

Faculty Publications

Publications (Journal Articles, Conference Papers, Book Chapters, and Books)

Names of faculty members are printed in **bold**. The list includes only those papers published while faculty members worked at Troy University. Listed alphabetically by year.

2017

- Beaton, K. R., J. Sharma, C. M. Jones, **J. M. Miller**, **P. M. Stewart**, **S. C. Landers**. 2017. Nematode assemblages in the Gulf of Mexico continental shelf collected during a two-year survey. *J. Exp. Mar. Biol. Ecol.* DOI: 10.1010/j.jembe.2017.08.006
- Francis, M. S., A. A. Amer, **D. L. Milton**, and T. R. Costa. 2017. Site-directed mutagenesis and its application in studying the interactions of T3S components. *Methods Mol Biol.* 531:11-31.
- Frischer, M. E., R. F. Lee, A. R. Price, T. L. Walter, M. A. Bassette, R. Verdiyev, M. C. Torris, K. Bulski, P. J. Geer, S. A. Powell, A. N. Walker, **S. C. Landers**. 2017. Causes, diagnostics, and distribution of an ongoing penaeid shrimp black gill epidemic in the South Atlantic Bight, USA. *J. Shellfish Res.* 36: 487-500
- Landers, S. C.**, M. V. Sørensen, K. R. Beaton, C. M. Jones, **J. M. Miller**, **P. M. Stewart**. 2017. Kinorhynch assemblages in the Gulf of Mexico continental shelf collected during a two-year survey. *J. Exp. Mar. Biol. Ecol.* DOI: 10.1016/j.jembe.2017.05.013
- Sørensen, M.V., and **S. C. Landers**. 2017. Description of a new kinorhynch species, *Paracentrophyes sanchezae* n. sp. (Kinorhyncha: Allomalorhagida) from the Gulf of Mexico, with differential notes on one additional, yet undescribed species in the genus. *Zootaxa* 4242(1): 61-76 <https://doi.org/10.11646/zootaxa.4242.1.3>
- Sørensen, M.V., and **S. C. Landers**. 2017. New species of Semnoderidae (Kinorhyncha: Cyclorhagida: Kentrorhagata) from the Gulf of Mexico. *Marine Biodiversity* DOI:10.1007/s12526-017-0728-x
- Woods, M.**, and E. W. Minton. 2017. *Lathyrus palustris* (Fabaceae) new to Alabama. *Phytoneuron* 2017-23: 1–4. Published 16 March 2017. ISSN 2153 733X.

2016

- Diamond, A. R.** 2016. *Asarum harperi*: A new combination for a *Hexastylis* (Aristolochiaceae) taxon. *Phytoneuron* 2016-9: 1–2.
- Diamond, A. R.** 2016. New vascular plant county records from Alabama. *Phytoneuron* 2016-72: 1–6. Published 7 November 2016. ISSN 2153 733X.

Diamond, A. R. 2016. Range extension and first record of *Fimbristylis perpusilla* (Cyperaceae) for Alabama. *Phytoneuron* 2016-10: 1–4. Published 3 February 2016. ISSN 2153 733X.

Gibson, K. J., **J. M. Miller**, P. D. Johnson, **P. M. Stewart**. 2016. Toxicity of sodium dodecyl sulfate to federally threatened and petitioned freshwater mollusk species. *Freshwater Mollusk Biology and Conservation* 19:29-35.

Homberg, J. R., E. J. Kyzar, M. L. Scattoni, W. H. Norton, **J. Pittman**, S. Gaikwad, M. Nguyen, M. K. Poudel, J. F. Ullmann, D. M. Diamond, A. A. Kaluyeva, M. O. Parker, R. E. Brown, C. Song, R. R. Gainetdinov, I. I. Gottesman, A. V. Kalueff. 2016. Genetic and environmental modulation of neurodevelopmental disorders: Translational insights from labs to beds. *Brain Res Bull.* 125:79-91.

Homberg, J. R., Kyzar, A. M. Stewart, M. Nguyen, M. K. Poudel, D. J. Echevarria, A. D. Collier, S. Gaikwad, V. M. Klimenko, W. Norton, **J. Pittman**, S. Nakamura, M. Koshiba, H. Yamanouchi, S. A. Apryatin, M. L. Scattoni, D. M. Diamond, J. F. Ullmann, M. O. Parker, R. E. Brown, C. Song, A. V. Kalueff. 2016. Improving treatment of neurodevelopmental disorders: recommendations based on preclinical studies. *Expert Opin Drug Discov.* 1:11-25.

