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## EDUCATION

B.A. 1977; Colgate University, Hamilton, NY  
M.S. 1982; Cornell University, Ithaca, NY; Department of Natural Resources  
Ph.D. 1987; University of Georgia, Athens, GA; Graduate Program in Ecology

## HONORARY AND PROFESSIONAL SOCIETIES

American Society of Limnology and Oceanography  
American Society for Microbiology  
American Academy of Microbiology  
International Society for Microbial Ecology  
American Association for the Advancement of Science

## PROFESSIONAL EXPERIENCE

Distinguished Research Professor. 2005-present. Department of Marine Sciences,  
University of Georgia, Athens, GA  
Professor. 2003-present. Department of Marine Sciences, University of Georgia,  
Athens, GA  
Professor. 2003-present. Department of Microbiology, University of Georgia,  
Athens, GA  
Marine Institute Faculty. 2016-present. University of Georgia, Athens, GA  
Associate Professor. 1998-2003. Department of Marine Sciences,  
University of Georgia, Athens, GA  
Assistant Professor. 1993-1998. Department of Marine Sciences,  
University of Georgia, Athens, GA  
Assistant Research Microbiologist. 1989-1992. Department of Microbiology,  
University of Georgia, Athens, GA  
Postdoctoral Associate. 1988-1989. Department of Microbiology, University of  
Georgia, Athens, GA

## HONORS AND AWARDS

Member, Electorate Nominating Committee for Biological Sciences, American  
Association for the Advancement of Science (AAAS), 2016-present  
Board of Reviewing Editors. AAAS Science Magazine, 2015 – present  
Editorial Board, mBIO

Member, American Academy of Microbiology Board of Governors, 2014 - present  
 Member, JGI Scientific Advisory Committee, 2012 - present  
 Member, JGI Prokaryotic Super Program Advisory Committee, 2011- present  
 Member, External Advisory Board. Center for Dark Energy Biosphere  
 Investigations, NSF Science and Technology Center, 2011-2013.  
 Member, American Society for Microbiology, D.C. White Award Committee, 2010-  
 2012  
 Member, American Academy of Microbiology, Committee on Elections, 2011-2014  
 Fellow, American Association for the Advancement of Science, Elected 2009  
 Member, American Society for Microbiology, D. C. White Award Nominations  
 Committee, 2009  
 Member, Scientific Advisory Board, Max Planck Institute for Marine Microbiology,  
 2009-present  
 Chair, Scientific Advisory Board, CAMERA (Community Cyberinfrastructure for  
 Advanced Marine Microbial Ecology Research and Analysis), 2006-2012.  
 American Society for Microbiology, D. C. White Research and Mentoring Award.  
 2008.  
 Gordon and Betty Moore Foundation Investigator in Marine Microbiology, 2004-  
 2015.  
 Chair, U.S.-European Workshop on Microbial Cyberinfrastructure Resources for  
 Microbial Sciences, Washington D.C., 2007  
 Member, *Environmental Microbiology* Editorial Board , 2006  
 Fellow, American Academy of Microbiology, Elected 2006  
 Distinguished Research Professor, University of Georgia, 2005  
 Co-chair, U.S.-European Union Workshop on Genomic Approaches for Studying the  
 Marine Environment and Resources. Bremen, Germany, 2005  
 Organizer, NSF Microbial Observatory/LEExEn Principal Investigators' Workshop,  
 2002  
 Associate Editor, *Limnology and Oceanography*, 1998 – 2004  
 Editorial Board Member, *Applied and Environmental Microbiology*, 1998-2001  
 Chair, American Society for Microbiology, Microbial Ecology Division, 2001–2002  
 Awardee, National Oceanographic Partnership Program (NOPP), 2001  
 Councilor, American Society for Microbiology, Microbial Ecology Division, 1995-  
 1998  
 Creative Research Medal 1997, University of Georgia

## RESEARCH PUBLICATIONS

### Research Papers:

1. Pimentel, D., **M. A. Moran**, S. Fast, G. Weber, R. Bukantis, L. Balliet, P. Boveng, C. Cleveland, S. Hindman, and M. Young. 1981. Biomass energy from crop and forest residues. *Science* 212:1110-1115.
2. **Moran, M. A.** 1984. Influence of adjacent land use on understory vegetation of New York forests. *Urban Ecology* 8:329-340.

