



Alphabetical Record of Scientific Papers, Reports, and Books 2000 – 2017

- Adams, J. K. 2002. The moth fauna of the Highlands area and the possible impacts from 1999 Btk spraying: Sampling the non-target moth fauna in 2001. *USDA Forest Service Final Report*, Asheville, NC.
- Adler, L. S. and J. L. Bronstein. 2004. Attracting antagonists: Does floral nectar increase leaf herbivory? *Ecology* 85: 1519-1526.
- Allen, J. L. and J. C. Lendemer. 2016. Climate change impacts on endemic, high-elevation lichens in a biodiversity hotspot. *Biodiversity Conservation* doi 10.1007/s10531-016-1071-4.
- Anderson, J. and S. G. Tilley. 2003. Systematics of the *Desmognathus ochrophaeus* complex in the Cumberland Plateau of Tennessee. *Herpetological Monographs* 17: 75-110.
- Ash, A. N., R. C. Bruce, J. Castanet, and H. Francillon-Vieillot. 2003. Population parameters of *Plethodon metcalfi* on a ten-year-old clearcut and in nearby forest in the southern Blue Ridge Mountains. *Journal of Herpetology* 37: 445-452.
- Babcock, S. K. and J. L. Blasis. 2001. Caudal vertebral development and morphology in three salamanders with complex life cycles (*Ambystoma jeffersonianum*, *Hemidactylium scutatum*, and *Desmognathus ocoee*). *Journal of Morphology* 247: 142-159.
- Baird, R., L. E. Wallace, G. Baker, and M. Scruggs. 2013. Stipitate hydroid fungi of the temperate southeastern United States. *Fungal Diversity* 62(1): 41-114.
- Baird, R. E., S. Woolfolk, and C.E. Watson. 2009. Microfungi of forest litter of healthy American beech, Fraser fir, and Eastern hemlock stands from forests in Great Smoky Mountains National Park. *Southeastern Naturalist* 8: 609-630.
- Baird, R., C. E. Stokes, J. Frampton, B. Smith, C. Watson, C. Pilgrim, and M. Scruggs. 2014. Diversity and density of the EM fungal community present in high elevation Fraser fir forests of Great Smoky Mountains National Park. *North American Fungi* 9(1): 1-21.
- Baird, R., E. Wood-Jones, J. Varco, C. Watson, W. Starrett, G. Taylor, and K. Johnson. 2014. *Rhododendron* decline in the Great Smoky Mountains and surrounding areas: intensive site study of biotic and abiotic parameters associated with the

Updated 05/22/2017

decline. *Southeastern Naturalist* 13(1): 1-25.

- Baird, R., C. E. Stokes, A. Wood-Jones, C. Watson, M. Alexander, G. Taylor, K. Johnson, P. Threadgill, and S. Diehl. 2014. A molecular clone and culture inventory of the root fungal community associated with eastern hemlock in Great Smoky Mountains National Park. *Southeastern Naturalist* 13(special issue 6): 219-237.
- Baird, R., C. E. Stokes, A. Wood-Jones, C. Watson, M. Alexander, C. Watson, G. Taylor, K. Johnson, T. Remaley, and S. Diehl. 2014. Fleshy saprobic and ectomycorrhizal fungal communities associated with healthy and declining eastern hemlock stands in Great Smoky Mountains National Park. *Southeastern Naturalist* 13(special issue 6): 192-218.
- Bernardo, J. and N. L. Regan-Wallin. 2002. *Plethodontid* salamanders do not conform to “general rules” for ectotherm life histories: Insights from allocation models about why simple models do not make accurate predictions. *Oikos* 97: 398-414.
- Birchfield, G. L. and R. C. Bruce. 2000. Morphometric variation among larvae of four species of lungless salamanders (Caudata: Plethodontidae). *Herpetologica* 56: 332-342.
- Brannon, M. P. 2005. Distribution and microhabitat of the woodland jumping mouse, *Napaeozapus insignis*, and the white-footed mouse, *Peromyscus leucopus*, in the southern Appalachians. *Southeastern Naturalist* 4: 479-486.
- Brannon, M. P. 2006. *Bufo A. americanus* (eastern American toad) leucism. *Herpetological Review* 37: 333-334.
- Brannon, M. P. 2009. An additional record of the least shrew, *Cryptotis parva*, from Macon County, North Carolina. *Journal of the North Carolina Academy of Science* 125: 85-86.
- Brannon, M. P. and L. B. Bargelt. 2013. Discarded bottles as a mortality threat to shrews and other small mammals in the southern Appalachian Mountains. *Journal of the North Carolina Academy of Sciences* 129: 126-129.
- Brannon, M. P. and S. R. Rogers. 2005. Effects of canopy thinning by hemlock woolly adelgids on the local abundance of terrestrial salamanders. *Journal of the North Carolina Academy of Science* 121: 151-156.
- Brannon, M. P., E. C. Allan, and M. C. Silinski. 2014. Terrestrial salamander abundances along and within an electric power line right-of-way. *Journal of the North Carolina Academy of Science* 130(2): 40-45.
- 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* Special Issue 9: *in press*.