Homberg, J. R., E. J. Kyzar, M. Nguyen, W. H. Norton, **J. Pittman**, M. K. Poudel, S. Gaikwad, S. Nakamura, M. Koshiba, H. Yamanouchi, M. L. Scattoni, J. F. Ullman, D. M. Diamond, A. A. Kaluyeva, M. O. Parker, V. M. Klimenko, S. A. Apryatin, R. E. Brown, C. Song, R. R. Gainetdinov, I. I. Gottesman, A. V. Kalueff. 2016. Understanding autism and other neurodevelopmental disorders through experimental translational neurobehavioral models. *Neurosci Biobehav Rev.* 65:292-312.

Jones, C. M., J. Sharma, **J. M. Miller**, **P. M. Stewart** and **S. C. Landers**. 2016. Nematode assemblages of the northern Gulf of Mexico continental shelf. [Proceedings of the Biological Society of Washington](#). 129: 24-37. doi: 10.2988/0006-324X-129.Q1.24

Jones, J., **A. Mukherjee**, B. Karanam, M. Davis, J. Jaynes, R. R. Reams, W. Dean-Colomb, and C. Yates. 2016. *African Americans with Pancreatic Ductal Adenocarcinoma Exhibit Gender Differences in Kaiso Expression*. *Cancer Lett*, 2016. 380(2): p. 513-22.

Keating, M. P., C. A. Ochs, D. Balachandran, M. M. Holland, R. E. Lizotte, **K. W. Yu**. 2016. Spatial variation related to hydrologic patterns and vegetation in greenhouse gas fluxes from the Mississippi Delta agricultural region. *Applied Soil Ecology* 98: 278–81.

Landers, S. C., and M. V. Sørensen. 2016. Two new species of *Echinoderes* (Kinorhyncha: Cyclorhagida), *E. romanoi* sp. n., and *E. joyceae* sp. n., from the Gulf of Mexico. *ZooKeys* 594: 51-71. doi:10.3897/zookeys.594.8623

- Martinez, C. C., J. Sharma, **J. M. Miller**, **P. M. Stewart** and **S. C. Landers**. 2016. Nematode assemblages of the northern Gulf of Mexico continental shelf. *Proceeding of the Biological Society of Washington* 129: 24-37.
- Niraula, B. B., J. M. Hyde, **J. M. Miller**, **P. M. Stewart**. 2016. Differential sediment stability for two federally threatened and one common species of freshwater mussels in southeastern coastal plain streams, USA. *Journal of Freshwater Ecology*. DOI: 10.1080/02705060.2016.1248501
- Niraula, B. B., J. M. Hyde, **J. M. Miller**, P. D. Johnson, **P. M. Stewart**. 2016. Microhabitat associations among three federally threatened and a common freshwater mussel species. *American Malacological Bulletin* 33(2): 195-203. doi:10.4003/006.033.0201
- Pittman, J.** 2016. Developing Zebrafish Depression-Related Models. In: *The Rights and Wrongs of Zebrafish: Behavioral Phenotyping of Zebrafish*. Springer Nature Publishing, 33-45.
- Pittman, J.** 2016. Zebrafish Neurotoxicity Models. In: *The Rights and Wrongs of Zebrafish: Behavioral Phenotyping of Zebrafish*. Springer Nature Publishing, 207-221.
- Rinklebe, J., S. M. Shaheen and **K. W. Yu**. 2016. Release of As, Ba, Cd, Cu, Pb, and Sr under pre-definite redox conditions in different rice paddy soils originating from the U.S.A., and Asia. *Geoderma* 270: 21-32.
- Riscassi, A., **C. Miller**, B. Brooks. 2016. Seasonal and flow-driven dynamics of particulate and dissolved mercury and methylmercury in a stream impacted by an industrial mercury source. *Environ. Tox., and Chem.* 35:1386-1400.
- Sørensen, M. V., M. Herranz and **S. C. Landers**. 2016. A new species of *Echinoderes* (Kinorhyncha: Cyclorhagida) from the Gulf of Mexico, with a redescription of *Echinoderes bookhouti* Higgins, 1964. *Zoologischer Anzeiger* doi:10.1016/j.jcz.2016.04.004
- Tran, M., **J. W. Park**, 2016. Bacterial Community Shift in Marine Tar Balls following Low Salinity Exposure, *Lett Appl Microbiol*. Under review.
- Tran, M., **K. Yu**, **J.W. Park**, 2016. Unique Bacterial Community in Tar-Filled Shells and Tar Balls on the Alabama Gulf Coast, *Environ Monit Assess*. Under review.
- Woods, M.**, and **A. Diamond**. 2016. *Alysicarpus ovalifolius* and *Alysicarpus vaginalis* (Fabaceae) in Alabama. *Phytoneuron* 2016-46: 1–3. Published 14 June 2016. ISSN 2153 733X.
- Woods, M.**, **A. Diamond**, and J. R. Burkhalter. 2016. *Cyperus tetragonus* and *Desmodium triflorum*: New vascular plant records from Alabama. *Phytoneuron* 2016-59: 1–4. Published 17 August 2016. ISSN 2153 733X.

