

## Julie L Meyer

Department of Soil and Water Science,  
Genetics Institute Rm330E, 2033 Mowry Rd,  
University of Florida, Gainesville, FL 32611  
juliemeyer@ufl.edu  
[google scholar profile](#)  
[meyermicrobes.wordpress.com](http://meyermicrobes.wordpress.com)

### 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

2017-present Research Assistant Professor, University of Florida  
  
2013-2016 Postdoctoral Scientist, University of Florida  
  
2011-2013 Center for Dark Energy Biosphere Investigations Postdoctoral Fellow, Marine Biological Laboratory  
  
2009-2011 Postdoctoral Scientist, Marine Biological Laboratory  
  
2005-2009 Graduate Research Fellow, University of Delaware  
  
2003-2005 Biological Research Technician, Genetics Program, Smithsonian Institution

### PUBLICATIONS

**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](#)

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](#)

**Meyer, JL**, U Jaekel, B Tully, BT Glazer, CG Wheat, H Lin, C Hsieh, 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](#)

**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](#)

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.

- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- Meyer (Smith), JL**, JE Barrett, G Tusnády, L Rejtö, SC Cary. 2010. Resolving environmental drivers of microbial community structure in Antarctic soils. *Antarctic Science* 22: 673-680.
- 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](#)
- 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.
- 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](#)
- Meyer (Smith), JL**, BJ Campbell, TE Hanson, CL Zhang and SC Cary. 2008. *Nautilia profundicola* sp. nov., a thermophilic sulfur-reducing  $\square$ -proteobacterium from deep-sea hydrothermal vents. *International Journal of Systematic and Evolutionary Microbiology* 58: 1598-1602. [PMID:18599701](#)
- Meyer (Smith), JL**. 2006. A bryological assessment of the Flint Woods Preserve, Delaware. *The Northeastern Naturalist* 13(1): 117-130.

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.

**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.

**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.

**Meyer (Smith), JL**, KL Hunter, and RB Hunter. 2002. Genetic variation in the terrestrial orchid *Tipularia discolor*. *The Southeastern Naturalist* 1(1): 17-26.

### **SUCCESSFUL GRANT FUNDING**

2016 Protect Our Reefs Grant Program, Co-PI "The role of native bacteria of boulder corals in the Black Band Disease", \$14,139

2015 L'Oreal USA Fellowship for Women in Science, \$60,000

2015 Elsevier Tropical Connections Fellowship for Postdoctoral Professional Development

2011-2013 NSF-funded Center for Dark Energy Biosphere Investigations Postdoctoral Fellowship, \$110,035

2012 Center for Dark Energy Biosphere Investigations Postdoctoral Travel Grant

2007 University of Delaware Graduate Student Travel Grant

2007 University of Delaware CMES Travel Grant

2001 West Chester University Graduate Student Research Support Fund

1999 Salisbury University Dual Degree Program Research Grant

1999 Salisbury University Travel Grant

### **TEACHING AND OUTREACH EXPERIENCE**

Visiting Lecturer, Undergraduate Microbiology Lab, Bridgewater State University, Spring 2013

Invited speaker on careers in marine science for high school classes, National Oceanic and Atmospheric Administration, Woods Hole, MA, Jan/Feb 2011

Science Tutor, 2002

Upward Bound Program, Delaware Technical Community College, Wilmington, DE

Volunteer Coordinator and Environmental Education Specialist, 2000-2002

Delaware Nature Society, Hockessin, DE

Park Naturalist, 2000

White Clay Creek State Park, Newark, DE

Seasonal Park Naturalist, 1998

Pocomoke River State Forest and Park, Snow Hill, MD

## MENTORING

2015-2016 Mentored 3 undergraduate research volunteers in microbiology of coral diseases in each of 4 semesters; total of 5 volunteers, resulting in 4 undergraduate co-authorships  
2013-2014 Mentored 2 undergraduate research volunteers in study of coral pathogens, resulting in 2 undergraduate co-authorships  
2010 Trained 2 community college student interns in isolation of deep sea bacteria  
2008-2009 Trained 2 junior graduate students in anaerobic bacterial culturing  
2004-2005 Trained 2 junior lab technicians in molecular biology techniques

