



CHRONOLOGICAL RECORD OF HBS SCIENTIFIC PAPERS, REPORTS, & BOOKS, 2000 – 2020

2020

- Ash, A. 2020. Temporal partitioning of foraging in *Plethodon metcalfi*. *Herpetological Conservation & Biology* 15(1): 61–68.
- 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 Spotfin Chub using underwater observations. *North American Journal of Fisheries Management* 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
- 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* <https://doi.org/10.1371/journal.pone.0232264>
- 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; 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*

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- 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.
- Miniati, 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: doi.org/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.
- Sears, M. W., E. A. Riddell, T. W. Rusch, and M. J. Angilletta Jr. 2019. The world still is not flat: Lessons learned from organismal interactions with environmental heterogeneity in terrestrial environments. *Integrative and Comparative Biology* 59: 1049–1058.
- 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

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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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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)

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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)

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.

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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

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- Carolina: A first checklist with comprehensive keys and comparison to historical data. *Castanea* 82: 69–97.
- Riddell, E. A., E. K. Apanovitch, J. P. Odom, and M. W. Sears. 2017. Physical calculations of resistance to water loss improve predictions of species range models. *Ecological Monographs* 87(1): 21–33.
- Veach, A. M., C. E. Stokes, J. Knoepp, A. Jumpponen, and R. Baird. 2017. Fungal communities and functional guilds shift along an elevational gradient in the Southern Appalachian Mountains. *Microbial Ecology* 76:156–168; <https://doi.org/10.1007/s00248-017-1116-6>
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- Workman, S.W., B. Barlow, and J. Fike. 2017. Southeast and Caribbean Regional Summary. pp. 189-202 In: Schoeneberger M.M., Bentrup G., Patel-Weynand T. (eds) 2017. Agroforestry: Enhancing Resiliency in U.S. Agricultural Landscapes under Changing Conditions. General Technical Report WO-96. USDA-FS, Washington DC.
- 2016**
- Allen, J. L and J. C. Lendemer. 2016. Climate change impacts on endemic, high-elevation lichens in a biodiversity hotspot. *Biodiversity and Conservation* 25(3): 555–568. doi: 10.1007/s10531-016-1071-4.
- Bruce, R. C. 2016a. Application of the Gompertz function in studies of growth in dusky salamanders (Plethodontidae: *Desmognathus*). *Copeia* 104(1): 94–100.
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