

## Kevin M. Kocot, Ph.D.

Associate Professor and Curator of Invertebrate Zoology  
Department of Biological Sciences and Alabama Museum of Natural History  
University of Alabama, Tuscaloosa, AL 35487  
[kmkocot@ua.edu](mailto:kmkocot@ua.edu) | 1-205-348-4052 | [www.kocotlab.com](http://www.kocotlab.com)

### CURRENT APPOINTMENTS

8/2021-present Associate Professor, Department of Biological Sciences, University of Alabama (UA)  
1/2016-8/2021 Assistant Professor, Department of Biological Sciences, University of Alabama (UA)  
1/2016-present Curator of Invertebrate Zoology, Alabama Museum of Natural History

### EDUCATION & POSTDOCTORAL TRAINING

1/2014 - 12/2015 Postdoctoral Researcher, University of Queensland (UQ). PI: Dr. Bernie Degnan.  
5/2013 - 12/2013 Postdoctoral Researcher, Auburn University (AU). PI: Dr. Ken Halanych.  
8/2007 - 5/2013 Ph.D. in Molecular Biology, AU. Dissertation title: A combined approach toward resolving the phylogeny of Mollusca. Committee: Drs. Ken Halanych (chair), Scott Santos, Leslie Goertzen, Jason Bond, and Christiane Todt.  
8/2002 - 12/2006 B.S. in Biological Sciences, Illinois State University (ISU).

### PEER-REVIEWED JOURNAL ARTICLES

1. Liu, H., J.L. Steenwyk, X. Zhou, D.T. Schult, **K.M. Kocot**, X. Shen, N. King, A. Rokas, and Y. Li. *Submitted manuscript*. A genome-scale Opisthokonta tree of life: toward phylogenomic resolution of ancient divergences. *Nature Communications*.
2. Saadi, A., A.L. Oliveira, **K.M. Kocot** and T. Schwaha. *In revision*. Genomic and transcriptomic survey of bryozoan Hox and ParaHox genes with emphasis on phylactolaemate bryozoans. *BMC Genomics*.
3. H. Song, Y. Wang, H. Shao, Z. Li, P. Hu, M.K. Yap-Chiongco, P. Shi, T. Zhang, C. Li, Y. Wang, P. Ma, Jakob Vinther, H. Wang, and **K.M. Kocot**. 2023. Scaphopoda is the sister taxon to Bivalvia: evidence of ancient incomplete lineage sorting. *Proceedings of the National Academy of Sciences* 120(40): e2302361120.
4. Cobo, M.C.\*, E.L. McLaughlin\*, and **K.M. Kocot**. 2023. Three new Solenogastres (Mollusca, Aplacophora) from the South China Sea and the non-monophyly of Proneomeniidae Simroth 1893. *Invertebrate Systematics* 37(6): 301-333.
5. Cobo, M.C., E.L. McLaughlin, and K.M. Kocot 2023. Four new Solenogastres (Mollusca, Aplacophora) from the South China Sea and paraphyly of Proneomeniidae Simroth, 1893. *Invertebrate Systematics* 37(5): 301-333.
6. Jabr, N., P. Gonzalez, K.M. Kocot, and C.B. Cameron. 2023. The embryology, metamorphosis, and muscle development of *Schizocardium karankawa* sp. nov. (Enteropneusta) from the Gulf of Mexico. *EvoDevo* 14(1): 6.
7. O'Brien, K.M., E.L. Crockett, B.J. Adams, C.D. Amsler, H.J. Appiah-Madson, A. Collins, H.W. Detrich III, D.L. Distel, S.M. Eppley, B.W. Frable, N.M. Franz, J.M. Grim, **K.M. Kocot**, A.R. Mahon, T.J. Mayfield-Meyer, J.A. Mikucki, W.E. Moser, M. Schull, C.A. Seid, C.R. Smith, A.E. Todgham, and G.J. Watkins-Colwell. 2022. The time is right for an Antarctic biorepository network. *Proceedings of the National Academy of Sciences* 119(50): e2212800119.
8. McCutcheon, M.G.\*, **K.M. Kocot**, and M.C. Cobo Llovo\*. 2022. Uncovering the biodiversity of Solenogastres (Mollusca, Aplacophora) with three new species of Proneomeniidae Simroth, 1893 and new data for *Dorymenia quincarinata* (Ponder, 1970). *Molluscan Research* 42(4): 271-286.
9. Batts, R.A.\*, K.N. Whitman\*, K. Meißner, and **K.M. Kocot**. 2022. Biodiversity and Phylogeny of North Atlantic Euprosinidae (Annelida). *Diversity* 14(11): 996
10. Saadi, A., J. Bibermaier, J., **K.M. Kocot**, N.G. Roberts\*, M. Hirose, A. Calcino, C. Baranyi, R. Chaichana, T. Wood, and T. Schwaha. Accepted manuscript. Phylogenomics reveals deep relationships and diversification within phylactolaemate bryozoans. *Proceedings of the Royal Society B*.
11. Kaiser, S., Błażewicz, M., **Kocot, K.M.**, Riehl, T., Leduc, D., and Rouse, G.W. 2022. Recent and emerging innovations in deep-sea taxonomy to enhance biodiversity assessment and conservation. *Frontiers in Marine Science* 9: 989245
12. Drábková, M.\*, **K.M. Kocot**, K.M. Halanych, T.H. Oakley, L.L. Moroz, J.T. Cannon, A. Kuris, A.E. Garcia-Vedrenne, M.S. Pankey, E.A. Ellis, R.M. Varney\*, J. Štefka, and J. Zrzavý. 2022. Different phylogenomic

methods support monophyly of enigmatic ‘Mesozoa’ (Dicyemida+ Orthonectida, Lophotrochozoa). *Proceedings of the Royal Society B* 289(1978): 20220683.

13. Varney, R.M.\*, M.K. Yap-Chiongco\*, N.T. Mikkelsen, and **K.M. Kocot**. 2022. Genome of the lepidopleurid chiton *Hanleya hanleyi* (Mollusca, Polyplacophora). *F1000 Research* 11: 555.
14. Krug, P.J., S.A. Caplins, K. Algoso, K. Thomas, A.A. Valdes, R. Wade, N.L. Wong, D.J. Eernisse, **K.M. Kocot**. 2022. Phylogenomic resolution of the root of Panpulmonata, a hyperdiverse radiation of gastropods: new insight into the evolution of air breathing. *Proceedings of the Royal Society B* 289: 20211855.
15. Maroni, P.J., B. J. Baker, A. Moran, A. Woods, C. Avila, G. Johnstone, J.S. Stark, **K.M. Kocot**, S. Lockhart, T. Saucède, G.W. Rouse, and N.G. Wilson. 2022. One Antarctic slug to confuse them all: the underestimated diversity of *Doris kerguelensis*. *Invertebrate Systematics* <https://doi.org/10.1071/IS21073>.
16. Ahmed, A., N.G. Roberts\*, F. Adediran, A.B. Smythe, **K.M. Kocot**, and O. Holovachov. 2022. Phylogenomic Analysis of the Phylum Nematoda: Conflicts and Congruences with Morphology, 18S rRNA, and Mitogenomes. *Frontiers in Ecology and Evolution* 9:769565.
17. Martínez Sanjuán, J.\*, Ó. García Álvarez, M. Candás, G. Díaz-Agras, and **K.M. Kocot**. 2022. Micro-CT 3D anatomical reconstruction of *Proneomenia sluiteri* Hubrecht, 1880, *Dorymenia menchuescribanae* García-Álvarez, Urganorri and Salvini-Plawen, 2000 and *Anamenia gorgonophila* (Kowalevsky, 1880) (Mollusca, Solenogastres, Cavibelonia). *Frontiers in Marine Science* 8: 769565.
18. Neusser, T.P. F.S. Bergmeier, C. Egger, M.K. Yap-Chiongco\*, **K.M. Kocot**, and Katharina M. Joger. 2021. Shallow-water interstitial malacofauna of the Azores. *Acroana* Suplemento 11: 103-123.
19. Taylor, J., Devey, C., Le Saout, M., Petersen, S., M., Frutos, I., I., Linse, K., Loerz, A.-N., Pałgan, D., Tandberg, A.H., Svavarsson, J., Thorhallsson, D., Tomkowicz, A., Egilsdottir, H., Ragnarsson, S.A., Renz, J., Markasheva, L., Gollner, S., Paulus, E., Diaz, G., Tato, R., Kongsrud, J., Beermann, J., **Kocot, K.M.**, Meißner, K., Bartholomä, A., Hoffman, L., Vannier, P., Marteinsson, V., Rapp H.T. and Brix, S. 2021. The geological and faunal composition of Steinahóll Vent Sites, Reykjanes Ridge, Iceland. *Frontiers in Marine Science* 8:520713.
20. Sun, J., R. Li, C. Chen, J.D. Sigwart, and **K.M. Kocot**, 2021. Benchmarking Oxford Nanopore read assemblers for high-quality molluscan genomes. *Philosophical Transactions of the Royal Society B* 376: 1825.
21. Davis-Berg, E.C. and **K.M. Kocot**. 2021. Innovation in teaching and learning invertebrate zoology in remote and online classrooms. *Invertebrate Biology* e12329.
22. Cobo, M.C.\* and **K.M. Kocot**. 2021. On the diversity of abyssal Dondersiidae (Mollusca, Aplacophora) with the description of a new genus, seven new species, and a review of the family. *Zootaxa* 4933(1): 63-97.
23. Varney, R.M.\*, D.I. Speiser, C. McDougall, B.M. Degnan, and **K.M. Kocot**. 2021. The iron responsive genome of the chiton *Acanthopleura granulata* (Mollusca, Aculifera). *Genome Biology and Evolution* 13(1): evaa263.
24. Varney, R.M.\*, B. Brenzinger, M.A.E. Malaquias, C.P. Meyer, M. Schrödl, and **K.M. Kocot**. 2021. Assessment of mitochondrial genomes for heterobranch gastropod phylogenetics. *BMC Evolutionary Biology* 21:6.
25. Ramírez-Guerrero, G.M., **K.M. Kocot**, and C.B. Cameron. 2020. Zooid morphology and molecular phylogeny of the graptolite *Rhabdopleura annulata* (Hemichordata, Pterobranchia) from Heron Island, Australia. *Canadian Journal of Zoology* 98(12):844-849.
26. Kong, L., Y. Li, **K.M. Kocot**, Y. Yang, L. Qi, Q. Li, and K.M. Halanych. 2020. Mitogenomics reveals phylogenetic relationships of Arcoida (Mollusca, Bivalvia) and multiple independent expansions and contractions in mitochondrial genome size. *Molecular Phylogenetics and Evolution* 150:106857.
27. Cobo, M.C.\* and **K.M. Kocot**. 2020. *Micromenia amphiatlantica* sp. nov.: First solenogaster (Mollusca, Aplacophora) with an amphi-Atlantic distribution and insight into abyssal solenogaster diversity. *Deep Sea Research Part I* 157:103189.
28. **Kocot, K.M.**, A.J. Poustka, I. Stöger, K.M. Halanych, and M. Schrödl. 2020. New data from Monoplacophora and a carefully-curated dataset resolve molluscan relationships. *Scientific Reports* 10:101.
29. Laumer, C.E., R. Fernández, S. Lemer, D. Combosch, **K.M. Kocot**, A. Riesgo, S.C.S. Andrade, W. Sterrer, M.V. Sørensen, and G. Giribet. 2019. Revisiting metazoan phylogeny with genomic sampling of all phyla. *Proceedings of the Royal Society B: Biological Sciences* 286: 20190831.
30. Varney, R.M.\*, P. Funch, **K.M. Kocot**, and M.V. Sørensen. 2019. A new species of *Echinoderes* (Cyclorhagida: Echinoderidae) from the San Juan Islands, Washington State, USA, and insights into the kinorhynch transcriptome. *Zoologischer Anzeiger* 282: 52-63.
31. Smythe, A.B., O. Holovachov, and **K.M. Kocot**. 2019. Improved phylogenomic sampling of free-living nematodes enhances resolution of higher-level nematode phylogeny. *BMC Evolutionary Biology* 19:121.