## RESEARCH CRUISE EXPERIENCE

2010 R/V *Thomas G. Thompson*, ROV *Jason II*, Axial Seamount, Juan de Fuca Ridge  
2010 R/V *Kilo Moana*, ROV *Jason II*, NW Rota Seamount, Mariana Arc  
2009 R/V *Cape Hatteras*, HROV *Nereus*, Mid-Cayman Rise  
2008 R/V *Atlantis*, HOV *Alvin*, 9°N East Pacific Rise and Guaymas Basin  
2007 R/V *Atlantis*, HOV *Alvin*, 9°N East Pacific Rise and Guaymas Basin

## SEMINARS & PRESENTATIONS

- 2016 Poster presentation at the International Symposium on Microbial Ecology (ISME16):  
“Deciphering microbe-microbe interactions in the establishment of coral disease through metagenomics and metatranscriptomics”
- 2016 Oral presentation at the International Coral Reef Symposium: “Microbe-microbe interactions in the establishment of Black Band Disease”
- 2014 MicroSeminar, web-based Microbiology Seminar Series: “Microbe-microbe interactions and the role of nutrients in coral disease”
- 2014 Oral presentation at the Joint Conference of the Southeast & Florida branches of the American Society of Microbiology: “Community shifts in the surface microbiomes of the coral *Porites astreoides* with unusual lesions”
- 2014 C-DEBI Networked Seminar Series: “Microbial life in cold, hydrologically active oceanic crustal fluids”
- 2012 Oral presentation at the Fall Meeting of the American Geophysical Union: “Microbial life in cold, hydrologically active oceanic crustal fluids”
- 2012 Poster presentation at the International Symposium on Microbial Ecology (ISME14):  
“Strain-level genomic variation in natural populations of *Lebetimonas* from an erupting deep sea volcano”
- 2012 Poster presentation at the Dark Energy Biosphere Institute Research Coordination Network Annual Meeting: “Microbiological characterization of a post-eruption “snowblower” event at Axial Seamount, Juan de Fuca Ridge”
- 2010 Invited seminar speaker, Josephine Bay Paul Center Seminar Series: “Life on the edge (of a hydrothermal gradient): how *Epsilonproteobacteria* survive and thrive at deep-sea volcanoes”
- 2010 Poster presentation at the Astrobiology Science Conference: “Microbial and biogeochemical characterization of hydrothermal plumes on the Mid-Cayman Rise”
- 2007 Poster presentation at the General Meeting of The American Society for Microbiology:  
“Resolving environmental drivers of microbial biodiversity in Antarctic Dry Valley mineral soils”

- 2006 Invited seminar speaker, Salisbury University, Henson School of Science & Technology: “Microbial diversity in the McMurdo Dry Valleys, Antarctica”
- 1999 Oral presentation at Joint Meeting of the Society for the Study of Evolution, the American Society of Naturalists, and the Society of Systematic Biologists: “Genetic variation in the clonal orchid *Tipularia discolor*”
- 1999 Oral presentation at National Conference on Undergraduate Research: “Genetic variation in the clonal orchid *Tipularia discolor*”

### **PROFESSIONAL DEVELOPMENT**

- 2016 AAUS Scientific Diver
- April 2014 Stephen Russell Grant Writing Workshop for NSF Career proposals
- Sept 2008 Joint Genome Institute Microbial Genomics and Metagenomics Workshop
- Feb 2008 University of Delaware: Responsible Conduct of Research Workshop
- Spring 2007 University of Delaware: CMES Professionalism Workshop Series
- June 2006 TIGR (now JCVI) Prokaryotic Annotation and Analysis Training
- Spring 2006 University of Delaware: Grant Writing Workshop

### **PROFESSIONAL SERVICE**

**Reviewer**, *Applied and Environmental Microbiology*, *Diversity*, *Environmental Microbiology*, *Extremophiles*, *FEMS Microbiology Ecology*, *Frontiers in Microbiology*, *ISME Journal*, *Oceanography*, *Limnology & Oceanography*, *Peer J*, *PLOS One*

**Ad Hoc Reviewer**, National Science Foundation (Biological Oceanography), 2013, 2014(2); Austrian Science Fund (FWF), 2016

**Reviewer of graduate student fellowship proposals**, Center for Dark Energy Biosphere Investigations, 2011, 2013

**Admissions Committee**, NASA Planetary Biology Internship program 2010, 2012, 2013

**Member**, American Society for Microbiology, American Geophysical Union, International Society for Microbial Ecology