

## DONALD C. BEHRINGER

School of Forest, Fisheries, and Geomatics Sciences  
Emerging Pathogens Institute  
University of Florida  
**behringerlab.com**

### EDUCATION

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- 2003 **Ph.D.**, Ecological Sciences, Department of Biological Sciences, Old Dominion University, Norfolk, Virginia.
- 1991 **B.S.**, Zoology, University of Florida, Gainesville, Florida.

### APPOINTMENTS

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- 2020 – present **Professor**, School of Forest, Fisheries, and Geomatics Sciences (name change March 2021), Program in Fisheries and Aquatic Sciences, University of Florida. Joint appointment with the UF Emerging Pathogens Institute.
- 2014 – 2020 **Associate Professor**, School of Forest Resources and Conservation, Program in Fisheries and Aquatic Sciences, University of Florida. Joint appointment with the UF Emerging Pathogens Institute.
- 2010 – 2014 **Assistant Professor**, School of Forest Resources and Conservation, Program in Fisheries and Aquatic Sciences, University of Florida. Joint appointment with the UF Emerging Pathogens Institute.
- 2006 – 2010 **Research Assistant Professor**, School of Forest Resources and Conservation, Program in Fisheries and Aquatic Sciences, University of Florida.
- 2004 – 2006 **Research Associate**, Department of Biological Sciences, Old Dominion University, Norfolk, Virginia.
- 2003 – 2004 **Postdoctoral Associate**, Department of Biological Sciences, Old Dominion University, Norfolk, Virginia.
- Affiliations:* UF School of Natural Resources and the Environment, UF Center for Smell and Taste, UF Center for Latin American Studies, UF Water Institute.

### HONORS AND AWARDS (2015 – PRESENT)

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- 2020 – 2023 University of Florida Research Foundation Professor Award
- 2019 Anderson Scholar Faculty Honoree – UF College of Liberal Arts and Sciences
- 2019 – 2022 University Term Professorship Award, University of Florida
- 2018 Anderson Scholar Faculty Honoree – UF College of Liberal Arts and Sciences
- 2018 International Educator of the Year, 2018 IFAS nominee
- 2018 Global Fellow Award, University of Florida IFAS
- 2016 US-UK Fulbright Class Ambassador
- 2015 – 2016 Fulbright U.S. Scholar Award, University of Exeter, United Kingdom

## PEER-REVIEWED RESEARCH PUBLICATIONS

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### *Books Edited*

**Behringer, D.C.**, Silliman, B.R., and K.D. Lafferty (eds). 2020. *Marine Disease Ecology*. Oxford University Press. Oxford, UK. DOI: 10.1093/oso/9780198821632.003.0001.

### *Peer-reviewed Book Chapters*

**Behringer, D.C.**, Wood, C.L., Krkosek, M., and D. Bushek. 2020. Chapter 10: Disease in fisheries and aquaculture. In: Behringer, D.C., Silliman, B.R., and K.D. Lafferty (eds), *Marine Disease Ecology*. Oxford University Press. Oxford, UK. DOI: 10.1093/oso/9780198821632.003.0010.

Bojko, J., Lipp, E.K., Ford, A.T., and **D.C. Behringer**. 2020. Chapter 6: Pollution can drive marine diseases. In: Behringer, D.C., Silliman, B.R., and K.D. Lafferty (eds). *Marine Disease Ecology*. Oxford University Press. Oxford, UK. DOI: 10.1093/oso/9780198821632.003.0006.

**Behringer, D.C.**, Butler IV, M.J., and J.D. Shields. 2012. Juvenile Caribbean spiny lobsters are plagued by the lethal viral pathogen PaV1. Pages 387-388 in Kruczynski, W.L. and P.J. Fletcher (eds), *Tropical Connections: South Florida's Marine Environment*. IAN Press, University of Maryland Center for Environmental Science, Cambridge, Maryland.

### *Peer-reviewed Scientific Journal Articles*

#### Published

62. Bojko, J., Burgess, A.L., Allain, T.W., Ross, E.P., Pharo, D., Kreuzer, J.F. and **D.C. Behringer**. *In press*. Pathology and genetic connectedness of the mangrove crab (*Aratus pisonii*) – a foundation for understanding mangrove disease ecology. *Animal Diseases*.
61. Stratton, C.E., Reisinger, L.S., **Behringer, D.C.** and J. Bojko. 2022. Revising the Freshwater *Thelohania* to *Astathelohania* gen. et comb. nov., and description of two new species. *Microorganisms* 10, 636. 10.3390/microorganisms10030636.
60. Walters, E.A., Crowley, C., Gandy, R. and **D.C. Behringer**. *Accepted*. A reflex action mortality predictor (RAMP) for commercially fished blue crab *Callinectes sapidus* in Florida. *Fisheries Research*.
59. Jennings, L.A., Blakeslee, A.M.H., McCoy, K.A., **Behringer, D.C.**, and J. Bojko. 2021. Systematic assessment of the Panopeidae and broader Eubrachyura (Decapoda: Brachyura) using mitochondrial genomics. *Arthropod Systematics & Phylogeny* 79: 569-585. DOI: 10.3897/asp.79.e70234.
58. Atherley, N.A.M., Dennis, M.M., **Behringer, D.C.**, and M.A. Freeman. 2021. Size at sexual maturity and seasonal reproductive activity of *Panulirus argus* from Saint Kitts and Nevis. *Marine Ecology Progress Series* 671: 129-145. DOI: 10.3354/meps13762.
57. **Behringer, D.C.** and E. Duermit-Moreau. 2021. Crustaceans, One Health and the changing ocean. *Journal of Invertebrate Pathology* 186. DOI: 10.1016/j.jip.2020.107500.
56. Butler IV, M.J. and **D.C. Behringer**. 2021. Behavioral immunity and social distancing in the wild: the same as in humans? *BioScience* biaa176. DOI: 10.1093/biosci/biaa176.
55. Jennings, L.A., Bojko, J., Rotjan, R.D., and **D.C. Behringer**. 2021. *Cirolana westbyii* n. sp., (Isopoda: Cirolanidae) a novel species in the '*Cirolana parva*-group' from the Turneffe Atoll, Belize. *Journal of Natural History* 54: 2053-2069. DOI: 10.1080/00222933.2020.1837273.