32. Sogabe, S., W. L. Hatleberg, **K.M. Kocot**, T. E. Say, D. Stoupin, K. Roper, S. Fernandez-Valverde, S. M. Degnan, and B. M. Degnan. 2019. Pluripotency and the origin of animal multicellularity. *Nature*. 570: 519-522.
33. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2019. Phylogenomics of Aplacophora (Mollusca, Aculifera) and a solenogaster without a foot. *Proceedings of the Royal Society B: Biological Sciences* 286(1902):20190115.
34. Mikkelsen, N.T., C. Todt, **K.M. Kocot**, K.M. Halanych, and E. Willassen. 2018. Molecular phylogeny of Caudofoveata (Mollusca) challenges traditional views. *Molecular Phylogenetics and Evolution* 132: 138-150.
35. Galaska, M.P., Y. Li, **K.M. Kocot**, A.R. Mahon, and K.M. Halanych. 2019. Conservation of mitochondrial genome arrangements in brittle stars (Echinodermata, Ophiuroidea). *Molecular Phylogenetics and Evolution* 130:115-120.
36. Li, Y., **K.M. Kocot**, M.G. Tassia, J.T. Cannon, M. Bernt, and K.M. Halanych. 2018. Mitogenomics reveals a novel genetic code in Hemichordata. *Genome Biology and Evolution* evy254.
37. Pabst, E.A.\* and **K.M. Kocot**. 2018. Phylogenomics confirms monophyly of Nudipleura (Gastropoda: Heterobranchia). *Journal of Molluscan Studies* 84(3): 259–265.
38. Mikkelsen, N.T., **K. M. Kocot**, and K.M. Halanych. 2018. Mitogenomics reveals phylogenetic relationships of caudofoveate aplacophoran molluscs. *Molecular Phylogenetics and Evolution*. 127: 429-436.
39. Rodriguez, J., T.P. Jones, P. Sierwald, P.E. Marek, W.A. Shear, M.S. Brewer, **K.M. Kocot**, and J.E. Bond. 2018. Step-wise evolution of complex chemical defenses in millipedes: a phylogenomic approach. *Scientific Reports* 8: 3209.
40. **Kocot, K.M.**, Tassia, M.G., Halanych, K.M. and Swalla, B.J., 2018. Phylogenomics offers resolution of major tunicate relationships. *Molecular Phylogenetics and Evolution* 121: 166-173.
41. Kersken, D., **K.M. Kocot**, D. Janussen, T. Schell, M. Pfenninger, and P.M. Arbizu. 2018. First insights into the phylogeny of deep-sea glass sponges (Hexactinellida) from polymetallic nodule fields in the Clarion-Clipperton Fracture Zone (CCFZ), northeastern Pacific. *Hydrobiologia* 108: 101-112.
42. Whelan, N.V., **K. M. Kocot**, T. P. Moroz, K. Mukherjee, P. Williams, G. Paulay, L. L. Moroz and K. M. Halanych. 2017. Ctenophore relationships and their placement as the sister group to all other animals. *Nature Ecology & Evolution* 1(11): 1737.
43. Marlow, J., Borrelli, C., Jungbluth, S.P., Hoffman, C., Marlow, J., Girguis, P.R., and the AT36 Team. 2017. Opinion: Telepresence is a potentially transformative tool for field science. *Proceedings of the National Academy of Sciences* 114: 4841-4844.
44. Hall, M.R., **K.M. Kocot**, K.W. Baughman, S.L. Fernandez-Valverde, M.E.A. Gauthier, W.L. Hatleberg, A. Krishnan, C. McDougall, C.A. Motti, E. Shoguchi, T. Wang, X. Xiang, M. Zhao, U. Bose, C. Shinzato, K. Hisata, M. Fujie, M. Kanda, S.F. Cummins, N. Satoh, S.M. Degnan, and B.M. Degnan. 2017. The crown-of-thorns starfish genome as a guide for biocontrol of this coral reef pest. *Nature* 544: 231-234.
45. Halanych, K.M. and **K.M. Kocot**. 2017. Genome evolution: Shellfish genes. *Nature Ecology and Evolution* 1:0142.
46. Woolstra, C.R., GIGA Community of Scientists, G. Wörheide, and J.V. Lopez. 2017. Advancing genomics through the Global Invertebrate Genomics Alliance (GIGA). *Invertebrate Systematics*, 31(1): 1-7.
47. Tanner, A.R., D. Fuchs, I.E. Winkelmann, M.T.P. Gilbert, M.S. Pankey, A.M. Ribeiro, **K.M. Kocot**, K.M. Halanych, T.H. Oakley, R.R. da Fonseca, D. Pisani, J. Vinther. 2017. Molecular clocks indicate turnover and diversification of modern coleoid cephalopods during the Mesozoic Marine Revolution. *Proceedings of the Royal Society B: Biological Sciences* 284: 20162818.
48. Stöger, I., **Kocot, K.M.**, Poustka, A.J., Wilson, N.G., Ivanov, D., Halanych, K.M., and Schrödl, M. 2017. Monoplacophoran mitochondrial genomes: convergent gene arrangements and little phylogenetic signal. *BMC Evolutionary Biology* 16:274.
49. **Kocot K.M.**, T.H. Struck, J. Merkel, D.S. Waits, C. Todt, P.M. Brannock, D.A. Weese, J.T. Cannon, L.L. Moroz, B. Lieb, and K.M. Halanych. 2017. Phylogenomics of Lophotrochozoa with consideration of systematic error. *Systematic Biology* 66(2): 256-282.
50. Li, Y., **K.M. Kocot**, N.V. Whelan, S.R. Santos, D.S. Waits, D.J. Thornhill, and K.M. Halanych. 2016. Phylogenomics of tubeworms (Siboglinidae, Annelida) and comparative performance of different reconstruction methods. *Zoologica Scripta* 46(2): 200–213.
51. **Kocot, K.M.**, F. Aguilera, C. McDougall, D.J. Jackson, and B.M. Degnan. 2016. Sea shell diversity and rapidly evolving secretomes: insights into the evolution of biomineralization. *Frontiers in Zoology* 13(1): 1.
52. Garrison, N.L., J. Rodriguez, I. Agnarsson, J.A. Coddington, C.E. Griswold, C.A. Hamilton, M. Hedin, **K.M. Kocot**, J.M. Ledford, and J.E. Bond. 2016. Spider phylogenomics: untangling the Spider Tree of Life. *PeerJ* 4:e1719.

