



CHRONOLOGICAL RECORD OF HBS SCIENTIFIC PAPERS, REPORTS, & BOOKS, 2000 – 2022

2022

Gould, P. R., M. R. Gade, A. J. Wilk, and W. E. Peterman. 2022. Short-term responses of riparian salamander populations to wildfire in the southern Appalachians. *Journal of Wildlife Management* DOI: 10.1002/jwmg.22282.

Schultz, M., R. J. Warren II, J. T. Costa, B. Collins, and M. Bradford. 2022. Myrmecochorous plants and their ant seed dispersers through successional stages in temperate cove forests. *Ecological Entomology* DOI: 10.1111/een.13159.

Warren II, R. J., J. T. Costa, and M. Bradford. 2022. Seeing shapes in clouds: the fallacy of deriving ecological hypotheses from statistical distributions. *Oikos*, in press.

Wilburn, D. B., C. L. Kunkel, R. C. Feldhoff, P. W. Feldhoff, and B. C. Searle. 2022. Recurrent co-option and recombination of cytokine and three finger proteins in multiple reproductive tissues throughout salamander evolution. *Frontiers in Cell and Developmental Biology* 10: 828947.

2021

Allen, J. L., R. T. McMullin, Y. F. Wiersma, and C. Scheidegger. 2021. Population genetics and biogeography of the Lungwort Lichen in North America support distinct Eastern and Western gene pools. *American Journal of Botany* 108(12): 2416–2424. DOI: 10.1002/ajb2.1774.

Gould, P. L. and W. E. Peterman. 2021. Life history mediates the effects of habitat variation on salamander abundance: a multiscale assessment. *Landscape Ecology* 36: 749–761. DOI: 10.1007/s10980-020-01167-6.

Lentz, T., M. C. Allender, et al. 2021. Prevalence of *Ranavirus*, *Batrachochytrium dendrobatidis*, *B. salamandrivorans*, and *Ophidiomyces ophidiicola* in amphibians and reptiles of North Carolina, USA. *Herpetological Review* 52(2): 285–293.

2020

Ash, A. 2020. Temporal partitioning of foraging in *Plethodon metcalfi*. *Herpetological Conservation & Biology* 15(1): 61–68.

Updated 08/2022

- Barden, L. S. and J. T. Costa. 2020. Four decades of Table Mountain pine demography on Looking Glass Rock, Transylvania Co., NC, USA. *Castanea* 85(1): 23–31.
- Doll, J. C., L. Etchison, and D. Owensby. 2020. Population estimate of the State and Federally threatened Spottfin Chub using underwater observations. *North American Journal of Fisheries Management* 40(2): 342–353. DOI: 10.1002/nafm.10414.
- Gade, M. R., G. M. Connette, J. A. Crawford, D. J. Hocking, J. C. Maerz, J. M. Milanovich, and W.E. Peterman. 2020. Predicted alteration of terrestrial salamander surface activity as a consequence of climate change. *Ecology*. DOI: 10.1002/ecy.3154
- Hale, R., E. Powell, L. Beikmohamadi, and M. L. Alexander. 2020. Effects of arthropod inquilines on growth and reproductive effort among metacommunities of the purple pitcher plant (*Sarracenia purpurea* var. *montana*). *PLoS One* 15(5): e0232835. DOI: 10.1371/journal.pone.0232835.
- Lytle, A. J., J. T. Costa, and R. J. Warren. 2020. Invasion and high-elevation acclimation of the red imported fire ant, *Solenopsis invicta*, in the southern Blue Ridge escarpment region of North America. *Plos One* 15(5): e0232264. DOI: 10.1371/journal.pone.0232264.
- O'Donnell, M. K. and S. M. Deban. 2020. Cling performance and surface area of attachment in plethodontid salamanders. *Journal of Experimental Biology* 223: jeb211706.
- Riddell, E. A. and M. W. Sears. 2020. Terrestrial salamanders maintain habitat suitability under climate change despite trade-offs between water loss and gas exchange. *Physiological and Biochemical Zoology* 93(4): 310–319.
- 2019**
- Bruce, R. C. 2019. Life history evolution in plethodontid salamanders and the evolutionary ecology of direct development in Dusky Salamanders (*Desmognathus*). *Herpetological Review* 50(4): 673–682.
- Gade, M. R. and W. E. Peterman. 2019. Multiple environmental gradients influence the distribution and abundance of a key forest-health indicator species in the Southern Appalachian Mountains, USA. *Landscape Ecology* 34 (3): 569–582. DOI: 10.1007/s10980-019-00792-0.
- Gade, M. R., P. R. Gould, and W. E. Peterman. 2019. Habitat-dependent responses of terrestrial salamanders to wildfire in the short-term. *Forest Ecology and Management* 449: 117479.
- Lendemer, J. C. and J. L. Allen. 2019. *Hypotrachyna oprah* (Parmeliaceae, Lichenized Ascomycota), a new foliose lichen with lichexanthone from southeastern North America. *Castanea* 84(1): 24–32.

- Miniat, C. F., P. P. Clinton, and L. K. Everage. 2019. The effects of off-highway vehicle trails and use on stream water quality in the North Fork of the Broad River. *Transactions of the American Society of Agricultural and Biological Engineers* 62(2): 1–10. DOI: 10.13031/trans.13098.
- Riddell, E. A., E. Y. Roback, C. E. Wells, K. R. Zamudio, and M. W. Sears. 2019. Thermal cues drive plasticity of desiccation resistance in montane salamanders with implications for climate change. *Nature Communications* 10: 4091.
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- Wilburn, D. B. and R. C. Feldhoff. 2019. An annual cycle of gene regulation in the red-legged salamander mental gland: From hypertrophy to expression of rapidly evolving pheromones. *BMC Developmental Biology* 19:10.