54. Griffiths, S.M., Butler IV, M.J., **Behringer, D.C.**, Pérez, T., and R.F. Preziosi. 2021. Oceanographic features and limited dispersal shape the population genetic structure of the vase sponge *Ircinia campana* in the Greater Caribbean. *Heredity* DOI: 10.1038/s41437-020-0344-6.
53. Bojko, J., Jennings, L.A., and **D.C. Behringer**. 2020. A novel positive single-stranded RNA virus from the crustacean parasite, *Probopyrinella latreuticola* (Peracarida: Isopoda: Bopyridae). *Journal of Invertebrate Pathology* 177: 10.1016/j.jip.2020.107494.
52. Allain, T.W., Stentiford, G.D., Bass, D., **Behringer, D.C.**, and J. Bojko. 2020. A novel nudivirus infecting the invasive demon shrimp *Dikerogammarus haemobaphes* (Amphipoda). *Scientific Reports* 10: 14816. DOI: 10.1038/s41598-020-71776-3.
51. Lee, B.B., Schott, E., **Behringer, D.C.**, Bojko, J., Kough, A., and L.V. Plough. 2020. Rapid genetic identification of the blue crab *Callinectes sapidus* and other *Callinectes* sp. using restriction enzyme digestion and High Resolution Melt (HRM) assays. *Frontiers in Marine Science*. DOI: 10.3389/fmars.2020.00633.
50. Stentiford, G.D., Bateman, I.J., Hinchliffe, S., Bass, D., Hartnell, R., Santos, E.M., Devlin, M., Feist, S.W., Taylor, N., Verner-Jeffreys, D., van Aerle, R., Peeler, E.J., Higman, W.A., Smith, L., Baines, R., **Behringer, D.**, Katsiadaki, I., Froehlich, H.E., Tyler, C.R. 2020. Sustainable aquaculture through the One Health lens. *Nature Food* DOI: 10.1038/s43016-020-0127-5.
49. Zhao, M., **Behringer, D.C.**, Bojko, J., Kough, A.S., Plough, L., Tavares, C.P.S., Aguilar-Perera, A., Reynoso, O.S., Seepersad, G., Maharaj, O., Sanders, M.B., Carnales, D., Fabiano, G., Carnevia, D., Freeman, M.A., Atherley, N.A.M., and E.J. Schott. 2020. Association of climate and season with the prevalence and distribution of a pathogenic virus affecting the Atlantic blue crab across its trans-hemispheric range. *Marine Ecology Progress Series* 647: 123-133. DOI: 10.3354/meps13405.
48. Bojko, J., **Behringer, D.C.**, Moler, P., Stratton, C.E.L., and L. Reisinger. 2020. A new lineage of crayfish-infecting Microsporidia: the *Cambaraspora floridanus* n. gen. n. sp. (Glugeida: Glugeidae) complex from Floridian freshwaters (USA). *Journal of Invertebrate Pathology* 171. DOI: 10.1016/j.jip.2020.107345.
47. Griffiths, S.M., Taylor-Cox, E., **Behringer, D.C.**, Butler IV, M.J., Pérez, T., and R.F. Preziosi. 2020. Using genetics to inform restoration and predict resilience in declining populations of a habitat-building marine sponge. *Biodiversity and Conservation*. DOI: 10.1007/s10531-020-01941-7
46. Bojko, J., **Behringer, D.C.**, Moler, P., and L. Reisinger. 2020. *Ovipleistophora diplostomuri*, a parasite of fish and their trematodes, also infects the crayfish *Procambarus bivittatus*. *Journal of Invertebrate Pathology* 169: DOI 10.1016/j.jip.2019.107306.
45. Subramaniam, K., **Behringer, D.C.**, Bojko, J., Yutin, N., Clark, A.S., van Aerle, R., Bass, D., Bateman, K.S., Kerr, R., Koonin, E.V., Stentiford, G.D., and T.B. Waltzek. 2020. A new family of DNA viruses causing disease in crustaceans from diverse aquatic biomes. *mBio* 11:e023938-19. DOI: 10.1128/mBio.02938-19.
44. Dickson, M.D., **Behringer, D.C.**, and J.A. Baeza. 2020. Population dynamics and reproductive characteristics of the peppermint shrimp *Lysmata boggessi*, a heavily traded invertebrate in the marine ornamental industry. *PeerJ* 8:e8231. DOI: 10.7717/peerj.8231.
43. Bojko, J., McCoy, K.A., **Behringer, D.C.**, and A. Blakeslee. 2019. A circular ssDNA virus (*Microviridae: Gokushovirinae: Jodiemicrovirus*) associated with the pathobiome of the