53. Halanych, K. M., N.V. Whelan, **K.M. Kocot**, A.B. Kohn, and L. L. Moroz. 2016. Miscues misplace sponges. *Proceedings of the National Academy of Sciences*, 201525332.
54. **Kocot, K.M.** 2016. On 20 years of Lophotrochozoa. *Organisms Diversity and Evolution*, 16: 329-343.
55. Whelan, N.V., **K.M. Kocot**, L.L. Moroz, and K.M. Halanych. 2015. Employing phylogenomics to resolve basal animal phylogeny. *Integrative and Comparative Biology* 55(6): 1084-1095.
56. Whelan, N.V., **K.M. Kocot**, L.L. Moroz, and K.M. Halanych. 2015. Error, signal, and the placement of Ctenophora sister to all other animals. *Proceedings of the National Academy of Sciences* 112(18): 5773-5778.
57. Havird, J.C., **K.M. Kocot**, P.M. Brannock, J.T. Cannon, D.S. Waits, D.A. Weese, S.R. Santos, and K.M. Halanych. 2015. Reconstruction of cyclooxygenase evolution in animals suggests variable, lineage-specific duplications, and homologs with low sequence identity. *Journal of Molecular Evolution* 80(3-4): 1-16.
58. Li, Y., **K.M. Kocot**, S.R. Santos, D.J. Thornhill, and K.M. Halanych. 2015. Mitogenomics reveals phylogeny and dramatic size variations of control regions in the deep-sea family Siboglinidae (Annelida). *Molecular Phylogenetics and Evolution* 85: 221-229.
59. **Kocot, K.M.** and C. Todt. 2014. Three new species of meiofaunal solenogasters (Mollusca, Aplacophora) from Friday Harbor, WA, USA. *Journal of Natural History* 48: 3007-3031.
60. Whelan, N.V. **K.M. Kocot**, S.R. Santos, and K.M. Halanych. 2014. Nemertean toxin genes revealed through transcriptome sequencing. *Genome Biology and Evolution* 6(12):3314-3325.
61. Cannon, J.T., **K.M. Kocot**, D.S. Waits, D.A. Weese, B.J. Swalla, S.R. Santos, and K.M. Halanych. 2014. Phylogenomic Resolution of the hemichordate and echinoderm clade. *Current Biology* 24(23): 2827-2832.
62. Halanych, K.M. and **K.M. Kocot**. 2014. Repurposed transcriptomes facilitate discovery of innate immunity Toll-Like Receptor (TRLs) genes across Lophotrochozoa. *Biological Bulletin* 227.2: 201-209.
63. Todt, C. and **K.M. Kocot**. 2014. New records for *Proneomenia sluiteri* (Mollusca: Solenogastres) from Iceland and description of a new species, the brooding *Proneomenia custodiens* n. sp. *Polish Journal of Polar Research* 35(2): 291-310.
64. Brix, S., K. Meißner, B. Stransky, K.M. Halanych, R. Jennings, **K. Kocot**, and J. Svavarsson. 2014. The idea of the IceAGE project – a follow up of BIOICE. *Polish Journal of Polar Research* 35(2): 141-150.
65. Moroz, L.L., **K.M. Kocot**, M.R. Citarella, S. Dosung, T.P. Norekian, I.S. Povolotskaya, A.P. Grigorenko, C. Dailey, E. Berezikov, K. Buckley, D. Reshetov, A. Ptitsyn, K. Mukherjee, T.P. Moroz, E. Dabe, F. Yu, V.V. Kapitonov, J. Jurka, Y. Bobkov, J.J. Swore, D.O. Girardo, R. Bruders, C.E. Mills, V.V. Solovyev, J. Rast, B. J. Swalla, F.A. Kondrashov, J.V. Sweedler, E.I. Rogaev, K.M. Halanych, and A.B. Kohn. 2014. The genome of the ctenophore and the emergence of nervous systems. *Nature* 510: 109-114.
66. Doty, K.E., A.M. Betzelberger, **K.M. Kocot**, and M.E. Cook. 2014. Immunofluorescence localization of the tubulin cytoskeleton during cell division and cell growth in members of the coleochaetales. *Journal of Phycology* 50(4): 624-639.
67. **Kocot, K.M.**, M.R. Citarella, L.L. Moroz, and K.M. Halanych. 2013. PhyloTreePruner: a phylogenetic tree-based approach for selection of orthologous sequences for phylogenomics. *Evolutionary Bioinformatics* 2013(9): 429-435.
68. **Kocot, K.M.**, K.M. Halanych, and P.J. Krug. 2013. Phylogenomics supports the Panpulmonata hypothesis: Resolving key steps in the evolutionary radiation of gastropod molluscs. *Molecular Phylogenetics and Evolution* 69(3): 764-771.
69. **Kocot, K.M.** 2013. Recent advances and unanswered questions in deep molluscan phylogenetics. *American Malacological Bulletin* 31(1): 1-14.
70. Scheltema, A.M., C. Schander, and **K.M. Kocot**. 2012. Hard and soft anatomy in two genera of Dondersiidae (Mollusca, Aplacophora, Solenogastres). *Biological Bulletin* 222: 233-269.
71. Kohn, A.B., M.R. Citarella, **K.M. Kocot**, Y.V. Bobkova, K.M. Halanych, and Leonid L Moroz. 2012. Rapid evolution of the compact and unusual mitochondrial genome in the ctenophore, *Pleurobrachia bachei*. *Molecular Phylogenetics and Evolution* 63: 203-207.
72. Pierce, S.K., X. Fang, J.A. Schwartz, X. Jiang W. Zhao, N.E. Curtis, **K.M. Kocot**, B. Yang, and J. Wang. 2011. Transcriptomic evidence for the expression of horizontally transferred algal nuclear genes in the photosynthetic sea slug, *Elysia chlorotica*. *Molecular Biology and Evolution* 29(6): 1545-1556.
73. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomics reveals deep molluscan relationships. *Nature* 477: 452-456.
74. **Kocot, K.M.** and S.R. Santos. 2009. Secondary structural modeling of the second internal transcribed spacer (ITS2) from *Pfiesteria*-like dinoflagellates (Dinophyceae). *Harmful Algae* 8(3):441-446.

75. Jannot, J.E., J. Brinton, **K.M. Kocot**, O. Akman, and S.A. Juliano. 2009. Ontogenetic mechanisms underlying a geographic size cline in a grasshopper, *Romalea microptera*. *Annals of the Entomological Society of America* 102(3) 467-475.

\*Kocot lab student or postdoc

#### PEER-REVIEWED BOOK CHAPTERS

1. **Kocot, K.M.**, C. McDougall, and B.M. Degnan. 2016. Developing Perspectives on Molluscan Shells, Part 1: Introduction and Molecular Biology. *Physiology of Molluscs*. S. Saleuddin, Ed. Apple Academic Press, Waretown, NJ, USA.
2. Cannon, J.T., and **K.M. Kocot** 2016. Phylogenomics using transcriptome data. *Methods in Molecular Biology*. 1452(*Marine Genomics: Methods and Protocols*): 65-80.
3. **Kocot, K.M.**, J.T. Cannon, and K.M. Halanych. 2010. Elucidating animal phylogeny: advances in knowledge and forthcoming challenges. In: *Key Transitions in Metazoan Evolution*. B. Schierwater and R. DeSalle Eds. Science Publishers, Ensfield, NH, USA.

#### PEER-REVIEWED NOTES & SHORT COMMUNICATIONS

1. **Kocot, K.M.**, T. Wollesen, R.M. Varney\*, M.L. Schwartz, G. Steiner, and A. Wanninger. 2019. Complete mitochondrial genomes of two scaphopod molluscs. *Mitochondrial DNA Part B* 4(2): 3161-3162.
2. **Kocot, K.M.**, 2017. Introduction to the AMS Symposium “Phylogenomics of Mollusks,” 82nd Annual Meeting of the American Malacological Society. *American Malacological Bulletin*, 35(1): 70-72.
3. **Kocot, K.M.**, N.W. Jeffery, K. Mulligan, K.M. Halanych, and T.R. Gregory. 2015. Genome size estimates for Aplacophora, Polyplacophora and Scaphopoda: small solenogasters and sizeable scaphopods. *Journal of Molluscan Studies* 82(1): 216-219
4. **Kocot, K.M.** and K.M. Halanych. 2009. Investigation of molluscan phylogeny using nuclear protein-coding genes. *The Malacologist* 53: 18-20.
5. **Kocot, K.M.**, J.L. Baldwin, R.L. Preston, and G.W. Kidder. 2005. The efficacy of wire minnow traps in assessing populations of *Fundulus heteroclitus*. *Bulletin of the Mount Desert Island Biological Laboratory* 44:65-66.

\*Kocot lab student or postdoc

#### PRESENTATIONS

1. Sleight, V.A., M.S. Clark, and **K.M. Kocot**. 2023. The ageing genome of the Antarctic clam *Laternula elliptica* (talk). Bivalves 2023. Cambridge, UK.
2. Song, H., Y. Wang<sup>1</sup>, H. Shao, Z. Li, P. Hu, M.K. Yap-Chiongco, P. Shi, T. Zhang, C. Li, Y. Wang, P. Ma, Jakob Vinther, H. Wang, and **K.M. Kocot**<sup>^</sup>. 2023. Scaphopoda is the sister taxon to Bivalvia: evidence of ancient incomplete lineage sorting. Proceedings of the National Academy of Sciences (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
3. Olson, C.J., E.L. McLaughlin, M.C. Cobo, and K.M. Kocot. 2023. Icelandic Solenogasters: Remarkable undescribed diversity in the deep sea (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
4. Cobo, M.C., F.S. Bergmeier, E.L. McLaughlin, C.J. Olson, N.G. Roberts, W.J. Farris, M.K. Yap-Chiongco & K.M. Kocot. 2023. First records of parasitic Nematoda in Solenogastres (Mollusca, Aplacophora): Findings of the NBP23-03 “IcyInverts” Expedition to the Eastern Antarctic (poster). American Malacological Society Annual Meeting. Tuscaloosa, AL.
5. McLaughlin, E.L., M.C. Cobo, and K.M. Kocot. 2023. A monograph of Solenogastres (Mollusca, Aplacophora) from the Southern Ocean (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
6. Roberts, N.G. and K.M. Kocot. 2023. Phylogenetic Placement of Mollusca and its Evolutionary Implications (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
7. Farris, W.J., M.C. Cobo, E.L. McLaughlin, and K.M. Kocot. 2023. A striking new species of *Dondersia* (Mollusca, Aplacophora) from the Gulf of Mexico and new data from other species of the genus (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
8. Martínez-Sanjuán, J., K.M. Kocot, and Ó. García-Álvarez. 2023. Morphoanatomic study and molecular systematics of the family Pruvotinidae (Mollusca, Solenogastres) (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.
9. Cobo, M.C. and Kocot, K.M. 2023. Uncovering marine biodiversity through Natural History collections: Solenogastres (Mollusca, Aplacophora) from New Zealand as a case study (talk). American Malacological Society Annual Meeting. Tuscaloosa, AL.

