://doi.org/10.1093/aje/kwad103)

- Keiser, C. N., Davidson, R., & Pearce, T. A. (2023). **Using museum collections to explore predator–prey relationships in snail-eating beetles (Carabidae: Cychrini).** *Invertebrate Biology*, e12417. <https://onlinelibrary.wiley.com/doi/10.1111/ivb.12417>
- Lillywhite, H.B. and M. Martins, Eds., *Islands and Snakes, Vol. II. Diversity and Conservation.* Oxford University Press.
- Lujan, Ema, R. Nielsen, Z. Short, S. Wicks, W. N. Watetu, L. M. Khasoha, T. M. Palmer, J. R. Goheen, and J. M. Alston. 2023. **Symbiotic acacia ants drive nesting behavior by birds in an African savanna.** *Biotropica*, 00, 1–5. <https://doi.org/10.1111/btp.13276>
- Majure, L.C., L. Bacci, E.R. Bécquer, F.A. Michelangeli, T. Clase, J.D. Skean, Jr., and W.S. Judd. 2023. **Biogeography and diversification of the Caribbean Clade (Miconieae, Melastomataceae): a Cuban origin underlies one of the largest Antillean radiations.** *Biological Journal of the Linnean Society* <https://doi.org/10.1093/biolinnean/blad048>
- O'Driscoll M, Buddhari D, Huang AT, Waickman A, Kaewhirun S, Iamsirithaworn S, Khampaen D, Farmer A, Fernandez S, Rodriguez-Barraquer I, Srikiatkachorn A, Thomas S, Endy T, Rothman AL, Anderson K, Cummings DAT, Salje H. **Maternally derived antibody titer dynamics and risk of hospitalized infant dengue disease.** *Proceedings of the National Academy of Science USA.* 2023 Oct 10;120(41): e2308221120. doi:10.1073/pnas.2308221120.
- Pringle RM, Abraham JO, Anderson TM, Coverdale TC, Davies AB, Dutton CL, Gaylard A, Goheen JR, Holdo RM, Hutchinson MC, Kimuyu DM, Long RA, Subalusky AL, Veldhuis MP. **Impacts of large herbivores on terrestrial ecosystems.** *Current Biology.* 2023 Jun 5;33(11): R584-R610. doi: 10.1016/j.cub.2023.04.024.
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- Smith, D.R., H.J. Brockmann, R.H. Carmichael, E.M. Hallerman, W. Watson, J. Zaldivar-Rae. 2023. **Assessment of recovery potential for the Atlantic horseshoe crab (*Limulus polyphemus*): an application of the IUCN green status process.** *Aquatic Conservation: Marine and Freshwater Ecosystems.* 33 (11): 1175-1199. DOI: 10.1002/aqc.3990
- Soltis, D.E., Tate, J.A., Soltis, P.S. Symonds, V.V. 2023. **Parental genomic compatibility model: only certain diploid genotype combinations form allopolyploids.** *Nucleus* **66**, 371–378 (2023). <https://doi.org/10.1007/s13237-023-00451-5>
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- Maria Camila Vallejo-Pareja, Edward L. Stanley, Jonathan I. Bloch, and David C. Blackburn. **Fossil frogs (Eleutherodactylidae: Eleutherodactylus) from Florida suggest overwater dispersal from the Caribbean by the Late Oligocene.** *Zoological Journal of the Linnean Society*, 2023, XX, 1–16
<https://doi.org/10.1093/zoolinnean/zlad130>
- Xiaofei Bai, Andy Golden, **Transmembrane protein 120A (TMEM-120A/TACAN) coordinates with PIEZO channel during *Caenorhabditis elegans* reproductive regulation.** *G3 Genes/Genomes/Genetics*. Volume 14, Issue 1, 2024. <https://doi.org/10.1093/g3journal/jkad251>
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