- flat-back mud crab, *Eurypanopeus depressus*. *Microbiology Resource Announcements* 8: e01026-19. DOI: 10.1128/MRA.01026-19.
42. Bojko, J., Subramaniam, K., Waltzek, T.B., Stentiford, G.D., and **D.C. Behringer**. 2019. Genomic and developmental characterisation of a novel bunyavirus infecting the crustacean *Carcinus maenas*. *Nature Scientific Reports* 9: 12957. DOI: 10.1038/s41598-019-49260-4
  41. Griffiths, S.M., Antwis, R.E., Lenzi, L., Lucaci, A., **Behringer, D.C.**, Butler IV, M.J., and R.F. Preziosi. 2019. Host genetics and geography influence microbiome composition in the sponge *Ircinia campana*. *Journal of Animal Ecology* 88: 1684-1695. DOI 10.1111/1365-2656.13065
  40. Small, H.J., Stentiford, G.D., **Behringer, D.C.**, Freeman, M., Atherley, N., Reece, K.S., Bateman, K., and J.D. Shields. 2019. *Ameson herrnkindi* sp. nov. (Microsporidia) infecting the Caribbean spiny lobster *Panulirus argus* from Florida and the Caribbean. *Diseases of Aquatic Organisms* 136: 209-218.
  39. Smukall, M, Shaw, A., and D.C. Behringer. 2019. Effect of simulated catch-and-release angling on post-release mortality and egg viability in sockeye salmon *Oncorhynchus nerka*. *Canadian Journal of Fisheries and Aquatic Sciences* 76: 2390–2395. DOI: 10.1139/cjfas-2018-0426
  38. Ross, E.P., **Behringer, D.C.**, and J. Bojko. 2019. White spot syndrome virus and the Caribbean spiny lobster, *Panulirus argus*: susceptibility and behavioral immunity. *Journal of Invertebrate Pathology* 162: 1-9.
  37. Ross, E.P., **Behringer, D.C.**, Munoz, A., Diaz, D., and J. Bojko. 2019. A histological atlas for the Palinuridae (Crustacea: Decapoda: Achelata): a guide to parasite discovery and spotting the abnormal in spiny lobsters. *Journal of Invertebrate Pathology* 163: 21-33.
  36. Ross, E.P. and **D.C. Behringer**. 2019. Changes in temperature, pH, and salinity affect the sheltering responses of Caribbean spiny lobsters to chemosensory cues. *Nature Scientific Reports* 9: 4375. DOI: 10.1038/s41598-019-40832-y
  35. **Behringer, D.C.**, Karvonen, A., and J. Bojko. 2018. Parasite avoidance behaviours in aquatic environments. *Philosophical Transactions of the Royal Society B*. 373: 20170202. DOI: 10.1098/rstb.2017.0202
  34. Clark, A.C., **Behringer, D.C.**, Small, J.M., and T.B. Waltzek. 2018. Partial validation of a TaqMan real-time quantitative PCR assay for the detection of *Panulirus argus* Virus 1. *Diseases of Aquatic Organisms* 129: 193-198.
  33. Baeza, J.A., Steedman, S., Prakash, S., Liu, X., Bortolini, J.L., Dickson, M., and **D.C. Behringer**. 2018. Mating system and reproductive performance in the isopod *Parabopyrella lata*, a parasitic castrator of the 'peppermint' shrimp *Lysmata boggessi*. *Marine Biology* 165: 41.
  32. Baeza, J.A. and **D.C. Behringer**. 2017. Integrative taxonomy of the ornamental 'peppermint' shrimp public market and population genetics of *Lysmata boggessi*, the most heavily traded species worldwide. *PeerJ* 5:e3786. DOI 10.7717/peerj.3786
  31. Butler IV, M.J., **Behringer, D.C.**, and M.M. Valentine. 2017. Commercial sponge fishery impacts on the population dynamics of sponges in the Florida Keys, FL (USA). *Fisheries Research* 190: 113-121.
  30. Baeza, J.A. and **D.C. Behringer**. 2017. Small-scale spatial variation in population- and

- individual-level reproductive parameters of the blue-legged hermit crab *Clibanarius tricolor*. *PeerJ* 5:e3004. DOI 10.7717/peerj.3004
29. Truelove, N.K., Kough, A.S., **Behringer, D.C.**, Paris, C.B., Box, S.J., Preziosi, R.F., and M.J. Butler IV. 2017. Biophysical connectivity explains population genetic structure in a highly dispersive marine species. *Coral Reefs* 36: 233–244.
  28. **Behringer, D.C.** and J.E. Hart. 2017. Competition with stone crabs drives juvenile spiny lobster abundance and distribution. *Oecologia* 184: 205-218.
  27. Truelove, N.K., Behringer, D.C., Butler IV, M.J., and R.F. Preziosi. 2016. Isolation and characterization of eight polymorphic microsatellites for the spotted spiny lobster, *Panulirus guttatus*. *PeerJ* 4:e1467. DOI 10.7717/peerj.1467
  26. Butler, M.J. IV, **Behringer, D.C.**, Dolan, T.W. III, Moss, J., and J. Shields. 2015. Host behavior suppresses a marine epizootic. *PLOS One*. DOI 10.1371/journal.pone.0126374
  25. Gutzler, B.C., Butler IV, M.J., and **D.C. Behringer**. 2015. Casitas: a location-dependent ecological trap for juvenile Caribbean spiny lobsters, *Panulirus argus*. *ICES Journal of Marine Science* 72: i177-i184.
  24. Spanier, E., Lavalli, K.L., Goldstein, J.S., Groeneveld, J.C., Jordaan, G.L., Jones, C.M., Phillips, B.F., Bianchini, M.L., Kibler, R.D., Díaz, D., Mallol, S., Goñi, R., van der Meeren, G.I., Kleiven, A.R., Agnalt, A., **Behringer, D.C.**, Keegan, W.F., and A. Jeffs. 2015. A concise review of lobster utilization by worldwide human populations from pre-history to the modern era. *ICES Journal of Marine Science* 72: i7-i21.
  23. Kough, A.S., Paris, C.B., **Behringer, D.C.**, and M.J. Butler IV. 2015. Modeling the spread and connectivity of waterborne marine pathogens: the case of PaV1 in the Caribbean. *ICES Journal of Marine Science* 72: i139-i146.
  22. Truelove, N., Griffiths, S., Phil, M., Ley-Cooper, K., Azueta, J., Majil, I., Box, S., **Behringer, D.C.**, Butler IV, M.J., and R.F. Preziosi. 2015. Genetic evidence from the spiny lobster fishery supports international cooperation among Central American marine protected areas. *Conservation Genetics* 16: 347-358.
  21. Baeza, J.A., Dickson, M.D., Squibb, R., Anderson, J.R., and **D.C. Behringer**. 2014. Aspects of the reproductive biology of a heavily traded ornamental shrimp, *Lysmata boggessi* (Crustacea, Decapoda, Caridea), in the southeastern Gulf of Mexico. *Journal of the Marine Biological Association of the United Kingdom* 94: 141-149.
  20. Moss, J., **Behringer, D.C.**, Shields, J.D., Baeza, J.A., Aguilar-Perera, A., Bush, P.G., Dromer, C., Herrera-Moreno, A., Gittens, L., Matthews, T.R., McCord, M.R., Schärer, M.T., Reynal, L., Truelove, N., and M.J. Butler IV. 2013. Distribution, prevalence, and genetic analysis of *Panulirus argus* Virus I from the Caribbean Sea. *Diseases of Aquatic Organisms* 104: 129-140.
  19. Anderson, J.R. and **D.C. Behringer**. 2013. Spatial dynamics in the social lobster *Panulirus argus* in response to diseased conspecifics. *Marine Ecology Progress Series* 474: 191-200.
  18. Anderson, J.R., Spadaro, A.J., Baeza, J.A., and **D.C. Behringer**. 2013. Ontogenetic resource allocation shifts in defensive structures of the Caribbean spiny lobster, *Panulirus argus* (Latreille, 1804). *Biological Journal of the Linnean Society* 108: 87-98.
  17. Baeza, J.A., Anderson, J.R., Spadaro, A.J., and **D.C. Behringer**. 2012. Sexual dimorphism, allometry, and size at first maturity of the Caribbean King Crab, *Mithrax spinosissimus*, in the Florida Keys. *Journal of Shellfish Research* 31: 909-916.