10. McLaughlin, E.L., R.A. Batts, J. Goble, C. Todt, M.C. Cobo, and **K.M. Kocot**. 2023. A Global DNA Barcode Library for Solenogastres (Mollusca, Aplacophora). Society for Integrative and Comparative Biology Annual Meeting. Austin, TX.
11. Olson C.J.\*, E.L. McLaughlin\*, M.C. Cobo\*, and **K.M. Kocot**. 2023. Diversity of Solenogastres (Mollusca, Aplacophora) in Deep Icelandic Waters (poster). Society for Integrative and Comparative Biology Annual Meeting. Austin, TX.
12. Berry, H.E., T. Bushman, S. Brown, **K.M. Kocot**, J. Yonghyun, J. Kim, and L. Ciesla. 2022. Screening of Natural Compounds from Antarctic Invertebrates on Cancer Cells. UA Biological Sciences Undergrad and Grad Student Research Poster Colloquium, Tuscaloosa, AL. **Awarded 3<sup>rd</sup> place in student competition.**
13. Bergmeier, F.S.\*, M.C. Cobo\*, **K.M. Kocot**, and K.M. Jörger. 2022. Variety is the spice of life: Morphological diversity of digestive systems related to different food sources in Solenogastres (Mollusca, Aplacophora) (talk). 5th International Congress on Invertebrate Morphology, Vienna Austria.
14. Bergmeier, F.S.\*, M.K. Yap-Chiongco, B. Brenzinger, T.P. Neusser, **K.M. Kocot**, and K.M. Jörger. 2022. Life's a beach: Diversity and ecology of shallow water interstitial Solenogastres (Mollusca, Aplacophora) (talk). World Congress of Malacology, Munich (Germany).
15. Bergmeier, F.S.\*, F. Leasi, W.K. Thomas, J.L. Sevigny, C. Todt, **K.M. Kocot**, and K.M. Jörger. 2022. Solenogastres enter the stage of mitogenomics: comparative characterization of the first solenogaster mitochondrial genomes (poster). World Congress of Malacology, Munich (Germany).
16. Cobo, M.C.\* and **K.M. Kocot**. Solenogastres (Mollusca Aplacophora) biodiversity in the Clarion-Clipperton Zone (CCZ) (poster). World Congress of Malacology 2022, Munich, Germany.
17. Cobo, M.C.\* and **K.M. Kocot**. 2022. Advancing knowledge of Solenogastres (Mollusca Aplacophora) through the expeditions of the the Muséum National d'Histoire Naturelle (talk). World Congress of Malacology 2022, Munich, Germany.
18. Castro-Claros JD., M.C. Cobo\*, I.R. Salcedo, **K.M. Kocot**, A.G. Checa, and C. Salas. 2022. High Resolution Computed Tomography for the study and characterization of hard parts in Solenogastres (Mollusca, Aplacophora) (talk). 5th International Congress on Invertebrate Morphology, Vienna, Austria.
19. Bergmeier, F.S.\*, M.C. Cobo\*, **K.M. Kocot**, and K.M. Jörger. 2022. Variety is the spice of life: Morphological diversity of digestive systems related to different food sources in Solenogastres (Mollusca, Aplacophora) (talk) 5th International Congress on Invertebrate Morphology, Vienna, Austria.
20. Yap-Chiongco, M.K.\* and **K.M. Kocot**. 2022. Genomic Underpinnings of Sclerite Biomineralization in Aplacophoran Molluscs (talk). International Conference on Invertebrate Morphology, Vienna, Austria.
21. Yap-Chiongco, M.K.\* and **K.M. Kocot**. 2022. Genomic Insights from the Enigmatic Aplacophora (talk). World Congress of Malacology, Munich, Germany
22. Jörger K.M., M.K. Yap-Chiongco\*, **K.M. Kocot**, and F.S. Bergmeier\*. 2022. Aloha! First shallow-water Solenogastres from Hawai'i (poster). World Congress of Malacology. Munich, Germany
23. Yap-Chiongco, M.K.\* and **K.M. Kocot**. 2022. *De novo* genome assembly of three aplacophoran molluscs to investigate the evolution of biomineralization in Mollusca (talk). Senckenberg Biodiversity Genomics Symposium (virtual event). **M.K. Yap-Chiongco invited to speak.**
24. Yap-Chiongco, M.K.\* and K.M. Kocot. 2022. Comparative genome sequencing and assembly of three species of shell-less molluscs (Mollusca, Aplacophora) (talk and poster). Southeastern Population Ecology and Evolutionary Genetics Conference, Eatonton, GA.
25. Yap-Chiongco, M.K.\* and K.M. Kocot. 2021. Adding small taxa to fill big gaps: a phylogenomic analysis of Solenogastres (Mollusca, Aplacophora) including data from meiofaunal species (Talk). Young Systematists' Forum (virtual conference).
26. Yap-Chiongco, M.K.\* and K.M. Kocot. 2021. Comparative assembly methods to investigate biomineralization in the shell-less Aplacophora (Mollusca) (Talk). Biodiversity Genomics (virtual conference).
27. Cobo M.C.\*, M.K. Yap-Chiongco\*, and **K.M. Kocot**. 2021. Solenogastres (Mollusca, Aplacophora) Diversity in Corsica: Findings of the program "La Planète Revisitée (Talk). European Congress of Malacological Societies (virtual conference).
28. Yap-Chiongco M.K.\*, F.S. Bergmeier\*, K.M. Jörger, and **K.M. Kocot**. 2021. Small solenogastres causing big problems: molecular data from the family Meiomeniidae (Mollusca, Aplacophora) (talk). European Congress of Malacological Societies (virtual conference).
29. Bond C.E.\*, M.K. Yap-Chiongco\*<sup>†</sup>, R.E. Partain\*, M.C. Cobo\*, and **K.M. Kocot**. 2021. Uncovering the biodiversity of Gymnomeniidae (Mollusca, Aplacophora) in the Norwegian Sea (poster). European Congress of Malacological Societies (virtual conference). <sup>†</sup>presenting author.

30. Jörger, K.M., M.K. Yap-Chiongco\*, **K.M. Kocot**, and F.S. Bergmeier\*. (2022) Aloha! First shallow-water Solenogastres from Hawai'i (poster). World Congress of Malacology, Munich, Germany.
31. Cobo, M.C.\* and **K.M. Kocot**. 2021. Revolucionando la investigación sobre la biodiversidad y sistemática de los Aplacophora y formando la próxima generación de expertos (talk in Spanish). Foro Malacológico-Sociedad Española de Malacología (virtual conference).
32. Roberts, N.G.\*, G. Rouse, and **K.M. Kocot**. 2021. Resolving internal relationships among Entoprocta and the first Entoproct genome (talk). International Bryozoan Association 17th Australarwood Meeting (virtual conference).
33. McLaughlin, E.L.\*, J.M. Goble\*, R. Batts\*, C. Todt, M.C. Cobo\*, and **K.M. Kocot**. 2021. A Global DNA Barcode Library for Solenogastres (Mollusca, Aplacophora) (talk). Molluscan Forum (virtual conference).
34. Yap-Chiongco\*, M.K. and **K.M. Kocot**. 2021. Adding small taxa to fill big gaps: a phylogenomic analysis of Solenogastres (Mollusca, Aplacophora) including data from meiofaunal species (talk). Young Systematists' Forum (virtual conference).
35. Yap-Chiongco M.K.\* and **K.M. Kocot**. 2021. Comparative assembly methods to investigate biomineralization in the shell-less Aplacophora (Mollusca) (talk). Biodiversity Genomics (virtual conference).
36. Cobo, M. C.\* and **K.M. Kocot**. 2021. Biodiversity of Solenogastres (Mollusca Aplacophora) in the Clarion Clipperton Fracture Zone (poster). 16th Deep-Sea Biology Symposium (virtual conference).
37. Bond C.E.\*, M.K. Yap-Chiongco\*, R.E. Partain\*, M.C. Cobo \*, **K.M. Kocot**. 2021. Uncovering the biodiversity of Gymnomeniidae (Aplacophora, Mollusca) in the Norwegian Sea (poster). European Congress of Malacological Societies (virtual conference).
38. Cobo, M. C.\*, M.K. Yap-Chiongco\*, and **K.M. Kocot**. 2021. Solenogastres (Mollusca, Aplacophora) diversity in Corsica: findings of the program "LA PLANÈTE REVISITÉE" (talk). European Congress of Malacological Societies (virtual conference).
39. Yap-Chiongco M.K.\*, F.S. Bergemier, K.M. Jörger, and **K.M. Kocot**. 2021. Small solenogasters causing big problems: molecular data from the family Meiomeniidae (Mollusca, Aplacophora) (talk). European Congress of Malacological Societies (virtual conference).
40. Breslau, E.\* , C. Stout, **K.M. Kocot**, and A. Valdez. First phylogenomic reconstruction of the nudibranch suborder Doridina (Gastropoda, Heterobranchia), using RNA-Seq data (talk). 54th Annual Meeting of the Western Society of Malacologists (virtual conference).
41. Cobo, M. C.\* and **K.M. Kocot** 2021. Diversity of Solenogastres (Mollusca, Aplacophora) in the Caribbean Sea, what do the sclerites say? (talk). 54th Annual Meeting of the Western Society of Malacologists (virtual conference).
42. Yap-Chiongco, M.K.\* and **K.M. Kocot**. 2021. Contextualizing the evolution of molluscan shells through aplacophoran genomics (talk). 54th Annual Meeting of the Western Society of Malacologists (virtual conference).
43. Cobo, M.C.\* , E.L. McLaughlin\* and **Kocot, K.M.** 2021 New data on abyssal Solenogastres (Mollusca, Aplacophora) with the study of a collection from the Clarion-Clipperton Fracture Zone (talk). American Malacological Society Annual Meeting (virtual conference)
44. Batts, R.\* and **K.M. Kocot**. 2021. Complete mitochondrial genomes of two Amphinomida (Annelida) species. UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
45. Bond, C.E.\* and **K.M. Kocot**. 2021. Determining the biodiversity of *Wirenia* (Mollusca, Solenogastres) in the Northeastern Atlantic. UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
46. LeRoy, M.\* and **K.M. Kocot**. 2021. Biogeography of *Paramphinome jeffreysii* (Annelida, Amphinomida) in the Northeastern Atlantic Ocean. UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
47. Bond, C.E.\* and **K.M. Kocot**. 2021. Determining the biodiversity of *Wirenia* (Mollusca, Aplacophora). (poster). Society of Integrative and Comparative Biology (virtual conference)
48. Roberts, N.G.\* and **K.M. Kocot**. 2021. Developing a contaminant-aware pipeline to resolve lophotrochozoan relationships in the genomics age (poster). Society of Integrative and Comparative Biology (virtual conference)
49. Varney R.M\*., D.I. Speiser, A.C.N. Kingston, and **K.M. Kocot**. 2021. Chitons on the cutting edge: the biomineralization of iron-clad teeth in *Acanthopleura granulata* (talk). Society of Integrative and Comparative Biology (virtual conference)
50. Yap-Chiongco, M.K.\* and **K.M. Kocot**. 2021. Proteomic and developmental studies of aplacophoran sclerites to study the origins of molluscan mineralized structures (poster) Society of Integrative and Comparative Biology (virtual conference)