3. Benner, R., **M. A. Moran**, and R. E. Hodson. 1985. Effects of pH and plant source on lignocellulose biodegradation rates in two wetland ecosystems, the Okefenokee Swamp and a Georgia salt marsh. *Limnology and Oceanography* 30:489-499.
4. Benner, R., **M. A. Moran**, and R. E. Hodson. 1986. Biogeochemical cycling of lignocellulosic carbon in marine and freshwater systems: relative contributions of procaryotes and eucaryotes. *Limnology and Oceanography* 31:89-100.
5. Morris, W. F., P. L. Marks, C. L. Mohler, N. R. Rappaport, F. R. Wesley, and **M. A. Moran**. 1986. Seed dispersal and seedling emergence in an old field community in central New York (USA). *Oecologia* 70:92-99.
6. **Moran, M. A.**, A. E. Maccubbin, R. Benner, and R. E. Hodson. 1987. Dynamics of microbial biomass and activity in five habitats of the Okefenokee Swamp ecosystem. *Microbial Ecology* 14:203-214.
7. **Moran, M. A.**, T. Legovic, R. Benner, and R. E. Hodson. 1988. Carbon flow from lignocellulose: A simulation analysis of a detritus-based ecosystem. *Ecology* 69:1525-1536.
8. **Moran, M. A.**, and R. E. Hodson. 1989. Formation and bacterial utilization of dissolved organic carbon derived from detrital lignocellulose. *Limnology and Oceanography* 34:1034-1047.
9. **Moran, M. A.**, and R. E. Hodson. 1989. Bacterial production on vascular plant detritus: Relationship to plant biochemistry and weight loss. *Applied and Environmental Microbiology* 55:2178-2189.
10. **Moran, M. A.**, R. Benner, and R. E. Hodson. 1989. Kinetics of microbial decomposition of vascular plant detritus in two wetland ecosystems. *Oecologia* 79:158-167.
11. **Moran, M. A.**, and R. E. Hodson. 1990. Bacterial production on humic and nonhumic components of dissolved organic carbon. *Limnology and Oceanography* 35:1744-1756.
12. **Moran, M. A.** and R. E. Hodson. 1990. Contributions of degrading *Spartina alterniflora* lignocellulose to the dissolved organic carbon pool of a salt marsh. *Marine Ecology Progress Series* 62:161-168.
13. Lee, K.-H., **M. A. Moran**, R. Benner, and R. E. Hodson. 1990. Influence of soluble components of red mangrove (*Rhizophora mangle*) leaves on microbial decomposition of structural (lignocellulosic) leaf components in seawater. *Bulletin of Marine Science* 46:374-386.
14. **Moran, M. A.**, L. R. Pomeroy, E. S. Sheppard, L. P. Atkinson, and R. E. Hodson. 1991. Distribution of terrestrially-derived dissolved organic matter on the southeastern U.S. continental shelf. *Limnology and Oceanography* 36:1134-1149.