16. **Behringer, D.C.**, Butler, M.J. IV, and G.D. Stentiford. 2012. Disease effects on lobster fisheries, ecology, and culture: overview of DAO Special 6. *Diseases of Aquatic Organisms* 100: 89-93.
15. Stentiford, G.D., Neil, D.M., Peeler, E., Shields, J.D., Small, H.J., Flegel, T.W., Vlak, J., Jones, B., Morado, F., Moss, S., Lotz, J., Bartholomay, L., Reantaso, M., **Behringer, D.C.**, Hauton, C., and D.V. Lightner. 2012. Disease will limit future food supply from the global crustacean fishery and aquaculture sectors. *Journal of Invertebrate Pathology* 110: 141-157.
14. Barbour, A.B., Adams, A.J., Yess, T., **Behringer, D.C.**, and R.K. Wolfe. 2012. Comparison and cost-benefit analysis of PIT tag antennae resighting and seine-net recapture techniques for survival analysis of an estuarine-dependent fish. *Fisheries Research* 121-122: 153-160.
13. **Behringer, D.C.** 2012. Diseases of wild and cultured juvenile crustaceans: insights from below the minimum landing size. *Journal of Invertebrate Pathology* 110: 225-233.
12. Moss, J., Butler, M.J. IV, **Behringer, D.C.**, and J.D. Shields. 2012. Genetic diversity of the Caribbean spiny lobster virus, *Panulirus argus* virus 1, and the discovery of PaV1 in lobster post-larvae. *Aquatic Biology* 14: 223-232.
11. **Behringer, D.C.**, Butler, M.J. IV, Shields, J.D., and J. Moss. 2012. PaV1 infection in the Florida Spiny Lobster Fishery and its Effects on Trap Function and Disease Transmission. *Canadian Journal of Fisheries and Aquatic Sciences* 69: 136-144.
10. **Behringer, D.C.**, Butler, M.J. IV, Shields, J.D., and J. Moss. 2011. Review of *Panulirus argus* Virus 1 (PaV1) – a decade after its discovery. *Diseases of Aquatic Organisms* 94: 153-160.
9. **Behringer, D.C.** and M.J. Butler IV. 2010. Disease avoidance and its role in shelter competition and predation in Caribbean spiny lobster. *Behavioral Ecology and Sociobiology* 64: 747-756.
8. Kiryu, Y., **Behringer, D.C.**, Landsberg, J.H., and D.B. Petty. 2009. Microsporidiosis in the Caribbean spiny lobster *Panulirus argus* from southeast Florida, USA. *Diseases of Aquatic Organisms* 84: 237-242.
7. **Behringer, D.C.**, Butler IV, M.J., Herrnkind, W.F., Hunt, J.H., Acosta, C.A., and W.C. Sharp. 2009. Is seagrass an important nursery habitat for the Caribbean spiny lobster, *Panulirus argus*, in Florida? *New Zealand Journal of Marine and Freshwater Research* 43: 327-337.
6. **Behringer, D.C.**, Butler IV, M.J., and J.D. Shields. 2008. Ecological and physiological effects of PaV1 Infection on the Caribbean Spiny Lobster (*Panulirus argus* Latreille). *Journal of Experimental Marine Biology and Ecology* 359: 26-33.
5. Butler IV, M.J., **Behringer, D.C.**, and J.D. Shields. 2008. Transmission of *Panulirus argus* virus1 (PaV1) and its effect on the survival of juvenile Caribbean spiny lobster. *Disease of Aquatic Organisms* 79: 173-182.
4. **Behringer, D.C.**, Butler IV, M.J., and J.D. Shields. 2006. Ecology: avoidance of disease in social lobsters. *Nature* 441: 421.
3. **Behringer, D.C.** and M.J. Butler IV. 2006. Stable isotope analysis of production and trophic relationships in a tropical marine hard-bottom community. *Oecologia* 148: 334-341.

2. **Behringer, D.C.** and M.J. Butler IV. 2006. Density-dependent population dynamics in juvenile *Panulirus argus* (Latrielle): the impact of artificial enhancement. *Journal of Experimental Marine Biology and Ecology* 334: 84-95.
1. Shields, J.D. and **D.C. Behringer**. 2004. A new pathogenic virus in the Caribbean spiny lobster *Panulirus argus* from the Florida Keys. *Diseases of Aquatic Organisms* 59: 109-118.

#### Submitted

- Walters, E.A., Crowley, C.E., Gandy, R.L., Martin, C.W., Shea, C.P. and **D.C. Behringer**. *Submitted*. Estimating discard mortality in Florida's blue crab *Callinectes sapidus* fishery using reflex impairment, injuries, and salinity. Submitted to *Marine and Coastal Fisheries*.
- Duermitt-Moreau, E., Bojko, J. and **D.C. Behringer**. *Submitted*. Cyanobacterial blooms alter benthic community structure and parasite prevalence among invertebrates in Florida Bay. Submitted to *Marine Ecology Progress Series*.
- Lieurance, D., Canavan, S., **Behringer, D.**, Kendig, A., Minter, C., Reisinger, L., Romagosa, C., Flory, L., Lockwood, J., Anderson, P., Baker, S., Bojko, J., Bowers, K., Canavan, K., Carruthers, K., Daniel, W., Gordon, D., Hill, J., Howeth, J., Iannone III, B., Jennings, L., Gettys, L., Kariuki, E., Kunzer, J., Laughinghouse IV, D., Mandrak, N., McCann, S., Morawo, T., Morningstar, C., Neilson, M., Petri, T., Pflingsten, I., Reed, R., Walters, L., Wanamaker, C., *Submitted*. Scanning the horizon from land to sea for invasive species threats to Florida. Submitted to *Conservation Letters*.
- Pharo, D.M. and **D.C. Behringer**. *Submitted*. The effects of hard-bottom habitat degradation on the Florida stone crab *Menippe mercenaria* in the Florida Keys. Submitted to *Marine Ecology Progress Series*.
- Stratton, C.E., Moler, P., Allain, T.W., Reisinger, L.S., **Behringer, D.C.** and J. Bojko. *Submitted*. The plot thickens: Trophically transmissible *Ovipleistophora diplostomuri* infects two additional species of Florida crayfish. Submitted to the *Journal of Invertebrate Pathology*.