- Brannon, M. P., M. A. Burt, D. M. Bost, M. C. Caswell. 2010. Discarded bottles as a source of shrew species distributional data along an elevational gradient in the southern Appalachians. *Southeastern Naturalist* 9: 781-794.
- Bruce, R. C. 2003. Ecological distribution of the salamanders *Gyrinophilus* and *Pseudotriton* in a southern Appalachian watershed. *Herpetologica* 59: 301-310.
- Bruce, R. C. 2005a. Did *Desmognathus* salamanders reinvent the larval stage? *Herpetological Review* 36: 107-112.
- Bruce, R. C. 2005b. Theory of complex life cycles: application in plethodontid salamanders. *Herpetological Monographs* 19: 180-207.
- Bruce, R. C. 2008. Intraguild interactions and population regulation in plethodontid salamanders. *Herpetological Monographs* 22: 31-53.
- Bruce, R. C. 2009. Life-history contributions to miniaturization in the salamander genus *Desmognathus* (Urodela: Plethodontidae). *Copeia* 2009: 714-723.
- Bruce, R. C. 2010. Proximate contributions to adult body size in two species of dusky salamanders (Plethodontidae: *Desmognathus*). *Herpetologica* 66: 393-402.
- Bruce, R. C. 2011. Community assembly in the salamander genus *Desmognathus*. *Herpetological Monographs* 25: 1-24.
- Bruce, R. C., J. Castanet, and H. Francillon-Vieillot. 2002. Skeletochronological analysis of variation in age structure, body size, and life history in three species of desmognathine salamanders. *Herpetologica* 58: 181-193.
- Bruce, R. C., R. G. Jaeger, and L. D. Houck (eds.). 2000. *The Biology of Plethodontid Salamanders*. New York: Kluwer Academic/Plenum Publishers, 488 pp.
- Camp, C. D., J. L. Marshall, K. R. Landau, R. N. M. Austin, and S. G. Tilley. 2000. Sympatric occurrence of two species of the two-lined salamander (*Eurycea bislineata*) complex. *Copeia* 2000: 572-578.
- Camp, C. D., W. E. Peterman, J. R. Milanovich, T. Lamb, J. C. Maerz, and D. B. Wake. 2009. A new genus and species of lungless salamander (family Plethodontidae) from the Appalachian highlands of the southeastern United States. *Journal of Zoology* 279: 86-94.
- Cashner, M. F., K. R. Piller, H. L. Bart. 2011. Phylogenetic relationships of the North American cyprinid subgenus *Hydrophlox*. *Molecular Phylogenetics and Evolution* 59: 725-735.
- Chouinard, A. J., D. B. Wilburn, L. D. Houck, and R. C. Feldhoff. 2012. Individual variation in pheromone isoform ratios of the Red-legged salamander, *Plethodon*

shermani. *Chemical Signals in Vertebrates* 12: 99-115.

- Connette, G. M. and R. D. Semlitsch. 2011. Successful use of a passive integrated transponder (PIT) system for below-ground detection of plethodontid salamanders. *Wildlife Research* 39: 1-6.
- Connette, G. M. and R. D. Semlitsch. 2013a. Life history as a predictor of salamander recovery rate from timber harvest in southern Appalachian forests, U.S.A. *Conservation Biology* 27(6): 1399-1409.
- Connette, G. M. and R. D. Semlitsch. 2013b. Context-dependent movement behavior of woodland salamanders (*Plethodon*) in two habitat types. *Zoology* 116(6): 325-330.
- Connette, G. M. and R. D. Semlitsch. 2015. A multistate mark–recapture approach to estimating survival of PIT-tagged salamanders following timber harvest. *Journal of Applied Ecology* doi: 10.1111/1365-2664.12472.
- Connette, G. M., J. A. Crawford, and R. D. Semlitsch. 2015. Climate change and shrinking salamanders: alternative mechanisms for changes in plethodontid salamander body size. *Global Change Biology* 21: 2834-2843.
- Connette, G. M., M. S. Osbourn, and W. E. Peterman. 2016. The distribution of a stream-breeding salamander, *Desmognathus ocoee*, in terrestrial habitat suggests the ecological importance of low-order streams. *Copeia* 104(1): 149-156.
- Corser, J. D. 2001. Decline of disjunct green salamander (*Aneides aeneus*) populations in the southern Appalachians. *Biological Conservation* 97: 119-126.
- Costa, J. T. 2006. *The Other Insect Societies*. Cambridge, Mass.: Belknap/Harvard University Press, 812 pp.
- Costa, J. T. 2009a. *The Annotated Origin*. Cambridge, Mass.: Belknap/Harvard University Press, 576 pp.
- Costa, J. T. 2009b. The Darwinian revelation: Tracing the origin and evolution of an idea. *BioScience* 59: 886-894.
- Costa, J. T. 2010. Social evolution in 'other' insects and arachnids. In: M. D. Breed and J. Moore (eds) *Encyclopedia of Animal Behavior*, pp. 231-241. Oxford, UK: Academic Press.
- Costa, J. T. 2012. New landscapes and new eyes: The many voyages of Charles Darwin. pp. 42-55 In: S. G. da Silva et al. (eds.) *(Dis)Entangling Darwin: Cross-Disciplinary Reflections on the Man and His Legacy*. Newcastle, UK: Cambridge Scholars Publishing.
- Costa, J. T. 2013a. *On the Organic Law of Change: A Facsimile Edition and Annotated Transcription of Alfred Russel Wallace's Species Notebook of 1855-1859*.

Cambridge, Mass: Harvard University Press, 592 pp.