15. **Moran, M. A.**, R. J. Wicks, and R. E. Hodson. 1991. Export of dissolved organic matter from a mangrove swamp ecosystem: Evidence from natural fluorescence, dissolved lignin phenols, and bacterial secondary production. *Marine Ecology Progress Series* 76:175-184.
16. Wicks, R. J., **M. A. Moran**, and R. E. Hodson. 1991. Carbohydrate signatures of aquatic macrophytes and their dissolved degradation products determined by a sensitive high-performance ion chromatography method. *Applied and Environmental Microbiology* 57:3135-3143.
17. Bergbauer, M., **M. A. Moran**, and R. E. Hodson. 1992. Degradation of lignocellulose from a freshwater macrophyte by aero-aquatic fungi. *Microbial Ecology* 23:159-167
18. **Moran, M. A.**, and R. E. Hodson. 1992. Contributions of three subsystems of a freshwater marsh to total bacterial secondary production. *Microbial Ecology* 24:161-170.
19. Sobecky, P. A., M. A. Schell, **M. A. Moran**, and R. E. Hodson. 1992. Adaptation of model genetically engineered microorganisms to lake water: growth rate enhancements and plasmid loss. *Applied and Environmental Microbiology* 58:3630-3637.
20. **Moran, M. A.**, V. L. Torsvik, T. Torsvik, and R. E. Hodson. 1993. Direct extraction and purification of rRNA for ecological studies. *Applied and Environmental Microbiology* 59:915-918.
21. **Moran, M. A.**, and R. E. Hodson. 1994. Dissolved humic substances of vascular plant origin in a coastal marine environment. *Limnology and Oceanography* 39:762-771.
22. **Moran, M. A.**, and R. E. Hodson. 1994. Support of bacterioplankton production by dissolved humic substances from three marine environments. *Marine Ecology Progress Series* 110:241-247.
23. Wiebe, W. J., **M. A. Moran**, and R. E. Hodson. 1994. Preface. *Microbial Ecology* 28:111-112. (editors of special edition)
24. Newell, S. Y., **M. A. Moran**, R. J. Wicks, and R. E. Hodson. 1995. Productivities of microbial decomposers during early stages of decomposition of shoots of a freshwater sedge. *Freshwater Biology* 34:135-148.
25. **Moran, M. A.**, L. T. Rutherford, and R. E. Hodson. 1995. Evidence for indigenous *Streptomyces* populations in a marine environment based on a 16S rRNA probe. *Applied and Environmental Microbiology* 61:3695-3700.
26. Hodson, R. E., W. A. Dustman, R. P. Garg, and **M. A. Moran**. 1995. Prokaryotic *in situ* PCR: Visualization of microscale distribution of specific genes and gene

- products in prokaryotic communities. *Applied and Environmental Microbiology* 61:4074-4082.
27. Sobecky, P. A., M. A. Schell, **M. A. Moran**, and R. E. Hodson. 1996. Impact of a genetically engineered bacterium with enhanced alkaline phosphatase activity on marine phytoplankton communities. *Applied and Environmental Microbiology* 62:6-12.
  28. Bushaw, K. L., R. G. Zepp, M. A. Tarr, D. Schulz-Jander, R. A. Bourbonniere, R. E. Hodson, W. L. Miller, D. A. Bronk, and **M. A. Moran**. 1996. Photochemical release of biologically available nitrogen from aquatic dissolved organic matter. *Nature* 381:404-407.
  29. González, J. M. H., W. B. Whitman, R. E. Hodson, and **M. A. Moran**. 1996. Identifying numerically abundant culturable bacteria from complex communities: an example from a lignin enrichment culture. *Applied and Environmental Microbiology* 62:4433-4440.
  30. González, J. M., F. Mayer, **M. A. Moran**, R. E. Hodson, and W. B. Whitman. 1997. *Microbulbifer hydrolyticus* gen. nov., sp. nov., and *Marinobacterium georgiense* gen. nov., sp. nov., two marine bacteria from a lignin-rich pulp mill waste enrichment community. *International Journal of Systematic Bacteriology* 47:369-376.
  31. Bano, N., **M. A. Moran**, and R. E. Hodson. 1997. Bacterial utilization of dissolved humic substances from a freshwater swamp. *Aquatic Microbial Ecology* 12:233-238.
  32. **Moran, M. A.** and R. G. Zepp. 1997. Role of photoreactions in the formation of biologically labile compounds from dissolved organic matter. *Limnology and Oceanography* 42:1307-1316.
  33. González, J. M., F. Mayer, **M. A. Moran**, R. E. Hodson, and W. B. Whitman. 1997. *Sagittula stellata* gen. nov., sp. nov., a lignin-transforming bacterium from a coastal environment. *International Journal of Systematic Bacteriology* 47:773-780.
  34. Miller, W. L., and **M. A. Moran**. 1997. Interaction of photochemical and microbial processes in the degradation of refractory dissolved organic matter from a coastal marine environment. *Limnology and Oceanography* 42:1317-1324.
  35. González, J. M., and **M. A. Moran**. 1997. Numerical dominance of a group of marine bacteria in the  $\alpha$ -subclass of Proteobacteria in coastal seawater. *Applied and Environmental Microbiology* 63:4237-4242.
  36. Chen, F., J. M. González, W. A. Dustman, **M. A. Moran**, and R. E. Hodson. 1997. *In situ* reverse transcriptase: an approach to characterize genetic diversity and activity of prokaryotes. *Applied and Environmental Microbiology* 63:4907-4913.