2018

- Augustine, K. E. and J. G. Kingsolver. 2018. Biogeography and phenology of oviposition preference and larval performance of *Pieris virginiensis* butterflies on native and invasive host plants. *Biological Invasions* 20: 413–422.
- Costa, J. T. 2018. The other insect societies: Overview and new directions. *Current Opinion in Insect Science*. Special Issue on Social Evolution. 28: 40–49.
- Costa, J. T. 2018. The impish side of evolution's icon. *American Scientist* 106: 104–111.
- Jones, K. S. and D. W. Weisrock. 2018. Genomic data reject the hypothesis of sympatric ecological speciation in a clade of *Desmognathus* salamanders. *Evolution* 72(11): 2378–2393.
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- Milne, M. A. and D. A. Waller. 2018. Carnivorous pitcher plants eat a diet of certain spiders, regardless of what's on the menu. *Ecosphere* 9(11): 1–10 [Article e02504]
- Riddell, E. A., J. P. Odom, J. D. Damm, and M. W. Sears. 2018. Plasticity reveals hidden resistance to extinction under climate change in the global hotspot of salamander diversity. *Science Advances* 4: eaar5471.
- Riddell, E. A., J. McPhail, J. D. Damm, and M. W. Sears. 2018. Trade-offs between water loss and gas exchange influence habitat suitability of a woodland salamander. *Functional Ecology* 2018: 1–10. DOI: 10.1111/1365-2435.13030.

Veach, A. M., C. E. Stokes, J. Knoepp, A. Jumpponen, & R. Baird. 2018. Fungal communities and functional guilds shift along an elevational gradient in the southern Appalachian mountains. *Microbial Ecology* 76: 156–168.

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Weaver, N. and K. Barrett. 2018. In-stream habitat predicts salamander occupancy and abundance better than landscape-scale factors within exurban watersheds in a global diversity hotspot. *Urban Ecosystems* 21: 97–105.

2017

**** Papers stemming from the August 2016
Special Highlands Conference on Plethodontid Salamander Biology! ****

Herpetological Review, volume 48(3) 2017

[https://ssarherps.org/herpetological-review-pdfs/Herpetological History](https://ssarherps.org/herpetological-review-pdfs/Herpetological%20History)

Lungless in Highlands: A Brief History of Research and Education on Plethodontid Salamanders at Highlands Biological Station: Richard C. Bruce (pp. 576–581)

Herpetologica, volume 73(3) 2017

<http://www.hljournals.org.proxy195.nclive.org/toc/herp/73/3?code=herl-site>



Introduction to the Special Highlands Conference on Plethodontid Salamander Biology: Sarah K. Woodley, James T. Costa and Richard C. Bruce (pp. 177–179)

Eastern Red-backed Salamanders Regulate Top-Down Effects in a Temperate Forest-Floor Community: Cari-Ann M. Hickerson, Carl D. Anthony and B. Michael Walton (pp. 180–189)

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The Evolution of Courtship Behavior in Plethodontid Salamanders: Contrasting Patterns of Stasis and Diversification: Stevan J. Arnold, Karen M. Kiemnec-Tyburczy and Lynne D. Houck (pp. 190–205)

Gene Duplication, Co-option, Structural Evolution, and Phenotypic Tango in the Courtship Pheromones of Plethodontid Salamanders: Damien B. Wilburn, Stevan J. Arnold, Lynne D. Houck, Pamela W. Feldhoff and Richard C. Feldhoff (pp. 206–219)

What Drives Variation in Plethodontid Salamander Species Richness over Space and Time?: Kenneth H. Kozak (pp. 220–228)

The Geography of Speciation in Neotropical Salamanders: Sean M. Rovito (pp. 229–241)

Persistent Plethodontid Themes: Species, Phylogenies, and Biogeography: David B. Wake (pp. 242–251)

How Metamorphosis Is Different in Plethodontids: Larval Life History Perspectives on Life-Cycle Evolution: Christopher K. Beachy, Travis J. Ryan and Ronald M. Bonett (pp. 252–258)

Life in the Slow Lane: Stress Responses in Plethodontid Salamanders: Sarah K. Woodley (pp. 259–268)

Brannon, M. P., J. K. H. Brannon, and R. E. Baird. 2017. Educational applications of small mammal skeletal remains found in discarded bottles. *Southeastern Naturalist* 16(Special Issue 10): 4–10.

Bruce, R. C. 2017. A provisional model of demography in *Desmognathus ocoee* (Amphibia, Plethodontidae). *Copeia* 105(4): 634–639.

Bruce, R. C. 2017. A provisional model of demography in *Desmognathus ocoee* (Amphibia, Plethodontidae). *Copeia* 105(4): 634–639.

Costa, J. T. 2017. *Darwin's Backyard: How Small Experiments Led to a Big Theory*. New York: W. W. Norton.

Lendemer, J. C., C. R. Anderson Stewart, B. Besal, J. Goldsmith, H. Griffith, J. R. Hoffman, B. Kraus, P. LaPoint, L. Li, Z. Muscavitch, J. Schultz, R. Schultz, and J. L. Allen. 2017. The lichens and allied fungi of Mount Mitchell State Park, North Carolina: A first checklist with comprehensive keys and comparison to historical data. *Castanea* 82: 69–97.

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