- Costa, J. T. 2013b. Hamiltonian inclusive fitness: A fitter fitness concept. *Biology Letters* 9(6): 20130335.
- Costa, J. T. 2013c. Engaging with Lyell: Alfred Russel Wallace's Sarawak Law and Ternate papers as reactions to Charles Lyell's *Principles of Geology*. *Theory in Biosciences* 132(4): 225-237.
- Costa, J. T. 2013d. Synonymy and its discontents: Alfred Russel Wallace's nomenclatural proposals from the 'Species Notebook' of 1855–1859. *Bulletin of Zoological Nomenclature* 70: 131-148.
- Costa, J. T. 2013e. Wallace on the evolutionary trail. *Current Biology* 23(24): R1069-R1071.
- Costa, J. T. 2014a. *Wallace, Darwin, and the Origin of Species*. Cambridge, Mass: Harvard University Press, 331 pp.
- Costa, J. T. 2014b. Sailing the backyard *Beagle*: Darwin-inspired voyages of discovery in backyard and schoolyard. In: C. Boulter, D. Sanders, and M. Reiss (eds.), *Darwin-Inspired Learning*. Rotterdam and Boston: Sense Publishers, *in press*.
- Costa, J. T. 2015. The consilient Mr. Wallace. *Skeptic Magazine* 20(3): 16-21.
- Crawford, J. A. 2007. *Desmognathus quadramaculatus* (Black-bellied salamander) predation. *Herpetological Review* 38: 432-433.
- Crawford, J. A. and R. D. Semlitsch. 2007. Estimation of core terrestrial habitat for stream-breeding salamanders and delineation of riparian buffers for protection of biodiversity. *Conservation Biology* 21: 152-158.
- Crawford, J. A. and R. D. Semlitsch. 2008a. Abiotic factors influencing abundance and microhabitat use of stream salamanders in southern Appalachian Forests. *Forest Ecology and Management* 255: 1841-1847.
- Crawford, J. A. and R. D. Semlitsch. 2008b. Post-disturbance effects of even-aged timber harvest on stream salamanders in southern Appalachian forests. *Animal Conservation* 11: 369-376.
- Crespi, E. J., L. J. Rissler, and R. A. Browne. 2003. Testing Pleistocene refugia theory: phylogeographic analysis of *Desmognathus wrighti*, a high-elevation salamander in the southern Appalachians. *Molecular Ecology* 12: 969-984.
- Deonier, D. L. 2002a. Mechanisms of competitive coexistence in the sibling species *Hydrellia bilobifera*. *Contributions on Entomology, International* 5: 3-30.
- Deonier, D. L. 2002b. North American ephydrid habitat types and probable ephydrid inhabitants. *Contributions on Entomology, International* 5: 31-47.

Updated 05/22/2017

- Derda, G. S. and R. Wyatt. 2000. Isozyme evidence regarding the origins of three allopolyploid species of *Polytrichastrum* (Polytrichaceae, Bryophyta). *Plant Systematics and Evolution* 220: 37-53.
- Derda, G. S. and R. Wyatt. 2003. Genetic variation and population structure in *Polytrichum juniperinum* and *P. strictum* (Polytrichaceae). *Lindbergia* 28: 23-40.
- Diederich, P., D. Ertz, and J. Etaylo. 2010. An enlarged concept of *Llimoniella* (lichenicolous Helatiales), with a revised key to the species and notes on related genera. *The Lichenologist* 42: 253-269.
- Dipple, K. M., G. M. Connette, and R. D. Semlitsch. 2013. Behavior of *Plethodon metcalfi* following anesthetization with Tricaine Methanesulfonate (MS-222). *Herpetological Review* 44: 215-218
- Donovan, M. F., R. D. Semlitsch, and E. J. Routman. 2000. Biogeography of the southeastern United States: A comparison of salamander phylogeographic studies. *Evolution* 54: 1449-1456.
- Eckert, C. G. and C. R. Herlihy. 2004. Using a cost-benefit approach to understand the evolution of self-fertilization in plants: the perplexing case of *Aquilegia canadensis* (Ranunculaceae). *Plant Species Biology* 19: 150-173.
- Fronzuto, J. and P. Verrell. 2000. Sampling aquatic salamanders: Tests of the efficiency of two funnel traps. *Journal of Herpetology* 34: 146-147.
- Gershman S. N. and P. A. Verrell. 2002. To persuade or be persuaded: Which sex controls mating in a plethodontid salamander? *Behaviour* 139: 447-462.
- Glenn, A. and M. S. Bodri. 2012. Fungal endophyte diversity in *Sarracenia*. *PLoS One* 7(3): e32980.
- Goater, T. M. 2000. The leech *Oligobdella biannulata* (Glossiphoniidae) on desmognathine salamanders: Potential for trypanosome transmission? *American Midland Naturalist* 144: 434-438.
- Grand, L. F. and C. S. Vernia. 2000. Distribution of poroid wood-decay fungi in North Carolina. *Inoculum, Suppl. to Mycologia* 51: 32.
- Grand, L. F. and C. S. Vernia. 2001. New reports and biogeography of poroid wood-decay fungi in North Carolina. *Inoculum, Suppl. to Mycologica* 52: 36.
- Grand, L. F. and C. S. Vernia. 2002. New taxa and hosts of poroid wood-decay fungi in North Carolina. *Castanea* 67: 193-200.
- Grand, L. F. and C. S. Vernia. 2003. Noteworthy collections, North Carolina, *Cryptoporus volvatus* (Peck) Shear. *Castanea* 68: 88-89.