#### **Peer-reviewed Proceedings**

- Butler IV, M.J., **Behringer, D.C.** and J.D. Shields. 2007. Resource conditions: lobster disease and sponge fishery impacts. Pp. 139-142 *in*: Keller, B.D., and F.C. Wilmot, eds. Connectivity: science, people and policy in the Florida Keys National Marine Sanctuary. Colloquium proceedings, 19-21 August 2004, Key West, FL. Marine Sanctuaries Conservation Series NMSP-07. U.S. Department of Commerce, NOAA, National Marine Sanctuary Program, Silver Spring, MD. 272 pp.

#### **Non-refereed Research Publications**

- Truelove, N., Preziosi, R., **Behringer, D.C.**, and M.J. Butler IV. 2015. Characterization of two microsatellite PCR multiplexes for high throughput genotyping of the Caribbean spiny lobster, *Panulirus argus*. PeerJ Preprint.
- Anderson, J.R., and **D.C. Behringer**. 2012. PaV1 Detection by the Caribbean spiny lobster and its effect on population spatial structure. Proceedings of the Gulf and Caribbean Fisheries Institute 64: 427-428.
- Truelove, N.K., Burdfield-Steel, E., Griffiths, S., Ley-Cooper, K., Preziosi, R., Butler IV, M.J., **Behringer, D.C.**, Box, S., and S. Canty. 2012. Genetic connectivity of Caribbean spiny

lobster (*Panulirus argus*) in Belize. Proceedings of the Gulf and Caribbean Fisheries Institute 64: 463-467.

Barbour, A.B., Adams, A., and **D.C. Behringer**. 2011. PIT tag antennae arrays as fishery monitoring tools in tropical environments. Proceedings of the Gulf and Caribbean Fisheries Institute 63: 118-124.

**Behringer, D.C.**, Butler IV, M.J., and J.D. Shields. 2010. A review of the lethal spiny lobster virus PaV1 – ten years after its discovery. Proceedings of the Gulf and Caribbean Fisheries Institute 62: 370-375.

Butler IV, M.J., Mojica, A., Sosa-Cordero, E., Millet, M., Sanchez-Navarro, P., Maldonado, M., Posada, J., Rodriguez, B., Rivas, C.M., Oviedo, A., Arrone, M., Prada, M., Bach, N., Jimenez, N., Garcia-Rivas, M., Forman, K., **Behringer, D.C.**, Matthews, T., Paris, C. and R. Cowen. 2010. Patterns of spiny lobster (*Panulirus argus*) postlarval recruitment in the Caribbean: a CRTR project. Proceedings of the Gulf and Caribbean Fisheries Institute 62: 360-369.

### ***Extension, Education, and Technical Publications***

**Behringer, D.C.** 2008. The COSEE:CGOM experience - a matter of perspective. Center for Ocean Science Education Excellence e-newsletter.

*The Lobster Newsletter* – a publication of the general lobster research community and published electronically.

**Topic** - A summary of the special session ‘Diseases & Parasites’ from the 11<sup>th</sup> International Conference and Workshop on Lobster Biology and Management in Portland, Maine June 4 – 9, 2017 (2017)

**Topic** - A call to all lobster pathophiles! This was an article reaching out to other lobster scientists for collaborations on pathogen screening of lobster species from across the globe. (2016)

**Topic** – A summary of the special session and workshop on disease from the 10<sup>th</sup> International Conference and Workshop on Lobster Biology and Management in Cancun, Mexico May 18 – 23, 2014 (2015)

**Topic** – A summary of the special session and workshop on disease from the 9<sup>th</sup> International Conference and Workshop on Lobster Biology and Management in Bergen, Norway June 20 – 24, 2011 (2012)

**Topic** – The first viral disease reported in lobster (2001)

*Water Works* – a University of Florida Cooperative Extension/Institute of Food and Agricultural Sciences publication highlighting aquaculture and pond management programs at the University of Florida.

**Topic** – Are mooring buoys worth their salt? (2012)

**Topic** – Lobster research (2007)

*LAKEWATCH* – a University of Florida publication dedicated to sharing information about water management and the Florida LAKEWATCH Program.