2015

- Al Jawasim, M., **K. Yu, J. W. Park**, 2015. Synergistic Effect of Crude oil plus Dispersant on Bacterial Community in a Louisiana Salt Marsh Sediment, *FEMS Microbiol Lett.* 362:fnv144 1-7.
- Diamond, A. R.** 2015. Two species rediscovered in Alabama after 100 years. *Phytoneuron* 2015-47: 1–3.
- Mathews, T., B. Looney, L. Bryan, J. Smith, **C. Miller**, G. Southworth, M. Peterson. 2015. The effects of a stannous chloride-based water treatment system in a mercury contaminated stream. *Chemosphere* 138: 190-196.
- Miller, C.**, D. Watson, B. Lester, J. Howe, D. Philips, L. Liang, E. Pierce. 2015. Formation of soluble mercury oxide coatings: transformation of elemental mercury in soil. *Environ. Sci. Technol.* 49: 12105-12111.
- Niraula, B. B., **J. M. Miller**, J. M. Hyde, **P. M. Stewart**. 2015. Instream habitat associations among three federally threatened and a common freshwater mussel species in a southeastern watershed. *Southeastern Naturalist* 14(2): 221-230.
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- Pittman, J.**, A. Hylton. 2015. Behavioral, endocrine, and neuronal alterations in zebrafish (*Danio rerio*) following sub-chronic coadministration of fluoxetine and ketamine. *Pharmacol Biochem Behav.* 139: 158-162.
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- Sørensen, M. V. and **S. C. Landers**. 2015. Corrigendum: Two new species of Echinoderes (Kinorhyncha: Cyclorhagida) from the Gulf of Mexico. *Frontiers in Marine Science* 2:43.
- Stoeckel, J., B. Helms, M. Catalano, **J. M. Miller**, K. J. Gibson, **P. M. Stewart**. 2015. Evaluation of a low-cost sampling protocol for a coordinated, crayfish life-history sampling effort. *Freshwater Crayfish: Proceedings of the Southern Division of American Fisheries Society* 21(1):131-141. doi:10.5869/fc2015.v21-1.

2014

- Burchill, J. L., and **A. Diamond**. 2014. A Herpetofaunal Survey of Pike County, Alabama, USA. *Herpetological Review* 45 (1), 98–99.