- Grand, L.F. 2004. Diversity and distribution of poroid wood decay fungi in the southern Appalachian Mountains. *Inoculum Supplement to Mycologia* 55(4):14 Abstr.
- Grand, L. F. and C. S. Vernia. 2004a. Biogeography and hosts of wood decay fungi in North Carolina: species of *Ceriporia*, *Ceriporiopsis* and *Perenniporia*. *Mycotaxon* 90: 307-309.
- Grand, L. F. and C. S. Vernia. 2004b. Biogeography and hosts of poroid wood decay fungi in North Carolina species of *Phellinus* and *Schizopora*. *Mycotaxon* 89: 181-184.
- Grand, L. F. and C. S. Vernia. 2005a. Biogeography and hosts of poroid wood decay fungi in North Carolina: Species of *Coltricia*, *Coltriciella* and *Inonotus*. *Mycotaxon* 91: 35-38.
- Grand, L. F. and C. S. Vernia. 2005b. Biogeography and hosts of poroid wood decay fungi in North Carolina: species of *Fomes*, *Fomitopsis*, *Fomitella* and *Ganoderma*. *Mycotaxon* 94: 231-234.
- Grand, L.F. and C.S. Vernia. 2007. Biogeography and hosts of poroid wood decay fungi in North Carolina: species of *Abortiporus*, *Bondarzewia*, *Grifola*, *Heterobasidion*, *Laetiporus* and *Meripilus*. *Mycotaxon* 99: 99-102.
- Grand, L.F. and C.S. Vernia. 2008. Biogeography and hosts of poroid wood decay fungi in North Carolina: species of *Trametes* and *Trichaptum*. *Mycotaxon* 106: 243-246.
- Grand, L. F., C. S. Vernia, and J. Perry. 2004. Noteworthy collections, North Carolina, *Phylloporia frutica* (Berk. & M.A. Curtis) Ryvarden. *Castanea* 69: 237-238.
- Herlihy, C. R. and C. G. Eckert. 2002. Genetic cost of reproductive assurance in a self-fertilizing plant. *Nature* 416: 320-323.
- Herlihy, C. R. and C. G. Eckert. 2004a. Evolution of self-fertilization at geographical range margins? A comparison of demographic, floral and mating system variables in central versus peripheral populations of *Aquilegia canadensis* (Ranunculaceae). *American Journal of Botany* 92: 744-751.
- Herlihy, C. R. and C. G. Eckert. 2004b. Experimental dissection of inbreeding and its adaptive significance in a flowering plant, *Aquilegia canadensis* (Ranunculaceae). *Evolution* 58: 2693-2703.
- Himes, S. L. and R. Wyatt. 2004. Costs and benefits of self-fertility in *Asclepias exaltata* (Apocynaceae). *Journal of the Torrey Botanical Society* 132: 24-32.
- Holland, J. N., R. Wyatt, J. L. Bronstein, and J. H. Ness. 2003. Relating the biology of flower-to-fruit survivorship to the ecology and evolution of flower-to-fruit ratios.

- Holt, J. P. 2000. Changes in bird populations on the Highlands Plateau, North Carolina (USA), 1946-1995, with emphasis on Neotropical migrants. *Natural Areas Journal* 20: 119-125.
- Houck, L. D. and Arnold, S. J. 2003. Courtship and mating. In: *Phylogeny and Reproductive Biology of Urodela (Amphibia)*. D. M. Sever, ed. Enfield, New Hampshire: Science Publishers.
- Houck, L. D., C. A. Palmer, R. A. Watts, S. J. Arnold, P. W. Feldhoff, and R. C. Feldhoff. 2007. A new vertebrate courtship pheromone, PMF, affects female receptivity in a terrestrial salamander. *Animal Behaviour* 73: 315-320.
- Houck, L. D., R. A. Watts, S. J. Arnold, K. E. Bowen, K. M. Kiemnec, H. A. Godwin, P. W. Feldhoff and R. C. Feldhoff. 2008. A recombinant courtship pheromone affects sexual receptivity in a plethodontid salamander. *Chemical Senses* 33: 623- 631.
- Houck, L. D., R. A. Watts, L. M. Mead, C. A. Palmer, S. J. Arnold, P. W. Feldhoff, and R. C. Feldhoff. 2008. A candidate vertebrate pheromone, SPF, increases receptivity in female salamanders. pp. 213-221 In: *Chemical Signals in Vertebrates*, vol. 11. J. Hurst, R. Beynon and D. Muller-Schwarze, eds. New York: Springer-Verlag.
- Ivey, C. T., P. Martinez, and R. Wyatt. 2003. Variation in pollinator effectiveness in swamp milkweed, *Asclepias incarnata* (Apocynaceae). *American Journal of Botany* 90: 214-225.
- Jeffries, S. B. and T. R. Wentworth. 2014. *Exploring Southern Appalachian Forests: An Ecological Guide to 30 Great Hikes in the Carolinas, Georgia, Tennessee, and Virginia*. Chapel Hill: University of North Carolina Press, 336 pp.
- Jones, M. T., S. R. Voss, M. B. Ptacek, D. W. Weisrock, and D. W. Tonkyn. 2006. River drainages and phylogeography: an evolutionary significant lineage of shovel-nosed salamander (*Desmognathus marmoratus*) in the southern Appalachians. *Molecular Phylogenetics and Evolution* 38: 280-287.
- Keiper, J. B., D. L. Deonier, J. Jiannino, M. Sanford, and W. E. Walton. 2002. Biology, immature stages, and redescription of *Hydrellia personata* (Diptera: Ephydriidae), a *Lemna* miner. *Proceedings of the Entomological Society of Washington* 104: 458-467.
- Kerney, R. R., D. C. Blackburn, H. Müller, and J. Hanken. 2012. Do larval traits re-evolve? Evidence from the embryogenesis of a direct-developing salamander, *Plethodon cinereus*. *Evolution* 66: 252-262.
- Kiemnec-Tyburczy, K. M., R. A. Watts, R. G. Gregg, D. von Borstel, and S. J. Arnold. 2009. Evolutionary shifts in courtship pheromone composition revealed by EST analysis of plethodontid salamander mental glands. *Gene* 432: 75-81.