**Topic** – Algal blooms in Florida Bay test the mettle of spiny lobsters (Spring 2009)

## INVITED SEMINARS AND PRESENTATIONS (2015 - PRESENT)

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- 2022 Department of Biological Sciences, Clemson University  
 2021 Retired Faculty of the University of Florida, Seminar Series, UF  
 2019 Ross University Veterinary Medical School, Basseterre, St. Kitts and Nevis  
 2019 Instituto de Investigaciones Pesqueras, Facultad de Veterinaria, Montevideo, Uruguay  
 2018 Ross University Veterinary Medical School, Basseterre, St. Kitts and Nevis  
 2017 The Royal Society, Chicheley Hall, Buckinghamshire, UK  
 2017 Academia Hernando, Florida  
 2016 Reef Environmental Education Foundation, Florida  
 2016 University of Manchester, Manchester, UK  
 2016 Bournemouth University, UK  
 2016 Centre for Environmental, Fisheries, and Aquaculture Science, Lowestoft, UK  
 2015 Department of Biosciences, University of Exeter, Exeter, UK  
 2015 Centre for Environmental, Fisheries, and Aquaculture Science, Weymouth, UK  
 2015 European Union Reference Laboratory for Crustacean Diseases Meeting, UK  
 2015 Florida Interagency Fish and Wildlife Disease Working Group  
 2015 Department of Biological Sciences, Clemson University  
 2015 Biology Department, University of North Florida  
 2013 Coastal and Oceanographic Engineering, University of Florida  
 2013 Climate Change Symposium (plenary), University of Florida  
 2013 Wildlife and Aquatic Animal Veterinary Disease Laboratory, University of Florida  
 2013 Odum Center for Wetlands, University of Florida  
 2013 University and Industry Consortium spring meeting  
 2012 Institute of Marine and Environmental Science, University of Maryland  
 2012 School of Natural Resources and the Environment, University of Florida  
 2011 Marine Biology Club, University of Florida  
 2011 Evenings at Whitney Lecture Series, University of Florida  
 2011 University of Manchester, Manchester, UK  
 2009 Marine Biology Club, University of Florida  
 2009 Bigelow Marine Laboratory, Maine  
 2009 College of Veterinary Medicine, University of Florida  
 2008 Annual Docents Seminar, Florida Museum of Natural History  
 2008 Lighthouse Point Saltwater Sportsman's Association  
 2008 Center for Ocean Science Education Excellence, Cedar Key, Florida  
 2008 Pompano Beach Spearfishing Club  
 2007 College of Veterinary Medicine, University of Florida  
 2007 Department of Fisheries and Aquatic Sciences, University of Florida  
 2006 Smithsonian Institution Fort Pierce Research Station

## GRANTS AND CONTRACTS

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### External Funding

Role	Agency	Grant Title	Dates	Amount
Co-PI (50%)	Wisconsin Department of Natural Resources	A microsporidian pathogen as a control for invasive crayfish	2022-2024	\$199,703

PI	National Fish and Wildlife Foundation	A pilot study of sponge enhancement and restoration in the Tarpon Springs region of Florida	2021-2023	\$13,723
PI	NOAA/ Sea Grant Program	A Pilot Study of Sponge Enhancement and Restoration in the Tarpon Springs Region of Florida	2021-2023	\$10,000
Co-PI (50%)	NOAA	Epidemiology and reproductive impacts of the newly discovered egg parasite <i>Carcinonemertes obrieni</i> on the Caribbean spiny lobster fishery in Florida and the Caribbean	2020-2023	\$298,235
Co-PI (50%)	Wisconsin Department of Natural Resources	Using pathogens to control impacts of invasive crayfish	2019-2022	\$199,966
PI	NOAA/Sea Grant Program	Reduction in trap-related mortality of sublegal Caribbean spiny lobsters through the development of an artificial bait based on natural aggregation pheromones	2018-2021	\$199,928
PI	National Science Foundation	Collaborative research: determining how variation in life history and connectivity drive pathogen-host dynamics and genetic structure in a trans-hemispheric pathosystem	2017-2022	\$1,014,893
Co-PI (15%)	Bureau of Ocean Energy Management	Ecological function and recovery of biological communities in dredged ridge-swale habitats off the east coast of Florida	2013-2021	\$4,551,728
PI	FWC	Molecular analysis of spiny lobster tissue samples to estimate infection prevalence of the PaV1 virus	2017-2018	\$22,692
PI	NOAA/Sea Grant Program	Returning ecological function to hard-bottom regions in the Florida Keys through sponge restoration and its importance for an essential fish habitat	2016-2019	\$197,520
PI	U.S. Fulbright Scholars Program	Marine pathogens as drivers of European crustacean ecology and fishery dynamics	2014-2016	\$30,712
PI	Christopher Reynolds Foundation	Genetic connections: scientific collaboration on shared marine resources between Cuba and Florida	2014-2016	\$4,000
PI	NOAA/	Tools for sustainably managing	2014-2017	\$248,115

	Saltonstall-Kennedy Program	the Florida lobster fishery under threat from disease and climate change		
PI	FWC	Molecular analysis of spiny lobster tissue samples to estimate infection prevalence of the PaV1 virus	2017-2017	\$7,766
PI	FWC	Ecological importance and genetic population structure of several invertebrates in the Florida marine life fishery	2015-2016	\$136,686
PI	FWC State Wildlife Grants Program	Are mooring buoys effective for managing vessel anchoring?	2012-2015	\$94,944
Co-PI (50%)	NOAA/Nature Conservancy	Restoration of shallow sponge communities in the Florida Keys, phase II	2012-2014	\$82,990
PI	NOAA/Sea Grant Program	Determining the ecological and epidemiological consequences of casitas in the Florida Spiny lobster fishery	2012-2014	\$193,855
PI	FWC	Advancing toward a stock status evaluation for key species in the Florida marine life fishery	2014-2014	\$30,000
PI	FWC	Life history studies on two emblematic ornamental crustaceans from the Florida Keys, the blue-legged hermit crab <i>Clibanarius tricolor</i> and peppermint shrimp of the genus <i>Lysmata</i>	2011-2013	\$99,940
PI	National Science Foundation	Collaborative research: Connectivity of disease in marine ecosystems: multi-scale dynamics of a viral disease infecting Caribbean spiny lobster	2009-2013	\$1,409,633
Co-PI (50%)	NOAA/TNC	Restoration of shallow sponge communities in the Florida Keys: phase I	2009-2011	\$82,318
Co-PI (50%)	US Park Service	A proposal for shallow hard-bottom sponge community restoration research in the Everglades National Park	2009-2011	\$74,991
PI	FL Fish and Wildlife Conservation Commission (FWC) – State Wildlife Grant	Determining coral reef impacts associated with boat anchoring and user activity in Broward and Palm Beach Counties	2008-2012	\$105,623
PI	Florida	Determining coral reef impacts	2008-2011	\$91,993