51. Bergmeier, F.S., M.K. Yap-Chiongco\*, M.C. Cobo-Llovo\*, N.T. Mikkelsen, K.M. Jörger and **K.M. Kocot**. 2020. AplacBase: a virtual guide to the diversity and systematics of aplacophoran molluscs (talk). World Conference on Marine Biodiversity (virtual meeting).
52. Yap-Chiongco, M.K. \*, F.S. Bergmeier, M.C. Cobo-Llovo\*, N.T. Mikkelsen, K.M. Jorger, and **K.M. Kocot**. 2020. AplacBase: a digital database for Mollusca's most neglected taxa (talk). Molluscan Forum (virtual conference)
53. **Kocot, K.M.** 2020. Biodiversity, Systematics, and Genomics of the Molluscs (talk). University of Alabama, Department of Biological Sciences, Tuscaloosa, AL. **Tenure talk.**
54. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). Deep Sea Biology Society eDSBS (held online via Zoom and Thinkific).
55. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). MeioLive! (held online via Zoom).
56. **Kocot, K.M.** and V. Gonzales. 2020. Genome Assembly and Annotation. Spiraliabase Virtual Lab Meeting (held online via Zoom).
57. Batts, E., K. Whitman, and **K.M. Kocot**. 2020. Biodiversity of Icelandic Euprosinidae (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
58. Bond, C., T. Hawkins, and **K.M. Kocot**. 2020. Determining the biodiversity around Iceland and Norway of *Wirenia argentea* (Mollusca, Solenogastres) (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
59. Pruet, C.D.\*, M.K. Yap-Chiongco\*, R.M. Varney\*, N.T. Mikkelsen, and **K.M. Kocot**. 2020. Creating an effective annotation pipeline for aculiferan mollusc genomes (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
60. Lackey, K., D.W. Lam, **K.M. Kocot**, K.K. Heinrich, and T.W. Hodges. 2020. Bama Biology Bootcamp (B3) Lessons Learned (poster). Biology Leadership Conference, Fort Myers, FL.
61. Roberts, N.G.\* and **K.M. Kocot**. 2020. Developing and Analyzing Key Genomic Resources to Resolve the Lophotrochozoan Tree of Life (poster). Society of Systematic Biologists, Gainesville, FL.
62. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). Society of Integrative and Comparative Biology, Austin, TX.
63. McCutcheon, M.G.\* and **K.M. Kocot**. 2020. Uncovering the Biodiversity of New Zealand Aplacophora (poster). Society of Integrative and Comparative Biology, Austin, TX.
64. Varney, R.M.\*, D.I. Speiser, C. McDougall, B.M. Degnan, and **K.M. Kocot**. 2020. The genome of the chiton *Acanthopleura granulata*: an Aculiferan perspective on molluscan mineralization (talk). Society for Integrative and Comparative Biology, Austin TX.
65. Varney, R.M.\*, A.C.N. Kingston, **K.M. Kocot**, and D.I. Speiser. 2020. Localized physiological changes regulate the biomineralization of magnetite in the radula of the chiton *Acanthopleura granulata* (poster). Society for Integrative and Comparative Biology, Austin TX.
66. Yap-Chiongco, M.K. \*, R.M. Varney\*, and **K.M. Kocot**. 2020. What the shell-less aplacophorans can tell us about molluscan biomineralization (talk). Society for Integrative and Comparative Biology, Austin TX.
67. Waits, D.S., R. Ribeiro, **K.M. Kocot**, S.A. Bullard, and K.M. Halanych. 2020. You Aren't What You Eat: The Impact of Sequence Contamination on Phylogenomics of Blood Flukes (Platyhelminthes; Schistosomatoidea) (poster). Society for Integrative and Comparative Biology, Austin TX.
68. Cannon, J.T., **K.M. Kocot**, D.J. Eernisse, D.I. Speiser, and T.H. Oakley. 2019. Target capture phylogenomics of Polyplacophora and the origins of shell eyes (poster). Society for Integrative and Comparative Biology, Austin TX.
69. **Kocot, K.M.** 2020. Comparative, evolutionary, and phylogenomics of the molluscs and friends (talk). Spiralian White Paper Meeting, St. Augustine, FL. **Invited talk.**
70. Varney, R.M.\*, A.C.N. Kingston, **K.M. Kocot**, and D.I. Speiser. 2019. Localized physiological changes regulate the biomineralization of magnetite in the radula of the chiton *Acanthopleura granulata* (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.
71. Yap-Chiongco, M.K. \*, R.M. Varney\*, and **K.M. Kocot**. 2019. The Use of Aplacophoran Comparative and Evolutionary Genomics to Study Molluscan Biomineralization (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.
72. McCutcheon, M.G.\* and **K.M. Kocot**. 2019. A closer look at the aplacophoran biodiversity in New Zealand (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.



73. Varney, R.M.\*, M.K. Yap-Chiongco\*, N.T. Mikkelsen, S. Pirro, D.I. Speiser, and **K.M. Kocot**. 2019. A cost-effective strategy to obtain highly contiguous aculiferan mollusc genomes enables broader investigations of an understudied group (poster). Pearls of Wisdom Royal Society Molluscan Genomics Meeting. Milton Keynes, United Kingdom.
74. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2019. The Use of Aplacophoran Comparative and Evolutionary Genomics to Study Molluscan Biomineralization (poster). International Seminar on Biodiversity and Evolution of Molluscs, Vladivostok, Russia.
75. Cannon, J.T., **K.M. Kocot**, D.J. Eernisse, D.I. Speiser, and T.H. Oakley. 2019. Target capture phylogenomics of Polyplacophora (poster). World Congress of Malacology, Pacific Grove, CA.
76. **Kocot, K.M.** 2019. Revolutionizing Biodiversity and Systematics Research on Aplacophora and Training the Next Generation of Malacologists (talk). World Congress of Malacology, Pacific Grove, CA.
77. McCutcheon, M.G.\* and **K.M. Kocot**. 2019. A closer look at the aplacophoran biodiversity in New Zealand (poster). World Congress of Malacology, Pacific Grove, CA.
78. Varney, R.M., D.I. Speiser, and **K.M. Kocot**. 2019. The genome of the chiton *Acanthopleura granulata*: an aculiferan perspective of molluscan biomineralization (talk). World Congress of Malacology, Pacific Grove, CA.
79. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2019. Draft Genome of *Neomenia megatrapezata* (Solenogastres) as a Tool to Study Aculiferan Sclerite Biomineralization (poster). World Congress of Malacology, Pacific Grove, CA.
80. **Kocot, K.M.** Biodiversity, Systematics, and Genomics of the Molluscs. University of Vienna, Vienna, Austria. **Invited Seminar.**
81. **Kocot, K.M.** Biodiversity, Systematics, and Genomics of the Molluscs. Oregon Institute of Marine Biology, Charleston, OR. **Invited Seminar.**
82. **Kocot, K.M.** Biodiversity & Systematics of the Aplacophoran Molluscs. 2019. Southern California Association of Marine Invertebrate Taxonomists (talk). Los Angeles, CA. **Invited remote seminar (via Skype).**
83. **Kocot, K.M.** 2019. Biodiversity, Systematics, and Genomics of the Aculiferan Molluscs (talk). Lehigh University Department of Biological Sciences, Bethlehem, PA. **Invited seminar.**
84. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
85. Partain, R.E.\* and **K.M. Kocot**. 2019. Using microscopy and histology to describe a novel species of *Wirenia* (Mollusca, Aplacophora) from New Zealand. UA Undergraduate Research, Scholarship, and Creative Activity Conference, Tuscaloosa, AL.
86. Pruett, C.\*, C.L. Atkinson, and **K.M. Kocot**. 2019. Discovery of a Mobile Basin population of the critically endangered Fat Threeridge Mussel (*Amblema neislerii*). UA Undergraduate Research and Scholarly Creative Activity Conference, Tuscaloosa, AL.
87. **Kocot, K.M.** 2019. Biodiversity, Systematics, and Genomics of the Aculiferan Molluscs (talk). Dauphin Island Sea Lab, Dauphin Island, AL. **Invited seminar.**
88. Varney, R.M.\*, Speiser, D.I., and **Kocot, K.M.** 2019. The genome of the chiton *Acanthopleura granulata*: a model system for studying molluscan evolution (poster). Society of Integrative and Comparative Biology annual meeting, Tampa, FL.
89. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). Society of Integrative and Comparative Biology annual meeting, Tampa, FL.
90. Varney, R.M.\*, Speiser, D.I., and **Kocot, K.M.** 2019. The genome of the chiton *Acanthopleura granulata*: a model system for studying molluscan evolution (poster). Global Invertebrate Genomics Alliance III, Curacao.
91. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). Global Invertebrate Genomics Alliance III, Curacao.
92. Thálen, F.\* and **K.M. Kocot**. 2019. PhyloPyPruner: Tree-based Orthology Inference with Methods for Resolving Contamination-like Issues. Global Invertebrate Genomics Alliance III, Curacao.
93. **Kocot, K.M.** 2018. Big Questions About Little Molluscs: Biodiversity, Systematics, & Genomics of Aplacophora (oral). Smithsonian Tropical Research Institute, Bocas del toro, Panama.
94. **Kocot, K.M.** 2018. Big questions about little molluscs (talk). IceAGE Workshop, Sandgerði, Iceland.
95. **Kocot, K.M.** 2018. Big questions about little molluscs (talk). University of Washington Friday Harbor Laboratories, Friday Harbor, WA. **Invited seminar.**
96. Goble, J.\* and **K.M. Kocot**. 2018. The Biodiversity of Deep-Sea Icelandic Aplacophoran Molluscs (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.