- Kiemnec-Tyburczy, K. M., S. K. Woodley, P. W. Feldhoff, R. C. Feldhoff, and L. D. Houck. 2011. Dermal application of courtship pheromones does not influence receptivity in female red-legged salamanders (*Plethodon shermani*). *Journal of Herpetology* 45: 169-173.
- Kiemnec-Tyburczy, K.M., S.K. Woodley, R.A. Watts, S.J. Arnold, and L.D. Houck. 2012. Expression of vomeronasal receptors and related signaling molecules in the nasal cavity of a caudate amphibian (*Plethodon shermani*). *Chemical Senses* 37(4): 335-346.
- Kozak, K. H. 2003. Sexual isolation and courtship behavior in salamanders of the *Eurycea bislineata* species complex, with comments on the evolution of the mental gland and pheromone delivery behavior in the Plethodontidae. *Southeastern Naturalist* 2: 281-292.
- Kozak, K. H., R. A. Blaine, and A. Larson. 2006. Gene lineages and eastern North American palaeodrainage basins: phylogeography and speciation in salamanders of the *Eurycea bislineata* species complex. *Molecular Ecology* 15: 191-207.
- Kozak, K. H., A. Larson, R. M. Bonett, and L. J. Harmon. 2005. Phylogenetic analysis of ecomorphological divergence, community structure, and diversification rates in dusky salamanders (Plethodontidae: *Desmognathus*). *Evolution* 59: 2000-2016.
- Kozak, K. H., and R. R. Montanucci. 2001. Genetic variation across a contact zone between montane and lowland forms of the two-lined salamander (*Eurycea bislineata*) species complex: A test of species limits. *Copeia* 2001: 25-34.
- Kozak, K. H., D. W. Weisrock, and A. Larson. 2006. Rapid lineage accumulation in a non-adaptive radiation: phylogenetic analysis of diversification rates in eastern North American woodland salamanders (Plethodontidae: *Plethodon*). *Proceedings of the Royal Society of London (B)* 273: 539-546.
- Krisai-Greilhuber, I., B. Senn-Irlet, and H. Voglmayr. 2002. Notes on *Crepidotus* from Mexico and the southeastern USA. *Persoonia* 17: 515-539.
- Krusche, P., C. Uller, and U. Dicke. 2010. Quantity discrimination in salamanders. *Journal of Experimental Biology* 213: 1822-1828.
- Laberge, F., R. C. Feldhoff, P. W. Feldhoff, and L. D. Houck. 2008. Courtship pheromone-induced c-Fos-like immunolabeling in the female salamander brain. *Neuroscience* 151: 329-339.
- Lamphere, B. A. and M. J. Blum. 2012. Genetic estimates of population structure and dispersal in a benthic stream fish. *Ecology of Freshwater Fish* 21: 75-86.
- Larson, A., D. W. Weisrock, and K. H. Kozak. 2003. Phylogenetic systematics of salamanders (Amphibia: Urodela), a review. pp 31- 108 In: *Phylogeny and*

Reproductive Biology of Urodela (Amphibia). D. M. Sever, ed. Enfield, New Hampshire: Science Publishers.

- Lewis, J. D., G. M. Connette, M. A. Deyrup, J. E. Carrel, and R. D. Semlitsch. 2014. Relationship between diet and microhabitat use of red-legged salamanders (*Plethodon shermani*) in southwestern North Carolina. *Copeia* 2014: 201-205.
- Lichstein, J. W., J. Dushoff, K. Ogle, A. Chen, D. W. Purves, J. P. Caspersen, and S. W. Pacala. 2010. Unlocking the forest inventory data: relating individual tree performance to unmeasured environmental factors. *Ecological Applications* 20: 684-699.
- Mabry, M., and P. A. Verrell. 2003. All are one and one is all: Sexual uniformity among widely separated populations of the North American seal salamander, *Desmognathus monticola*. *Biological Journal of the Linnean Society* 78: 1-10.
- Mabry, M., and P. A. Verrell. 2004. Stifled sex in sympatry: patterns of sexual incompatibility among desmognathine salamanders. *Biological Journal of the Linnean Society* 82: 367-375.
- Mackey, M. J., G. W. Connette, and R. D. Semlitsch. 2010. Monitoring of stream salamanders: The utility of two techniques and the influence of stream substrate complexity. *Herpetological Review* 41: 163-166.
- Mackey, M. J., G. M. Connette, W. E. Peterman, and R. D. Semlitsch. 2014. Do golf courses reduce the ecological value of headwater streams for salamanders in the southern Appalachian Mountains? *Landscape and Urban Planning* 125: 17-27.
- Manos, P. and J. E. Meireles. 2015. Biogeographic analysis of the woody plants of the southern Appalachians: Implications for the origins of a regional flora. *American Journal of Botany* 102(5): 1-25.
- Marks, S. B. 2000. Skull development in two plethodontid salamanders (genus *Desmognathus*) with different life histories. pp. 261-276 In: *The Biology of Plethodontid Salamanders*. Bruce, R. C., R. G. Jaeger, and L. D. Houck, eds. New York: Kluwer Academic/Plenum Publishers.
- McCormick, M. A. M. A. Cubeta, and L. F. Grand. 2013. Geography and hosts of the wood decay fungi *Fomes fasciatus* and *Fomes fomentarius* in the United States. *North American Fungi* 8(2): 1-53.
- Mead, L. S. and S. G. Tilley. 2000. Ethological isolation and variation in allozymes and dorsolateral pattern between parapatric forms in the *Desmognathus ochrophaeus* complex. pp. 181-198 In: *The Biology of Plethodontid Salamanders*. R. C. Bruce, R. G. Jaeger, and L. D. Houck, eds. New York: Kluwer Academic/Plenum Publishers.
- Mead, L. S., S. G. Tilley, and L. A. Katz. 2001. Genetic structure of the Blue Ridge dusky salamander (*Desmognathus orestes*): Inferences from allozymes, mitochondrial DNA and behavior. *Evolution* 55: 2287-2302.