	Department of Environmental Protection (FDEP)	associated with boat anchoring and user activity in Miami-Dade County		
PI	Mote Marine Lab	Determining coral reef impacts associated with boat anchoring and user activity	2009-2011	\$40,892
PI	FDEP	Determination of vessel use patterns on coral reefs within the Southeast Florida Coral Reef Initiative (SEFCRI) region	2008-2011	\$92,037
PI	Mote Marine Lab	Determining coral reef impacts associated with boat anchoring and user activity	2008-2009	\$38,349
PI	NOAA/FL Sea Grant	The possible effects of commercial trap fishing on a lethal viral disease (PaV1) in spiny lobsters	2008-2010	\$155,494
PI	Mote Marine Lab	Investigating the role of the spotted spiny lobster ( <i>Panulirus guttatus</i> ) on the recovery of the long-spined sea urchin ( <i>Diadema antillarum</i> ) on the coral reefs of the Florida Keys	2008-2009	\$13,961
PI	NOAA	The impact of anthropogenic disturbance on the prevalence and distribution of the lethal spiny lobster pathogen PaV1 in the Caribbean	2006-2007	\$62,678
Co-PI (25%)	NSF	Disease dynamics in degraded nurseries: ecology of viral disease in a social, marine animal	2005-2008	\$528,878
Co-PI (25%)	NSF	The behavioral and ecological effects of viral disease in Caribbean Spiny Lobster	2002-2004	\$381,543

### Internal Funding

Role	Agency	Grant Title	Dates	Amount
Co-PI (14%)	Travel Awards for Research Grant Enhancement	Biological invasions and ecosystem services in a changing world	2018-2019	\$10,458
PI	IFAS Mid-Career Travel Award	Comparative effects of environmental change on the Mediterranean spiny lobster <i>Palinurus elephas</i>	2017-2018	\$8,804

PI (50%)	University of Florida Opportunity Seed Fund	Applying advanced tools in molecular biology and phylogeography to determining the origins and patterns of dispersal in a lethal marine pathogen	2015-2017	\$85,502
PI	University of Florida – Faculty Enhancement Opportunity	Marine pathogens as drivers of crustacean ecology and fishery dynamics	2015-2016	\$35,855
PI	IFAS Office of Research – Seed Funding	Disease ecology impacts crustacean fisheries globally	2013-2014	\$2,200

## TEACHING

Marine Ecological Processes FAS 4270/6272 (every fall)

Field Ecology of Aquatic Organisms FAS 4932/5276C (every summer)

UF in the UK: Coastal Biology, Natural History & Culture (every summer 2022 – Present)

UF in Cuba: Tropical Marine & Island Ecology FAS 4932/6932 (every summer 2015 – 2019)

Aquatic Animal Conservation Issues VME 4906/VME 6934 (team-taught every year)

Aquatic Wildlife Health Issues VME 4013/6011 (team-taught every year)

## MENTORING – GRADUATE STUDENTS AND POSTDOCS

<u>Role</u>	<u>Individual</u>	<u>Graduation/Departure Date (expected)</u>
Postdoc	Jamie Bojko	Nov 2019
Ph.D. student	Lucas Jennings	(2025)
Ph.D. student	Penny McCowen	(2025)
Ph.D. student	Elizabeth Moreau	May 2022
Ph.D. student	Erica Ross	May 2019
Ph.D. student	Abigail Clark	Dec 2017
Ph.D. student	Andrew Barbour	Dec 2013
M.S. student	Katherine Rose	May 2022
M.S. student	Amy Oxton	May 2021
M.S. student	Abigail Scro	May 2021
M.S. student	Erin Walters	May 2022
M.S. student	Megan Lamb	May 2018
M.S. student	Danielle Puls	Aug 2015
M.S. student	Andrew Barbour	Trans to PhD
M.S. student	Daniel Veras Mena	Aug 2018
M.S. student	Devon Pharo	Aug 2018
M.S. student	Nathan Berkebile	Aug 2017
M.S. student	Danielle Puls	Aug 2015
M.S. student	Michael Dickson	Dec 2014

M.S. student	John Hart	May 2014
M.S. student	Joshua Anderson	Aug 2011
MFAS student	Susan Forrest	(2023)
MFAS student	Lena Donnarumma	May 2022
MFAS student	Robert Goss	May 2020
MFAS student	Laela Booshehri	Dec 2019
MFAS student	Stephen Tracy	May 2019
MFAS student	Matthew Smukall	Dec 2014

### **MENTORING – STUDENT GRANTS AND AWARDS (2015 – PRESENT)**

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- Elizabeth Duermit (Ph.D.) – Guy Harvey Scholarship (2020)
- Katherine Rose (M.S.) – Int’l Women’s Fishing Association Scholarship Trust (2020)
- Elizabeth Duermit (Ph.D.) – Cynthia Melnick Scholarship (2020)
- Katherine Rose (undergrad) – CLAS Anderson Scholar of High Distinction Award (2019)
- Katherine Rose (undergrad) – Alumni Association Outstanding 4 Year Scholar Award (2019)
- Abigail Scro (M.S.) – Lerner-Grey Memorial Fund grant (2019)
- Erica Ross (Ph.D.) - Fisheries and Aquatic Sciences Graduate Student of the Year (2019)
- Katherine Rose (undergrad) – E.T. York Medal of Excellence (2019)
- Laela Booshehri (MFAS) – Graduate Student Council travel grant (2019)
- Erica Ross (Ph.D.) – UF Office of Research travel grant (2019)
- Erica Ross (Ph.D.) – SFRC Travel Scholarship (2019)
- Erica Ross (Ph.D.) – Graduate Student Council travel grant (2019)
- Elizabeth Duermit (Ph.D.) –Smith Memorial Marine Conservation Scholarship (2019)
- Elizabeth Duermit (Ph.D.) – Florida Sea Grant Aylesworth Scholarship (2019 – 2021)
- Abigail Scro (M.S.) – Int’l Women’s Fishing Association Scholarship Trust (2019)
- Elizabeth Duermit (Ph.D.) – Davidson Travel Scholarship (2019)
- Katherine Rose (undergrad) – CLAS Anderson Scholar Award (2018)
- Elizabeth Duermit (Ph.D.) – Movement Ecology Workshop, South Africa (2018)
- Elizabeth Duermit (Ph.D.) – North Florida Marine Science Symposium – Best Graduate Student Poster (2018)
- Katherine Rose (undergrad) – CALS Leadership Institute (2017)
- Katherine Rose (undergrad) – University Scholars Program (2017)
- Erica Ross (Ph.D.) – Cynthia Melnick Scholarship (2017)
- Erica Ross (Ph.D.) – Davidson Travel Scholarship (2017)
- Elizabeth Duermit (Ph.D.) – UF Pre-eminence Graduate Fellowship (2017 – 2021)
- Devon Pharo (M.S.) – Florida Sea Grant Aylesworth Scholarship (2017 – 2018)
- Devon Pharo (M.S.) – Florida Sea Grant Scholar (2017 – 2018)
- Erica Ross (Ph.D.) – Florida Sea Grant Scholar (2017 – 2018)
- Daniel Veras (M.S.) – Fulbright Postbaccalaureate Award (2016 – 2018)

