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EDUCATION

PhD. Marine Biosciences, University of Delaware
M.S. Biology, West Chester University
B.S. Biology, Minor in Spanish, Salisbury University
B.S. Marine & Environmental Science, University of Maryland Eastern Shore

PROFESSIONAL EXPERIENCE

2018-present Assistant Professor, Dept. of Soil and Water Sciences, University of Florida
2017-present Affiliate Faculty, School of Natural Resources and Conservation, Univ. of Florida
2017-present Affiliate Faculty, Water Institute, University of Florida
2017-2018 Research Assistant Professor, Dept. of Soil and Water Sciences, Univ. of Florida
2013-2016 Postdoctoral Scientist, University of Florida
2009-2013 Postdoctoral Scientist, Marine Biological Laboratory

GRANTSMANSHIP

2019-2020 Florida Department of Environmental Protection, PI, "Development of alternative *in situ* treatments for stony coral tissue loss disease", \$99,822
2017-2020 EPA Wetlands Program, PI, Determining the ecology of Florida coral disease through surveys, transmission experiments, and microbiome analysis, \$255,913
2017 NSF RAPID: Collaborative Research: Investigation of the transmission, infectivity and differential host specificity of a coral disease outbreak on Florida reefs, Collaborator, \$86,672
2015 L'Oreal USA Fellowship for Women in Science, \$60,000
2011-2013 NSF-funded Center for Dark Energy Biosphere Investigations Postdoctoral Fellowship, \$110,035

PEER-REVIEWED PUBLICATIONS

Key: underlined = student mentored by Meyer

26. Aeby, GS, B Ushijima, JE Campbell, S Jones, GJ Williams, **JL Meyer**, CC Häse, VJ Paul. 2019. Pathogenesis of a tissue loss disease affecting multiple species of corals along the Florida Reef Tract. *Frontiers in Marine Science*. 6:678.
25. **Meyer, JL**, J Castellanos-Gell, GS Aeby, CC Häse, B Ushijima, VJ Paul. 2019. Microbial community shifts associated with the ongoing stony coral tissue loss disease outbreak on the Florida Reef Tract. *Frontiers in Microbiology* 10:2244.
24. Gunasekera, SP, **JL Meyer**, Y Ding, KA Abboud, D Luo, JE Campbell, A Angerhofer, JL Goodsell, LJ Raymundo, J Liu, H Luesch, M Teplitski, VJ Paul. 2019. Chemical and metagenomic studies of the lethal Black Band Disease of corals reveal two broadly distributed, redox-sensitive macrocyclic depsipeptides. *Journal of Natural Products* 82:111-121. PMID:30636420
23. Marcial, GE, AL Ford, MJ Haller, SA Gezan, NA Harrison, D Cai, **JL Meyer**, DJ Perry, MA Atkinson, CH Wasserfall, T Garrett, CF Gonzalez, TM Brusko, WJ Dahl, GL Lorca. 2017.