- Diamond, A. R.** 2014. New and noteworthy vascular plant records from Alabama. *Phytoneuron* 2014-103: 1–10. Published 12 November 2014. ISSN 2153 733X.
- Gu, B., B. Mishra, **C. Miller**, W. Wang, B. Lai, B. Brooks, K. Kemner, L. Liang. 2014. X-ray fluorescence mapping of mercury on suspended mineral particles and diatoms in a contaminated freshwater system. *Biogeosciences*. 11: 1-6
- Gupta, A., **K. Yu, J. W. Park.** 2014. Dominant Indigenous Bacteria in Gasoline-Treated Marshes around Lake Pontchartrain, Louisiana. *Water Air Soil Pollut.* 225:1-10.
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- Jia, M., **J. Pittman.** 2014. Deficits in Striatal Dopamine and Hippocampal Serotonin Following Induction of Anxiety/Depressive-Like Behaviors by Bisphenol A. *Arch Neurosci.* 2(2): 1-6.
- Landers, S. C.,** A. C. Nichols, C. A. Schimmer, **P. M. Stewart,** S. Ramroop, D. A. Steffy and F. A. Romano, III. 2014. Meiofauna and trace metals from sediment collections in Florida following the Deepwater Horizon oil spill. *Gulf of Mexico Science* 32: 1-10.
- Landers, S. C.,** A. C. Nichols, N. K. Barron, C. A. Schimmer, R. Tao, **K. Yu, P. M. Stewart** and E. Ólaffson. 2014. Nematode and copepod diversity (2012) from Louisiana near the Deepwater Horizon spill site. *Proceedings of the Biological Society of Washington* 127(1): 47-57. <http://www.pbsw.org/loi/pbsw>
- Liu, H., **J. W. Park.** M.M. Häggblom, 2014. Enriching for Microbial Reductive Dechlorination of Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans. *Environ. Pollut.* 184:222-230.
- Pace, N., and **C. A. Boyd.** 2014. Inventory of Shellfish Restoration Permitting and Programs in the Coastal States. Mississippi Alabama Sea Grant Legal Center, National Sea Grant Law Center. The Nature Conservancy Cost Share #19812203049. <http://masglp.olemiss.edu/projects/files/tnc-report.pdf>
- Martinez, C. C., **J. M. Miller,** N. K. Barron, R. Tao, **K. Yu, P. M. Stewart,** A. C. Nichols, D. A. Steffy and **Landers, S.C.** 2014. Sediment chemistry and meiofauna from the northern Gulf of Mexico continental shelf. *International Journal of Oceanography*. <http://dx.doi.org/10.1155/2014/625718>
- Miller, J. M.,** B. B. Niraula, E. G. Reátegui-Zirena, **P. M. Stewart.** 2014. Life history and physical observations of primary burrowing crayfish (Decapoda: Cambaridae) *Cambarus (Lacunicambarus) diogenes* and *Cambarus (Tubericambarus) polychromatus*. *Journal of Crustacean Biology* 34(1): 15-24. DOI: 10.1163/1937240X-00002199.

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- Pittman, J.** 2014. “Anxiety/Depression-related Animal Models: Zebrafish and Diazepam”. In: Diazepam: Medical Uses, Pharmacology and Health Effects. Nova Publishers. Chapter 5. (ISBN: 978-1-62948-627-7).
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2013

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Diamond, A. R., J. Kevin England, and Bailee Dykes. 2013. New to Alabama: Pitted bluestem, *Bothriochloa pertusa* (Poaceae). *Phytoneuron* 2013-40. 1–5. Published 24 June 2013. ISSN 2153 733X.

Kalueff, A.V., M. Gebhardt, A. M. Stewart, J. M. Cachat, M. Brimmer, J. S. Chawla, C. Craddock, E. J. Kyzar, A. Roth, S. Landsman, S. Gaikwad, K. Robinson, E. Baatrup, K. Tierney, A. Shamchuk, W. Norton, N. Miller, T. Nicolson, O. Braubach, C. P. Gilman, **J. Pittman**, D. B. Rosemberg, R. Gerlai, D. Echevarria, E. Lamb, S. C. F. Neuhaus, W. Weng, L. Bally-Cuif, H. Schneider, and the Zebrafish Neuroscience Research Consortium (ZNNRC). 2013. Towards a Comprehensive Catalog of Zebrafish Behavior 1.0 and Beyond. *Zebrafish.* 10, 70-86.

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2012

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Diamond, A. R., and Brian R. Keener. 2012. Three noteworthy additions to the Alabama Flora. *Journal of the Botanical Research Institute of Texas* 6(2): 615 – 616.

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- Landers, S. C.**, F. A. Romano. III, **P. M. Stewart** and S. Ramroop. 2012. A multi-year survey of meiofaunal abundance from the northern Gulf of Mexico continental shelf and slope. *Gulf of Mexico Science* 30(1-2):20-29. <http://goms.disl.org/Vol30No1/goms-30-01-02-20.pdf>
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