- Erica Ross (Ph.D.) – Guy Harvey Scholarship (2015)

## **UNIVERSITY GOVERNANCE AND SERVICE (2015 – PRESENT)**

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### *University level*

- **Member**, University of Florida Faculty Senate, 2020 – present
- **Chair**, Search and Screen Committee for Florida Sea Grant Director, 2019 – 2020
- **Member**, UF Fulbright Campus Interview Committee, 2019 - present
- **Reviewer**, UF International Center Scholarship Competition (20 proposals), 2019
- **Chair**, 2018 North Florida Marine Science Symposium Committee
- **Member**, Center for Latin American Studies – Cuba Conference Committee, 2016 – 2017
- **Member**, Center for Latin American Studies – Cuba Working Group, 2015 – present
- **Member**, Environmental Health and Science building committee, 2014 – 2015
- **Co-chair**, North Florida Marine Science Symposium Committee, 2013, 2014, 2016

### *College*

- **Member**, Mentoring Committee for Nature Coast Biological Station Research Assistant Professor, Dr. Charles Martin, 2019 – present
- **Member**, Mentoring Committee for Nature Coast Biological Station Research Assistant Professor, Dr. David Chagaris, 2018 – present
- **Member**, Search and Screen Committee for Florida Cooperative Fish and Wildlife Research Unit Director position, 2014, 2015 (second search)

### *Department*

- **Graduate Programs Coordinator**, 2021 - present
- **Chair**, Distance Education Committee, 2020 – 2022
- **Member**, School of Forest Resources and Conservation- Name Change Committee, 2017 – 2018
- **Chair**, Peer Teaching Evaluation Committee for Dr. Shirley Baker, Associate Professor, 2017 - 2018
- **Member**, Peer Teaching Evaluation Committee for Dr. Alison Adams, Assistant Professor, 2017, 2021-2022
- **Member**, Search and Screen Committee for School of Forest Resources and Conservation Unit Director position, 2016
- **Member**, Screening Committee for spousal hire accommodation (Lindsey Reisinger), 2016
- **Member**, Human Resources Assistant Search Committee, 2015

## **PROFESSIONAL ACTIVITIES AND SERVICE (2015 – PRESENT)**

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### *Editorial activities*

- **Associate Editor**, Frontiers in Marine Science – Conservation and Sustainability, 2021 - present
- **Editorial Board**, Nature Scientific Reports, 2016 - present

- **Review Editor**, Diseases of Aquatic Organisms, 2019 – present
- **Lead Editor (book)**, Oxford University Press, Marine Disease Ecology, 2018 – 2020
- **Guest Editor**, Bulletin of Marine Science, 2017 – 2018
- **Review Editor**, Frontiers in Marine Science – Coral Reef Research, 2014 – present
- **Review Editor**, Frontiers in Marine Science – Marine Conservation and Sustainability, 2014 – 2021

### *Service to the profession*

- **Review panel member**, Fulbright U.S. Scholar Peer Review Committee (Virtual panel, 33 proposals), 2020
- **Review panel member**, Fulbright U.S. Scholar Peer Review Committee (Washington D.C., 60 proposals), 2019
- **Team leader (marine)**, Invasive Species Horizon Scan for Florida, 2019 – present
- **International advisory committee**, 12<sup>th</sup> International Conference and Workshop on Lobster Biology and Management, 2021 – 2022 (Fremantle, Australia)
- **Review panel member**, Fulbright U.S. Scholar Discipline Review Panel (15 proposals), 2018
- **Organizing committee member**, International Conference and Workshop on Lobster Biology and Management, 2010 – 2011 (Bergen, Norway), 2013 – 2014 (Cancun, Mexico), 2016 – 2017 (Portland, Maine), 2021-2022 (Fremantle, Australia)
- **Organizing committee member**, 2017 UF Center for Latin American Studies Cuba Conference, 2016 – 2017
- **Reading panelist**, US-UK Fulbright Commission (12 proposals), 2017
- **Technical advisory committee**, Florida DEP/ NOAA – Southeast Florida Coral Reef Initiative (national), 2015 – present
- **Chair**, American Fisheries Society Marine and Coastal Fisheries Publication Awards Committee, 2014 – 2018
- **Organizing committee chair/co-chair**, North Florida Marine Science Symposium, 2010 – 2018
- **Organizing committee member**, International Conference and Workshop on Lobster Biology and Management (Norway, 2010 – 2011, Mexico, 2013 – 2014, Maine, 2016 – 2017)
- **Advisory board member**, Florida DEP/ NOAA – Southeast Florida Coral Reef Initiative (national), 2006 – 2015

### *Professional Societies*

- **Member**, Society for Invertebrate Pathology, 2011 – present
- **Member**, Crustacean Society, 2006 – present
- **Secretary**, Benthic Ecology Meeting Society, 2012 – 2020
- **Member**, National Shellfisheries Association, 2002 – 2004, 2009

**External reviewer for journals and granting agencies:** completed > 80 reviews for journals and granting agencies such as *Aquaculture Nutrition*, *Aquatic Biosystems*, *Biotechnology Reports*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Diseases of Aquatic Organisms*, *Fishery Bulletin*, *Fishery Research*, *Frontiers in Ecology and Evolution*, *Fulbright*, *ICES Journal of Marine Science*, *Integrative and Comparative Biology*, *Journal of Invertebrate Pathology*, *Journal of Experimental Marine Biology and Ecology*, *Journal of Shellfish Research*, *Marine and Coastal Fisheries*, *Marine and Freshwater Research*, *Marine Ecology Progress Series*, *National Science Foundation*, *PeerJ*, *PLoS One*, *Science Advances*, *NOAA/Sea Grant*.