- Mead, L. S. and P. A. Verrell. 2002. Evolution of courtship behaviour patterns and reproductive isolation in the *Desmognathus ochrophaeus* complex. *Ethology* 108: 403-427.
- Mendelson, T. C. 2003a. Sexual isolation evolves faster than hybrid inviability in a diverse and sexually dimorphic genus of fish (Percidae: *Etheostoma*). *Evolution* 57: 317-327.
- Mendelson, T. C. 2003b. Evidence of intermediate and asymmetrical behavioral isolation between Orangethroat and Orangebelly darters (Teleostei: Percidae). *American Midland Naturalist* 150: 343-347.
- Mendelson, T. C., B. D. Inouye, and M. D. Rausher. 2004. Patterns in the evolution of reproductive isolation and the genetics of speciation. *Evolution* 58: 1424-1433.
- Mendelson, T. C., A. M. Siegel, and K. L. Shaw. 2004. Testing geographic pathways of speciation in a recent island radiation. *Molecular Ecology* 13: 3787-3796.
- Nation, T. H. 2007. The influence of flowering dogwood (*Cornus florida*) on land snail diversity in a southern mixed hardwood forest. *American Midland Naturalist* 157: 137-148.
- Pairon, M., B. Petitpierre, M. Campbell, A. Guisan, O. Broennimann, P.V. Baret, A. Jacquemart, and G. Besnard. 2010. Multiple introductions boosted genetic diversity in the invasive range of black cherry (*Prunus serotina*; Rosaceae). *Annals of Botany* 105: 881-890.
- Palmer, C. A. and L. D. Houck. 2004. Responses to sex- and species-specific chemical signals in allopatric and sympatric salamander species. pp. 32-41 *In: Chemical Signals in Vertebrates*, vol. 10. R. T. Mason, M. P. LeMaster, and D. Muller-Schwarze, eds. New York: Kluwer Academic/Plenum Publishers.
- Palmer, C. A., D. M. Hollis, R. A. Watts, L. D. Houck, M. A. McCall, R. G. Gregg, P. W. Feldhoff, R. C. Feldhoff, and S. J. Arnold. 2007. Plethodontid modulating factor, a hypervariable salamander courtship pheromone in the three-finger protein superfamily. *FEBS Journal* 274: 2300-2310.
- Palmer, C., R. A. Watts, R. Gregg, M. McCall, L. D. Houck, R. Highton, and S. J. Arnold. 2005. Lineage-specific differences in evolutionary mode in a salamander courtship pheromone. *Molecular Biology and Evolution* 22: 2243-2256.
- Palmer, C., R. A. Watts, L. D. Houck, A. L. Picard, and S. J. Arnold. 2007. Evolutionary replacement of pheromone components in a salamander signaling complex: more evidence for phenotypic-molecular decoupling. *Evolution* 61: 202-215.
- Peterman, W. E., J. A. Crawford, and R. D. Semlitsch. 2011. Effects of even-aged timber harvest on stream salamanders: Support for the evacuation hypothesis. *Forest*

Ecology and Management 262: 2344–2353.

- Peterman, W. E. and R. D. Semlitsch. 2006. Effects of tricaine methanesulfonate (MS-222) concentration on anesthetization and recovery in four plethodontid salamanders. *Herpetological Review* 37: 303-304.
- Peterman, W. E. and R. D. Semlitsch. 2009. Efficacy of riparian buffers in mitigating local population declines and the effects of even-aged timber harvest on larval salamanders. *Forest Ecology and Management* 257: 8-14.
- Peterman, W. E., J. A. Crawford, and R. D. Semlitsch. 2007. Productivity and significance of headwater streams: population structure and biomass of the black-bellied salamander (*Desmognathus quadramaculatus*). *Freshwater Biology* 53: 347-357.
- Petitpierre, B., M. Pairon, O. Broennimann, A.L. Jacquemart, A. Guisan, and G. Besnard. 2009. Plastid DNA variation in *Prunus serotina* var. *serotina* (Rosaceae), a North American tree invading Europe. *European Journal of Forest Research* 128: 431-436.
- Poff, J. M. and C. F. Rodell. 2004. Biology of the southeast: a learning community. *Journal of College Science Teaching* 33: 40-44.
- Reinhart, K. O., A. A. Royo, W. H. Van der Putten, and K. Clay. 2005. Soil feedback and pathogen activity in *Prunus serotina* throughout its native range. *Journal of Ecology* 93: 890-898.
- Riddell, E. A. and M. W. Sears. 2015. Geographic variation of resistance to water loss within two species of lungless salamanders: implications for activity. *Ecosphere* 6(5): 1-16.
- 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.
- Robinson J. L. and P. S. Rand. 2005. Discontinuity in fish assemblages across an elevation gradient in a southern Appalachian watershed, USA. *Ecology of Freshwater Fish* 14: 14-23.
- Rollmann, S. M., L. D. Houck, and R. C. Feldhoff. 2003. Conspecific and heterospecific pheromone effects on female receptivity. *Animal Behaviour* 66: 857-861.
- Rose, C. S. 2002. The developmental morphology of salamander skulls. pp. 1686-173 In: *Amphibian Biology, vol. 5: Osteology*. H. Heatwole and M. Davies, eds. Chipping Norton, Australia: Amphibian Surrey Beatty and Sons.
- Roth, G. and D. B. Wake. 2004. The structure of the brainstem and cervical spinal cord in lungless salamanders (family Plethodontidae) and its relation to feeding. *Journal*

of Comparative Neurology 241: 99-110.