97. Hawkins, T.\* and **K.M. Kocot**. 2018. Biodiversity and Population Genetics of *Wirenia argentea* (Mollusca, Solenogastres) (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
98. Kantzler, E.\* and **K.M. Kocot**. 2018. Biodiversity and mitogenomics of deep-sea Euphrosinidae (Annelida) (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
99. Pabst, E.\* and **K.M. Kocot**. 2018. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
100. Pruett, C.\* and **K.M. Kocot**. 2018. Extracting Genetic Information from Alabama Mollusks (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
101. **Kocot, K.M.**, M.G. Tassia, K.M. Halanych, and B.J. Swalla, 2018. Phylogenomics offers resolution of major tunicate relationships (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
102. Varney, R.M.\*, D. Speiser, and **K.M. Kocot**. 2018. The genome of the chiton *Acathopleura granulata*: preliminary work toward understanding biomineralization of teeth as tough as tank armor (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
103. Vaccaro, K.M., Kocot, K.M., and Janosik, A.M. 2018. Sexual dimorphism in *Coronis scolopendra* (Stomatopoda): do males and females see the world differently? (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
104. **Kocot, K.M.** 2017. Advances and unanswered questions on the phylogeny, molecular evolution, and biodiversity of Mollusca. Louisiana State University Department of Biological Sciences. Baton Rouge, LA. **Invited seminar.**
105. **Kocot, K.M.** 2017. Big questions about little invertebrates (talk). LANGEBIO, Iraputo, Guanajuato, Mexico. **Invited seminar.**
106. **Kocot, K.M.**, R.M. Varney, and D. Speiser. 2017. Developing high-quality genomic resources for understudied classes of Mollusca (poster). Global Biodiversity Genomics Conference. Washington, D.C.
107. **Kocot, K.M.** 2017. Deep Animal Phylogeny with Consideration of Systematic Error. Texas A&M University Galveston Department of Biological Sciences, Galveston, TX. **Invited seminar.**
108. **Kocot, K.M.** 2017. Aplacophora. Benthic Invertebrate Taxonomy, Metagenomics, and Bioinformatics (BITMaB) Workshop. Corpus Christi, TX.
109. **Kocot, K.M.** 2017. Phylogenomics of Lophotrochozoa with Consideration of Systematic Error. Society of Integrative and Comparative Biology annual meeting. New Orleans, LA.
110. **Kocot, K.M.** 2016. Monoplacophoran genome sheds light on relationships among shelled molluscs. World Congress of Malacology. Penang, Malaysia.
111. **Kocot, K.M.** 2016. Monoplacophoran genome sheds light on relationships among shelled molluscs. American Malacological Society. Ensenada, Mexico.
112. **Kocot, K.M.** 2016. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of South Carolina Department of Biological Sciences, Columbia, SC. **Invited seminar.**
113. **Kocot, K.M.** 2016. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of West Florida Department of Biological Sciences, Pensacola, FL. **Invited seminar.**
114. **Kocot, K.M.**, T.H. Struck, J. Merkel, D.S. Waits, C. Todt, P.M. Brannock, D.A. Weese, J.T. Cannon, L.L. Moroz, B. Lieb, and K.M. Halanych. 2015. Phylogenomics sheds light on the most diverse clade of marine invertebrates (Lophotrochozoa). University of Queensland Centre for Marine Science Talk Fest, St. Lucia, Queensland, Australia. **Invited seminar.**
115. **Kocot, K.M.** 2015. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of Colorado Boulder Department of Biological Sciences, Boulder, CO. **Invited seminar.**
116. **Kocot, K.M.** 2015. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of Alabama Department of Biological Sciences, Tuscaloosa, AL. **Invited seminar.**
117. **K.M. Kocot**. 2014. Deep metazoan phylogeny and the utility of taxon-specific ortholog sets (talk). Frontiers in Phylogenetics Symposium. Smithsonian Institution. Washington, D.C. **Invited seminar.**
118. Bond J.E., N.L. Garrison, C.A. Hamilton, R.L. Godwin, M. Hedin, I. Agnarsson, **K.M. Kocot**, J. Ledford, and C. Griswold. 2014. Spider phylogenomics: reevaluating the history of Earth's most diverse predator lineage and the origin of the orb web (talk). European Congress of Arachnology. Torino, Italy.
119. **Kocot, K.M.**, C. McDougall, J.A. Shaw, C. Todt, K.M. Halanych, and B.M. Degnan. 2014. New insights into molluscan biomineralization through studies of aculiferans (poster). International Congress on Invertebrate Morphology. Berlin, Germany.

120. Twigg, R.S., **K.M. Kocot**, P.M. Brannock, and K.M. Halanych. 2014. Phylogenetic classification of octopus species from Antarctica (poster). Alabama Academy of Sciences Meeting. Auburn, Alabama.
121. **Kocot, K.M.** 2013. New insights into molluscan evolution through phylogenomics. Illinois State University. **Invited.**
122. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2013. Phylogenomics reveals evolutionary relationships within Aplacophora (Mollusca, Aculifera) (talk) Evolution, Snowbird, UT, USA.
123. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2013. Preliminary Molecular Phylogeny of Aplacophora Based on Transcriptome Data (talk) World Congress of Malacology, Ponta Delgada, Portugal. **Invited.**
124. Swore, J.J., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, T. Norekian, and L.L. Moroz. 2013. On the origins of glutamatergic signaling: Insights from the ctenophore genome (*Pleurobrachia bachei*) (talk) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
125. Bruders, R., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, T. Norekian, and L.L. Moroz. 2013. Gone with the Wnts: Genomic insights into Wnt signaling in the ctenophore, *Pleurobrachia bachei* (talk) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
126. Churches, N., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, and L.L. Moroz. 2013. Collagens in the ctenophore *Pleurobrachia bachei*: Remarkable expansion and diversity of genes controlling the extracellular matrix in basal metazoans (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
127. Dabe, E.C., A.B. Kohn, Y. Bobkova, **K.M. Kocot**, M.R. Citarella, C.J. Bostwick, G.C. Winters, B.J. Swalla, and L.L. Moroz. 2013. Epigenomic Signatures in Basal Metazoans: DNA Methyltransferase in *Pleurobrachia bachei* (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
128. Winters, G.C., A.B. Kohn, M.R. Citarella, C.J. Bostwick, E.C. Dabe, Y. Bobkova, **K.M. Kocot**, B.J. Swalla, and L.L. Moroz. 2013. Conserved expression patterns of Nanos in the ctenophore *Pleurobrachia bachei*: Implications for germ line specification in basal metazoans (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
129. **Kocot, K.M.**, M.R. Citarella, L.L. Moroz, and K.M. Halanych. 2013. PhyloTreePruner: a phylogenetic tree-based approach for selection of orthologous sequences for phylogenomics (talk) Hennig XXXI, Riverside, California, USA. **Invited seminar.**
130. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2012. Preliminary molecular phylogeny of Solenogastres (Mollusca: Aplacophora) (talk) Bergen Marine Invertebrate Symposium, Bergen, Norway.
131. **Kocot, K.M.** 2012. New insights into molluscan evolution through phylogenomics (talk) Phylogenetic Systematics and Evolution Research Group Seminar Series. Bergen University, Bergen, Norway.
132. **Kocot, K.M.** 2012. IceAGE: Icelandic Animals – Genetics and Ecology (talk) AU Marine Biology Club invited seminar.
133. Moroz, L.L., A.B. Kohn, M.R. Citarella, M. Grigorenko, **K.M. Kocot**, K.M. Halanych, and E. Rogaev. 2012. The genome of the ctenophore *Pleurobrachia bachei*: Molecular insights into independent origins of nervous systems (talk) Society of Integrative and Comparative Biology. Charleston, SC.
134. Curtis, N.E., X. Fang, X. Jiang, J.A. Schwartz, **K.M. Kocot**, and S.K. Pierce. 2012. Algal, nuclear-encoded gene sequences are present in the transcriptome of the kleptoplastic sea slug, *Elysia chlorotica* – Further evidence for horizontal gene transfer (talk) Society of Integrative and Comparative Biology. Charleston, SC.
135. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomics reveals deep molluscan relationships (talk) American Malacological Society, Pittsburgh, PA. **Invited talk for keynote symposium.**
136. **Kocot, K.M.**, C. Todt, C. Schander, A.H. Scheltema, and K.M. Halanych. 2011. New insights into early molluscan evolution from ancestral state reconstruction (poster) International Congress on Invertebrate Morphology. Cambridge, MA.
137. Todt, C. and **K.M. Kocot**. 2011. Meiofaunal solenogasters and their “giant” relatives (talk) International Congress on Invertebrate Morphology. Cambridge, MA.
138. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S. R. Santos, L. L. Moroz, B. Lieb, and K. M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships (talk) Southeastern Ecology and Evolution Conference. Auburn, AL.
139. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships (poster) Auburn University Graduate Scholars Forum. Auburn, AL.
140. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships

(talk) Society of Integrative and Comparative Biology (SICB). Salt Lake City, UT. **Best student presentation awarded.**

141. Meyer, A., **K.M. Kocot**, K.M. Halanych, and B. Lieb. 2010. Pros and cons of gene selection in phylogenomic inferences by means of topological information (talk). Systematics in the Age of Genomics. Hamburg, Germany.
142. **Kocot, K.M.** and K.M. Halanych. 2009. Molluscan phylogeny investigated using three nuclear protein-coding genes (talk). Southeastern Evolution and Ecology Conference (SEEC). Gainesville, FL.
143. **Kocot, K.M.** and K.M. Halanych. 2009. Molluscan phylogeny investigated using three nuclear protein-coding genes (talk). Society of Integrative and Comparative Biology (SICB). Boston, MA.
144. **Kocot, K.M.** and S.R. Santos. 2008. Secondary structural modeling of an RNA spacer in *Pfieseria*-like dinoflagellates (talk). AU Cellular and Molecular Biosciences Seminar Series. Auburn, AL.
145. **Kocot, K.M.** and S.R. Santos. 2008. Secondary structural modeling of an RNA spacer in *Pfieseria*-like dinoflagellates (talk). Southeastern Evolution and Ecology Conference (SEEC). Tallahassee, FL.

\*Kocot lab student or postdoc

^Presenting author

## TEACHING EXPERIENCE

### *Course Instructor*

Biodiversity and Integrative Taxonomy of the Invertebrates (FHL): summer 2022

Invertebrate Zoology (UA): fall 2016, spring 2018, 2019, 2021, 2022

Marine Invertebrate Zoology (FHL): summer 2016, summer 2018

Principles of Biology II (UA): spring 2017, fall 2017, 2019, spring 2020, fall 2021

Evolutionary Genomics Seminar (UA): fall 2017

Principles of Systematics (UA): spring 2017, spring 2021, fall 2023

Systematics Lunch Group (SLuG; UA): Each fall and spring semester since spring 2018.

### *Workshop Instructor*

Dauphin Island Sea Lab Meiofauna Diversity and Taxonomy Workshop (SMS): summer 2023

Smithsonian Marine Station Meiofauna Diversity and Taxonomy Workshop (SMS): summer 2022

Phylogenomics (workshop) (AU): fall 2012

### *Teaching Assistant*

Invertebrate Biodiversity (AU): fall 2008, spring 2009, spring 2010, spring 2012

Invertebrate Zoology (ISU): spring 2005, spring 2006, spring 2007

Evolution and Development of the Metazoans (FHL): summer 2011

Marine Genomics (FHL): spring 2010

Bioinformatics of Biodiversity workshop (AU): spring 2011

Vertebrate Biodiversity (AU): summer 2009

Genetics (AU): fall 2008, fall 2009

Organismal Biology (AU): summer 2020

Principles of Biology (AU): fall 2011

Entomology (ISU): fall 2007

Costa Rican Rainforest Ecology (ISU): fall 2007

Biological Diversity (ISU): spring 2007

### *Guest Lecturer*

Evolution for Everyone (UA). Topic: Phylogenetics. Each spring since 2019.

Honors Principles of Biology II (UA). Topic: Invertebrate Biodiversity. Each spring since 2016.

Biology and Taxonomy of the Nemerteans (STRI). Topic: Meiofauna. Summer 2018

Comparative Invertebrate Embryology (FHL). Topic: Phylogenetics. Summer 2014

Marine Genomics Apprenticeship (FHL). Topic: Phylogenetics. Spring 2013

Invertebrate Biodiversity (AU). Topic: Mollusca. Fall 2013

Marine Genomics Apprenticeship (FHL). Topic: Phylogenetics: Summer 2012

Invertebrate Biodiversity (AU) Topic: Mollusca. Spring 2010

Invertebrate Zoology (ISU) Topic: Annelida. Spring 2007

## **Mentoring**

### ***Undergraduate Researchers***

- 2016-present Mentor to 5-9 undergraduate researchers per semester, most of whom conduct research in the lab for >2 years and present their research at local, regional, or national conferences.
- 2013 Mentored one undergraduate student in the laboratory (AU).
- 2011 Mentored two undergraduate students in the laboratory (AU).

### ***M.S. Students***

- 8/2018 – 6/2020 Maddie McCutcheon. M.S. in Biological Sciences. Thesis title: Aplacophoran mollusc biodiversity, systematics, and taxonomy. Committee: Drs. Kevin Kocot (chair), Jeff Lozier, Jane Rasco, and Flavio Dias Passos (external).
- 4/2018 – 12/2018 Felix Thalén. M.S. in Bioinformatics at Lund University, Sweden. Thesis title: PhyloPyPruner: Tree-based Orthology Inference for Phylogenomics with New Methods for Identifying and Excluding Contamination. Supervisor: Dr. Kevin Kocot. Examiner: Dr. Björn Canbäck. Opponent: Dr. Staffan Bensch.

### ***Ph.D. Students***

- 8/2021 – present Chandler Olson. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Michael McKain, Jeff Lozier, Phil Harris, Ben Titus, and Ken Hoadley.
- 8/2020 – present Jesús Martínez Sanjuán. Ph.D. student in Biodiversity and Conservation of the Natural Environment (program title translated from Spanish) at The University of Santiago de Compostela, Spain. Thesis Directors: Drs. Óscar García Álvarez and Kevin Kocot. Thesis Tutor: M. Celia Besteiro.
- 8/2020 – present Emily McLaughlin. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Phil Harris, Ken Hoadley, Julie Olson, and Ashleigh Smythe (external).
- 8/2019 – present Nickellaus Roberts. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Phil Harris, Jeff Lozier, Michael McKain, and Jordi Paps (external).
- 8/2018 – present Meghan Yap-Chiongco. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Michael McKain, Jane Rasco, John Yoder, and Andreas Hejnol (external).
- 8/2022 – 5/2023 Wesley Neely. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Jeff Lozier, Ryan Earley, Anna Savage (external), and Gui Becker (external).
- 1/2017 – 5/2021 Rebecca Varney. Ph.D. student in Biological Sciences. Committee: Drs. Kevin Kocot (chair), Matt Jenny, Michael McKain, Laura Reed, and Dan Speiser (external).

### ***Postdoctoral Researchers***

- 6/2022 – 12/2022 Franziska S. Bergmeier. Genome skimming and higher-level phylogenetics of Solenogastres.
- 1/2021 – 8/2023 Maria del Carmen Cobo Llovo. Research focus: Biodiversity and systematics of the aplacophoran molluscs.

## **RESEARCH GRANTS >\$20K**

- 2023 NSF DEB PurSUiT Grant #2321306 (PI: Kocot share \$840,771)
- 2023 Louisiana Department of Wildlife and Fisheries (PI; shared total budget \$198,278)
- 2022 NSF OPP ANT-LIA Grant #2138994 (PI; Kocot share \$413,773)
- 2022 ALCoE Grant (Co-PI; Kocot share \$122,626)
- 2020 NSF Thematic Collections Network (TCN) Grant #2001601 (PI; Kocot share \$33,235)
- 2019 Louisiana Department of Wildlife and Fisheries (Co-PI; shared total budget \$50,572)
- 2019 NSF DEB CAREER Award #1846174 (PI; total budget \$1,208,255)
- 2018 Texas Parks and Wildlife Section 6 Research Grant (Co-PI; shared total budget of \$499,365)
- 2015 Australian Research Council DECRA (PI; \$400,809; awarded but declined)
- 2013 NSF Postdoctoral Research Fellowship in Biology (\$139,000)
- 2013 NASA Exobiology and Evolutionary Biology (Co-PI; shared total budget of \$810,829)

## **SMALL GRANTS**

- 2021 UA CARSCA Grant (\$5,466)
- 2018 UA CARSCA Research Grant (\$3,166)

- 2016 UA Research Grants Committee Level 1 Research Grant (\$5,970)
- 2012 Malacological Society of London Student Research Grant (\$940)
- 2012 NSF Doctoral Dissertation Improvement Grant (\$15,000)
- 2008 AU Graduate School Student Research Grant (\$1,000)
- 2008 American Malacological Society Melbourne R. Carriker Student Research Award (\$400)
- 2008 Malacological Society of London Student Research Grant (\$1,578)