- Lactobacillus johnsonii* N6.2 modulates the host immune responses: a double-blind, randomized trial in healthy adults. *Frontiers in Immunology* 8:655. PMID:28659913
22. **Meyer, JL**, VJ Paul, L Raymundo, M Teplitski. 2017. Comparative metagenomics of the polymicrobial Black Band Disease of corals. *Frontiers in Microbiology* 8:618. PMID:28458657
 21. Blaustein, RA, GL Lorca, **JL Meyer**, CF Gonzalez, M Teplitski. 2017. Defining the core citrus leaf- and root-associated microbiota: Factors associated with community structure and Implications for managing Huanglongbing (Citrus greening) disease. *Applied and Environmental Microbiology* 83 (11): e00210-17. PMID:28341678
 20. **Meyer, JL**, JM Rodgers, BA Dillard, VJ Paul, M Teplitski. 2016. Epimicrobiota associated with the decay and recovery of *Orbicella* corals exhibiting Dark Spot Syndrome. *Frontiers in Microbiology* 7:893. PMID:27375605
 19. Reveillaud, J, E Reddington, J McDermott, C Algar, **JL Meyer**, S Sylva, J Seewald, CR German, JA Huber. 2016. Subseafloor microbial communities in hydrogen-rich vent fluids from hydrothermal systems along the Mid-Cayman Rise. *Environmental Microbiology* 18(6):1970-87. PMID:26663423
 18. **Meyer, JL**, U Jaekel, B Tully, BT Glazer, CG Wheat, H Lin, C Hseih, JP Cowen, SM Hulme, PR Girguis, JA Huber. 2016. A distinct and active bacterial community in cold oxygenated fluids circulating beneath the western flank of the Mid-Atlantic Ridge. *Scientific Reports* 6:22541. PMID:26935537
 17. **Meyer, JL**, SP Gunasekera, RM Scott, VJ Paul, M Teplitski. 2016. Microbiome shifts and the inhibition of quorum sensing by Black Band Disease cyanobacteria. *The ISME Journal* 10(5):1204-1216. PMID:26495995
 16. **Meyer, JL**, BA Dillard, JM Rodgers, KB Ritchie, VJ Paul, M Teplitski. 2015. Draft genome sequence of *Halomonas meridiana* R1t3 isolated from the surface microbiota of the Caribbean Elkhorn coral *Acropora palmata*. *Standards in Genomic Sciences* 10:75. PMID:26451236
 15. **Meyer, JL**, VJ Paul, and M Teplitski. 2014. Community shifts in the surface microbiomes of the coral *Porites astreoides* with unusual lesions. *PLOS ONE* 9(6): e100316. PMID:24937478
 14. Zaragoza, W, CJ Krediet, **JL Meyer**, G Canas, KB Ritchie, and M Teplitski. 2014. Outcomes of infections of a sea anemone *Aiptasia pallida* with *Vibrio* spp pathogenic to corals. *Microbial Ecology* 63: 388-396. PMID:24619233
 13. Krediet, CJ, **JL Meyer**, N Gimbrone, R Yanong, I Berzins, H Castro, A Alagely, KB Ritchie, VJ Paul, and M Teplitski. 2014. Interactions between the tropical sea anemone *Aiptasia pallida* and *Serratia marcescens*, an opportunistic pathogen of corals. *Environmental Microbiology Reports* 6(3): 287-292. PMID:24983533
 12. **Meyer, JL** and JA Huber. 2014. Strain-level genomic variation in natural populations of *Lebetimonas* from an erupting deep-sea volcano. *The ISME Journal* 8: 867-880. PMID:24257443

11. **Meyer, JL**, NH Akerman, G Proskurowski, and JA Huber. 2013. Microbiological characterization of post-eruption “snowblower” vents at Axial Seamount, Juan de Fuca Ridge. *Frontiers in Microbiology* 4:153. PMID:23785361
10. **Meyer (Smith), JL**, JE Barrett, G Tusnády, L Rejtő, SC Cary. 2010. Resolving environmental drivers of microbial community structure in Antarctic soils. *Antarctic Science* 22: 673-680.
9. German, CR, A Bowen, ML Coleman, DL Honig, JA Huber, MV Jakuba, JC Kinsey, MD Kurz, S Leroy, JM McDermott, B Mercier de Lépinay, K Nakamura, JS Seewald, **JL Meyer (Smith)**, SP Sylva, CL Van Dover, LL Whitcomb and DR Yoerger. 2010. Diverse styles of submarine venting on the ultra-slow spreading Mid-Cayman Rise. *Proceedings of the National Academy of Sciences* 107: 14020-14025. PMID:20660317
8. Fonseca, DM, **JL Meyer (Smith)**, HC Kim, M. Mogi. 2009. Population genetics of the mosquito *Culex pipiens pallens* reveals sex-linked asymmetric introgression by *Culex quinquefasciatus*. *Infection Genetics and Evolution* 9(6): 1197-1203.
7. Campbell, BJ, **JL Meyer (Smith)**, TE Hanson, MG Klotz, LY Stein, CK Lee, D Wu, JM Robinson, HM Khouri, JA Eisen, and SC Cary. 2009. Adaptations to submarine hydrothermal environments exemplified by the genome of *Nautilia profundicola*. *PLOS Genetics* 5(2): e1000362. PMID:19197347
6. **Meyer (Smith), JL**, BJ Campbell, TE Hanson, CL Zhang and SC Cary. 2008. *Nautilia profundicola* sp. nov., a thermophilic sulfur-reducing ϵ -proteobacterium from deep-sea hydrothermal vents. *International Journal of Systematic and Evolutionary Microbiology* 58: 1598-1602. PMID:18599701
5. **Meyer (Smith), JL**. 2006. A bryological assessment of the Flint Woods Preserve, Delaware. *The Northeastern Naturalist* 13(1): 117-130.
4. Fonseca, DM, **JL Meyer (Smith)**, RC Wilkerson, and RC Fleischer. 2006. Pathways of expansion and multiple introductions illustrated by large genetic differentiation among worldwide populations of the southern house mosquito. *American Journal of Tropical Medicine and Hygiene* 74(2): 284-289.
3. **Meyer (Smith), JL**, N Keyghobadi, MA Matrone, RL Escher, DM Fonseca. 2005. Cross-species comparison of microsatellite loci in the *Culex pipiens* complex and beyond. *Molecular Ecology Notes* 5(3): 697-700.
2. **Meyer (Smith), JL** and DM Fonseca. 2004. Rapid assays for identification of members of the *Culex* (*Culex pipiens* complex, their hybrids, and other sibling species (Diptera: Culicidae). *American Journal of Tropical Medicine and Hygiene* 70(4): 339-345.
1. **Meyer (Smith), JL**, KL Hunter, and RB Hunter. 2002. Genetic variation in the terrestrial orchid *Tipularia discolor*. *The Southeastern Naturalist* 1(1): 17-26.