- Sato, S. and J. Yukawa. 2001. Absence record of *Fagus* gall midges (Diptera: Cecidomyiidae) on Ulleung Island, Korea and in North America. *Esakia* 41: 17-25.
- Schubert, S. N., L. D. Houck, P. W. Feldhoff, R. C. Feldhoff, and S. K. Woodley. 2006. Effects of androgens on behavioral and vomeronasal responses to chemosensory cues in male terrestrial salamanders (*Plethodon shermani*). *Hormones and Behavior* 50: 469-476.
- Schubert, S. N., L. D. Houck, P. W. Feldhoff, R. C. Feldhoff, and S. K. Woodley. 2008. The effects of sex and female reproductive condition on chemosensory communication in a terrestrial salamander (*Plethodon shermani*). *Hormones and Behavior* 54: 270-277.
- Schubert, S. N., C. L. Wack, L. D. Houck, P. W. Feldhoff, R. C. Feldhoff, and S. K. Woodley. 2009. Exposure to pheromones increases plasma corticosterone concentrations in a terrestrial salamander. *General and Comparative Endocrinology* 161: 271-275.
- Semlitsch, R. D. 2000a. Size does matter: The value of small isolated wetlands. *Conservation Biology* 14: 5-13.
- Semlitsch, R. D. 2000b. Principles for management of aquatic-breeding amphibians. *Journal of Wildlife Management* 64: 615-631.
- Semlitsch, R.D., S. Ecrement, A. Fuller, K. Hammer, J. Howard, C. Krager, J. Mozeley, J. Ogle, N. Shipman, J. Speier, M. Walker, and B. Walters. 2012. Natural and anthropogenic substrates affect movement behavior of the Southern Graycheek Salamander (*Plethodon metcalfi*). *Canadian Journal of Zoology* 90: 1128–1135.
- Semlitsch, R. D., T. J. Ryan, K. Hamed, M. Chatfield, B. Drehman, N. Pekarek, M. Spath, and A. Watland. 2007. Salamander abundance along road edges and within abandoned logging roads in Appalachian forests. *Conservation Biology* 21: 159-167.
- Semlitsch, R. D., B. D. Todd, S. M. Blomquist, A. J. K. Calhoun, J. W. Gibbons, J. P. Gibbs, G. J. Graeter, E. B. Harper, J. Hocking, M. L. Hunter, Jr., D. A. Patrick, T. A. G. Rittenhouse, B. B. Rothermel. 2009. Effects of timber harvest on amphibian populations: Understanding mechanisms from forest experiments. *Bioscience* 59: 853-862.
- Servick, S. V., P. S. Soltis, and D. E. Soltis. 2011. Microsatellite marker development for *Galax urceolata* (Diapensiaceae). *American Journal of Botany* 98: 48-50.
- Shure, D. J., D. L. Phillips, and P. E. Bostick. 2006. Gap size and succession in cutover southern Appalachian forests: an 18-year study of vegetation dynamics. *Plant*

Ecology 185: 299-318.

- Simkin, S. M., W. K. Michener, and R. Wyatt. 2001. Soil disturbance elicits resprouting response in a fire-maintained ecosystem. *Journal of the Torrey Botanical Society* 128: 208-218.
- Sinn, B. T., L. M. Kelly, and J. V. Freudenstein. 2015a. Phylogenetic relationships in *Asarum*: Effect of data partitioning and a revised classification. *American Journal of Botany* 102: 765–779.
- Sinn, B. T., L. M. Kelly, and J. V. Freudenstein. 2015b. Putative floral brood-site mimicry, loss of autonomous selfing, and reduced vegetative growth are significantly correlated with increased diversification in *Asarum* (Aristolochiaceae). *Molecular Phylogenetics & Evolution* 89: 194-204.
- Sipe, T. W. and R. A. Browne. 2004. Intra-specific phylogeography of the masked shrew (*Sorex cinereus*) and smoky shrews (*S. fumeus*) in the southern Appalachians. *Journal of Mammalogy* 84: 161-175.
- Tilley, S. G. 2000a. *Desmognathus santeetlah*. *Catalog of American Amphibians and Reptiles* 703: 1-3.
- Tilley, S. G. 2000b. Systematics of *Desmognathus imitator*. pp. 121-147 In: *The Biology of Plethodontid Salamanders*. R. C. Bruce, R. G. Jaeger, and L. D. Houck, eds. New York: Kluwer Academic/Plenum Publishers.
- Tilley, S. G. and J. E. Huheey. 2001. *Reptiles and Amphibians of the Smokies*. Gatlinburg, TN: Great Smoky Mountains Natural History Association.
- Tran, T. and Elliott, K. 2012. Estimating *Rhododendron maximum* L. (Ericaceae) canopy cover using GPS/GIS technology. *Castanea* 77(4): 303-317.
- Vaccaro E. A., P. W. Feldhoff, R. C. Feldhoff, and L. D. Houck. 2009. Male Courtship pheromones suppress female tendency to feed but not to flee in a plethodontid salamander. *Animal Behavior* 78: 1421-1425.
- Vaccaro, E. A., P. W. Feldhoff, R. C. Feldhoff, L. D. Houck. 2010. A pheromone mechanism for swaying female mate choice: enhanced affinity for a sexual stimulus in a woodland salamander. *Animal Behaviour* 80: 983-989.
- Vernia, C. S., and L. F. Grand. 2000. Polypores of a North Carolina piedmont forest. *Mycotaxon* 74: 153-159.
- Verrell, P. 2000. Methoxychlor increases susceptibility to predation in the salamander *Ambystoma macrodactylum*. *Bulletin of Environmental Contamination and Toxicology* 64: 85-92.
- Verrell, P. 2003. Population and species divergence of chemical cues that influence male recognition of females in desmognathine salamanders. *Ethology* 109: 577-586.