**AWARDS, FELLOWSHIPS, TRAVEL GRANTS, TEACHING GRANTS, HONORARIA, ETC.**

- 2021 UA President's Faculty Research Award (\$1,000)
- 2018 American Microscopical Society Buchsbaum Prize for Excellence in Photomicrography (\$100)
- 2016 UA College of Arts and Sciences Teaching Grant (\$2,000)
- 2013 AU Graduate School Distinguished Dissertation Award (\$500)
- 2012 Willi Hennig Society Marie Stopes Student Travel Award (\$500)
- 2012 AU Harry Merriwether Fellowship (\$2,000)
- 2012 AU College of Science and Mathematics Dean's Research Award (\$250)
- 2011 American Malacological Society Keynote Symposium Honorarium (\$500)
- 2011 AU Graduate Scholars Forum Finalist
- 2011 AU DBS Kenneth Ottis Distinguished Graduate Fellowship
- 2011 SICB DSEB Best Platform Presentation (\$150)
- 2007 FHL Invertebrate Ball "Best Microscopic Invertebrate" costume award
- 2007-2008 AU Cellular and Molecular Biosciences Fellowship
- 2007 ISU Rilett Scholarship Award
- 2006 ISU Dept. of Biological Sciences Future Alumni Leader
- 2005 ISU Dept. of Biological Sciences Jack A. Ward Service Award

**RESEARCH EXPEDITIONS**

- 2023 Icy Inverts (NBP23-03). *RVIB Nathaniel B. Palmer*. 56 days. Eastern Antarctic.
- 2022 BOMAN II. Bioblitz to sample marine invertebrate biodiversity. 17 days. Salalah, Oman
- 2020 Icy Inverts (NBP20-10). *RVIB Nathaniel B. Palmer*. 84 days. Weddell Sea and Antarctic Peninsula.
- 2016 UNOLS Chief Scientist Training Cruise. *R/V Atlantis*. 7 days. Atlantic Ocean. Included a dive in HOV *Alvin*.
- 2015-2016 FROSN. *R/V Polarstern*. 75 days. South Africa, Weddell Sea, Antarctic Peninsula, and Chile.
- 2013 Icy Inverts. *RV Lawrence M. Gould*. 30 days. Antarctic Peninsula and Weddell Sea.
- 2013 Bone and Wood Landers (BoWLs). *R/V Oceanus*. 14 days. Pacific Northwest.
- 2012-2013 Icy Inverts. *RVIB Nathaniel B. Palmer*. 42 days. Bellinghausen/Amundsen/Ross Seas, Antarctica.
- 2011 IceAGE. *RV Meteor*. 32 days. Icelandic and Greenlandic waters.
- 2011 WormNet II. *RV Cape Hatteras*. 7 days. Western Atlantic.
- 2009 BIOSKAG II. *RV Hakon Mosby*. 14 days. Skagerrak Strait.
- 2009 Siboglinidae Symbiosis Cruise. *R/V Seward Johnson*. 5 days. Gulf of Mexico.

**RESEARCH EXCHANGES**

- 2012 Visiting Scientist. Bergen University, Bergen, Norway. PI: Dr. Christiane Todt.
- 2009 Visiting Scientist. Whitney Lab, St. Augustine, FL. PI: Dr. Leonid Moroz.
- 2008 Visiting Scientist. Bergen University, Bergen, Norway. PI: Dr. Christoffer Schander.

**WORK EXPERIENCE**

- 2004-2007 Zebrafish husbandry laboratory technician (part-time)
- 2003-2007 ISU Dept. of Biological Science marine aquarium technician (volunteer)
- 2004 Illinois Department of Natural Resources whitetail deer chronic wasting disease checker coordinator

**ADVANCED COURSEWORK, WORKSHOPS, AND OTHER TRAINING**

- 2018 Smithsonian Tropical Research Institute Taxonomy and Biology of Nemertean Workshop
- 2017 Marshall Kaplan NSF CAREER Grant Proposal Workshop
- 2017 Benthic Invertebrate Taxonomy, Metagenomics, and Bioinformatics (BITMaB)

2016	University of Alabama Active Learning Workshop
2015	MixOmics statistical genomics workshop
2010	Smithsonian Tropical Research Institute Meiofauna Diversity and Taxonomy Workshop
2010	Blast2GO Workshop
2009	Bodega Marine Lab Applied Phylogenetics Workshop
2008	Friday Harbor Labs Evolution and Development of the Metazoans
2007	Friday Harbor Labs Marine Invertebrate Zoology

## SELECT SERVICE ACTIVITIES

### ***Ongoing***

2022-present	President of the American Malacological Society
2022-present	Earth BioGenome Sample Collection and Processing Subcommittee
2021-present	FHL Illg Lecture Committee Chair
2019-present	Faculty adviser for UA Delta Lambda Pi (UA gay men's fraternity)
2019-present	Member of Executive Council of Unitas Malacologica
2019-present	Alabama Museum of Natural History Council of Curators Appointment Committee member
2017-present	UA Department of Biological Sciences Webmaster
2016-present	Steering committee member for UA Evolutionary Working Group (EvoWoG; UA group organizing the Alabama Lectures on Life's Evolution seminar series)

### ***Complete***

2018-2022	UA Department of Biological Sciences Graduate Admissions and Recruiting Committee member
2021-2022	President-elect of the American Malacological Society
2020-2021	Vice President of the American Malacological Society
2020, 2021	SICB Division of Phylogenetics and Comparative Biology "Ask an Expert Booth"
2020	Guest lecture to Dr. Kathleen Morrow's Biology class at Thomas Jefferson High School for Science and Technology, Falls Church, VA
2019-2023	Secretary of the Global Invertebrate Genomics Alliance
2018-2022	UA Department of Biological Sciences Communications Committee member
2018-2021	Member at Large on Executive Committee of American Microscopical Society
2018-2020	President of Capstone Alliance (UA LGBTQA+ faculty & staff advocacy organization)
2019	Alabama Museum of Natural History Sheldon Endowed Scholarship Award Committee
2018	Co-organizer of the third Global Invertebrate Genomics Alliance (GIGA) meeting in Curaçao
2018	NASA Exobiology grant review panelist in San Diego, CA
2018	Organized "From small and squishy to big and armored: Genomic, ecological and paleontological insights into the early evolution of animals" symposium at the SICB meeting in San Francisco, CA in 2018
2017-2021	Treasurer of Capstone Alliance (UA LGBTQA+ faculty & staff advocacy organization)
2017, 2018	Guest lectures to the Birmingham Paleontological Society, Birmingham, AL
2016-2023	Associate Editor for <i>Marine Biodiversity</i>
2016	Organized "Phylogenomics of Mollusca" symposium at the American Malacological Society meeting in Ensenada, Mexico in 2016.
2013	Guest editor for IceAGE special issue of <i>Polish Polar Research</i>
2013	Chaired "Who are the Aculifera?" symposium at the World Congress of Malacology
2011	Helped organize the Southeastern Ecology and Evolution Conference at AU

I have served on multiple job search committees at UA, which successfully hired Dr. Michael McKain (Plant Systematics; 2017), Drs. Tyler Hodges, Andy Chaudhuri, and Kaleb Heinrich (NTRC; 2018), Dr. Kenneth Hoadley (Marine Biology I; 2019), Dr. Adiel Klompmaker (ALMNH Paleontologist; 2019), Dr. Ben Titus (Marine Biology; 2020), and Ms. Brooke Bogan (ALMNH Collections Manager; 2022).

I review at least 15 manuscripts or grant proposals per year. To date, I have served as a reviewer for: *American Malacological Bulletin*, *BMC Biology*, *BMC Evolutionary Biology*, *Biology Methods and Protocols*, *Biological Bulletin*, *Deep Sea Research*, *Biota Neotropica*, *F1000 Research*, *Frontiers in Zoology*, *Genome*, *Genome Biology and Evolution*, The German Science Foundation, *GigaScience*, *Invertebrate Systematics*, *The Journal of Natural History*, The Leverhulme Trust, *Malacologia*, *Marine Biodiversity*, *Marine Biology*, *Marine Biology Research*,

*Marine Genomics, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, NASA, National Fish and Wildlife Foundation, National Science Foundation, Organisms Diversity and Evolution, PloS One, and Polish Polar Research, Polish Science Foundation, Scientific Reports, Society of Systematic Biologists, Systematic Biology, The University of West Florida, and ZooKeys.*

I also routinely volunteer to judge student presentations for competitions at meetings of the Society of Integrative and Comparative Biology, the American Malacological Society, and the World Congress of Malacology.

#### **OUTREACH**

2019-2020	Volunteered at UA Department of Biological Sciences annual Ar-BOO-return event.
2018-present	Hosted two high school students in my lab each year to learn what a day in the life of a scientist is through the “Scientist for a Day” program (this program did not run in 2020 or 2021).
2017	Helped organize UA BSC “Bama Biology Bootcamp” (B <sup>3</sup> ; UA BSC intensive college preparation program) and made the B <sup>3</sup> website.
2017-present	Volunteered at UA Department of Biological Sciences Homecoming tent outreach event
2017	Volunteered at Science Olympiad.
2014-2015	Speed Dating with a Scientist (outreach event to help high school students interested in science and mathematics choose a University plan of study).
2009-2013	Presented at AU Explore (outreach event intended to interest area grade-school students in pursuing higher education).

I also regularly present to local middle schools about our research and give guest talks and museum tours to the UA Marine Biology and Genetics clubs.

#### **MEMBERSHIPS**

American Malacological Society  
American Microscopical Society  
Global Invertebrate Genomics Alliance  
Society for Integrative and Comparative Biology  
Unitas Malacologica