BOOK CHAPTERS

1. Teplitski, M, CJ Krediet, **JL Meyer**, KB Ritchie 2016. Microbial interactions on coral surfaces and within the coral holobiont. In *The Cnidaria: past, present, and future. The world of Medusa and her sisters*. Springer.

CONFERENCE PRESENTATIONS (since 2015)

Key: underlined = student mentored by Meyer

1. **Meyer, JL**, G Aeby, C Häse, B Ushijima, VJ Paul. Microbial community shifts associated with the ongoing stony coral tissue loss disease on the Florida Reef Tract. Aquatic Sciences Meeting of the Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico, February 2019.
2. Miller, NM, T Frazer, **JL Meyer**. Microbiome structure of nursery-reared *Acropora cervicornis*. Aquatic Sciences Meeting of the Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico, February 2019.
3. **Meyer, JL**, K. Ritchie, VJ Paul, M. Teplitski. Comparative genomics of marine host-associated Oceanospirillales: what makes a good epibiont? Gordon Research Conference on Animal Microbe Symbioses, Mt. Snow, VT, June 2019.
4. **Meyer, JL**, VJ Paul, M. Teplitski. Transition zones: gene expression during the progression of Black Band Disease in corals. Florida branch of the American Society of Microbiology, Clearwater, FL, October 2017.
5. **Meyer, JL**, VJ Paul, L Raymundo, M Teplitski. Deciphering microbe-microbe interactions in the establishment of coral disease through metagenomics and metatranscriptomics. International Symposium on Microbial Ecology, Montreal, Canada, August 2016.
6. **Meyer, JL**, VJ Paul, L Raymundo, M Teplitski. Microbe-microbe interactions in the establishment of Black Band Disease. International Coral Reef Symposium, Honolulu, HI, June 2016.

TEACHING EXPERIENCE

Instructor, Ecology of Waterborne Pathogens, University of Florida, Spring 2017 - present

Co-instructor, Soil Microbiology, University of Florida, Fall 2018

Instructor, Soils, Water, and Public Health, University of Florida, Summer 2018

PROFESSIONAL SERVICE

Reviewer, *Animal Microbiome, Applied and Environmental Microbiology, Aquatic Microbial Ecology, Diseases of Aquatic Organisms, Diversity, Environmental Microbiology, Extremophiles, FEMS Microbiology Ecology, Frontiers in Microbiology, ISME Journal, Limnology & Oceanography, Molecular Ecology, mSystems, Oceanography, Peer J, PLOS One, Scientific Reports*

Ad Hoc Reviewer, National Science Foundation Biological Oceanography (2013, 2014, 2018), National Science Foundation Plant Biotic Interactions (2019), Marden Fund (2019), Austrian Science Fund (2016, 2017)

Reviewer, L'Oréal USA For Women in Science Fellowship (2018)