- Verrell, P. and M. Mabry. 2000. The courtship of plethodontid salamanders. pp. 371-380
In: The Biology of Plethodontid Salamanders. R. C. Bruce, R. G. Jaeger, and L.D. Houck, eds. New York: Kluwer Academic/Plenum Publishers.
- Verrell, P. and M. Mabry. 2003. Sexual behaviour of the Black Mountain dusky salamander, *Desmognathus welteri*, and the evolutionary history of courtship in the Desmognathinae. *Journal of Zoology* 260: 367-376.
- Viviani, V. R., J. W. Hastings, and T. Wilson. 2002. Two bioluminescent Diptera: The North American *Orfelia fultoni* and the Australian *Arachnocampa flava*: Similar niche, different bioluminescence systems. *Photochemistry and Photobiology* 75: 22-27.
- Wack, C. L., M. B. Lovern, and S. K. Woodley. 2010. Transdermal delivery of corticosterone in terrestrial amphibians. *General and Comparative Endocrinology* 169: 269-275.
- Wack, C. L., S. E. DuRant, W. A. Hopkins, M. B. Lovern, R. C. Feldhoff, and S. K. Woodley. 2012. Elevated plasma corticosterone increases metabolic rate in a terrestrial salamander. *Comparative Biochemistry & Physiology A: Molecular & Integrative Physiology* 161(2): 153–158.
- Warren, R. J. II. 2016. Ghosts of cultivation past - Native American dispersal legacy persists in tree distribution. *PLoS One* doi: 10.1371/journal.pone.0150707.
- Warren, R.J. II, L. D. Chick, B. DeMarco, A. McMillan, V. DeStefano, R. Gibson and P. Pinzone. 2016. Climate-driven range shift prompts species replacement. *Insectes Sociaux* DOI 10.1007/s00040-016-0504-0.
- Warren, R. J. II, A. McMillan, J. R. King, L. Chick, and M. A. Bradford. 2015. Forest invader replaces predation but not dispersal services by a keystone species. *Biological Invasions* DOI 10.1007/s10530-015-0942-z.
- Watts, R. A., C. A. Palmer, R. C. Feldhoff, P. W. Feldhoff, L. D. Houck, A. G. Jones, M. E. Pfrender, S. M. Rollmann, and S. J. Arnold. 2004. Stabilizing selection on behavior and morphology masks positive selection on the signal in a salamander pheromone signaling complex. *Molecular Biology and Evolution* 21: 1032-1041.
- Wilburn, D. B. and W. J. Swanson. 2015. From molecules to mating: Rapid evolution and biochemical studies of reproductive proteins. *Journal of Proteomics* doi: 10.1016/j.jprot.2015.06.007.
- Wilburn, D. and W. J. Swanson. 2017. The “ZP domain” is not one, but likely two independent domains. *Molecular Reproduction and Development* doi: 10.1002/mrd.22781.
- Wilburn, D. B., S. L. Eddy, A. J. Chouinard, S. J. Arnold, R. C. Feldhoff, and L. D. Houck. 2015. Pheromone isoform composition differentially affects female

behavior in the red-legged salamander, *Plethodon shermani*. *Animal Behaviour* 100: 1–7.

- Wilburn, D. B., K. E. Bowen, R. G. Gregg, J. Cai, P. W. Feldhoff, L. D. Houck, and R. C. Feldhoff. 2011. Proteomic and UTR analyses of a rapidly evolving hypervariable family of vertebrate pheromones. *Evolution* 66(7): 2227–2239.
- Wilburn, D. B., K. E. Bowen, P. W. Feldhoff, and R. C. Feldhoff. 2014. Proteomic analyses of courtship pheromones in the Redback salamander, *Plethodon cinereus*. *Journal of Chemical Ecology* 40(8): 928-939.
- Wilburn, D. B., K. E. Bowen, K. A. Doty, S. Arumugam, A. N. Lane, P. W. Feldhoff, and R. C. Feldhoff. 2014. Structural insights into the evolution of a sexy protein: Novel topology and restricted backbone flexibility in a hypervariable pheromone from the Red-legged Salamander, *Plethodon shermani*. *PLoS One* 9(5): e96975.
- Wirsig-Wiechmann, C. R., L. D. Houck, P. W. Feldhoff, and R. C. Feldhoff. 2002. Pheromonal activation of vomeronasal neurons in plethodontid salamanders. *Brain Research* 952: 335-344.
- Wirsig-Wiechmann, C. R., L. D. Houck, J. M. Wood, P. W. Feldhoff, and R. C. Feldhoff. 2006. Male pheromone protein components activate female vomeronasal neurons in the salamander *Plethodon shermani*. *BMC Neuroscience* 7: 26.
- Woodley, S. K. 2007. Sex steroid hormones and sexual dimorphism of chemosensory structures in a terrestrial salamander (*Plethodon shermani*). *Brain Research* 1138: 95-103.
- Workman, S.W., B. Barlow, J. Fike. 2017. Southeast and Caribbean Regional Summary. pp. in Schoeneberger M.M., Bentrup G., Patel-Weynand T. (eds) 2017. *Agroforestry: Enhancing Resiliency in U.S. Agricultural Landscapes under Changing Conditions*. Gen Tech Rep WO-xxx. USDA-FS, Washington DC.
- Wyatt, R. 2002. Unique Georgia environments: Granite outcrops. [online] *In: The New Georgia Encyclopedia*. J. C. Enscoe, ed. Athens, Georgia: University of Georgia Press.
- Wyatt, R., S. B. Broyles, and S. L. Lipow. 2000. Pollen-ovule ratios in milkweeds (Asclepiadaceae): An exception that probes the rule. *Systematic Botany* 25: 171-180.
- Zomlefer, W. B., N. H. Williams, W. M. Whitten, and W. S. Judd. 2001. Genetic circumscription and relationships in the tribe Melanthieae (Liliales, Melanthiaceae), with emphasis on *Zigadenus*: Evidence from ITS and *trnL-F* sequence data. *American Journal of Botany* 88: 1657-1669.