37. Hopkinson, C., I. Buffam, J. Hobbie, J. Vallino, R. Hodson, **M. A. Moran**, J. Covert, E. Smith, J. Baross, B. Crump, B. Eversmeyer, F. Prahl, M. Perdue, S. Findlay, and K. Foreman. 1998. Terrestrial inputs of organic matter to coastal ecosystems: an intercomparison of chemical characteristics and bioavailability. *Biogeochemistry* 43:211-234.
38. Bano, N., **M. A. Moran**, and R. E. Hodson. 1998. Photochemical formation of labile organic matter from two components of dissolved organic carbon in a freshwater wetland. *Aquatic Microbial Ecology* 16:95-102.
39. **Moran, M. A.**, W. M. Sheldon, and J. E. Sheldon. 1999. Biodegradation of riverine dissolved organic carbon in five estuaries of the Southeastern United States. *Estuaries* 22:55-64.
40. Cai, W.-J., L. R. Pomeroy, **M. A. Moran**, and Y. Wang. 1999. Oxygen and carbon dioxide mass balance for the estuarine/intertidal marsh complex of five rivers in the southeastern U.S. *Limnology and Oceanography* 44:639-649.
41. Wiegert, R. G., M. Alber, J. O. Blanton, A. Chalmers, R. E. Hodson, **M. A. Moran**, L. R. Pomeroy, and W. J. Wiebe. 1999. The Georgia Rivers Land Margin Ecosystem Research Program. *Limnologica* 29:286-292.
42. Bushaw-Newton, K. and **M. A. Moran**. 1999. Photochemical formation of biologically available nitrogen from dissolved humic substances in coastal marine environments. *Aquatic Microbial Ecology* 18:285-292.
43. González, J. M., R. P. Kiene, and **M. A. Moran**. 1999. Transformation of sulfur by an abundant lineage of marine bacteria in the  $\alpha$ -subclass of the Proteobacteria. *Applied and Environmental Microbiology* 65:3810-3819.
44. González, J. M., R. E. Hodson, and **M. A. Moran**. 1999. Bacterial populations in replicate marine enrichment cultures: assessing variability in abundance using 16S rRNA-based probes. *Hydrobiologia* 401:69-75.
45. Kiene, R. P., L. J. Linn, J. González, **M. A. Moran**, and J. A. Bruton. 1999. Dimethylsulfoniopropionate and methanethiol are important precursors of methionine and protein-sulfur in marine bacterioplankton. *Applied and Environmental Microbiology* 65:4549-4558.
46. **Moran, M. A.**, W. M. Sheldon, and R. G. Zepp. 2000. Carbon loss and optical property changes during long-term photochemical and biological degradation of estuarine dissolved organic matter. *Limnology and Oceanography* 45:1254-1264.
47. González, J. M., R. Simó, R. Massana, J. S. Covert, E. O Casamayor, C. Pedrós-Alió, and **M. A. Moran**. 2000. Bacterial community structure associated with a dimethylsulfoniopropionate-producing North Atlantic algal bloom. *Applied and Environmental Microbiology* 66:4237-4246.

48. Buchan, A., L. S. Collier, E. L. Neidle, and **M. A. Moran**. 2000. Key aromatic-ring-cleaving enzyme, protocatechuate 3,4-dioxygenase, in the ecologically important marine *Roseobacter* lineage. *Applied and Environmental Microbiology* 66:4662-4672.
49. Esham, E. C., W. Ye, and **M. A. Moran**. 2000. Identification and characterization of humic substances-degrading bacterial isolates from an estuarine environment. *FEMS Microbiology Ecology* 1174:1-9.
50. Covert, J. S. and **M. A. Moran**. 2001. Molecular characterization of estuarine bacterial communities that use high- and low-molecular weight fractions of dissolved organic carbon. *Aquatic Microbial Ecology* 25:127-139.
51. Buchan, A., E. L. Neidle, and **M. A. Moran**. 2001. Diversity of ring-cleaving dioxygenase gene *pcaH* in a salt marsh bacterial community. *Applied and Environmental Microbiology* 67:5801-5809.
52. Buchan, A., S. Y. Newell, J. I. L. Moreta, and **M. A. Moran**. 2002. Analysis of internal transcribed spacer (ITS) regions of rRNA genes in fungal communities of a southeastern U.S. salt marsh. *Microbial Ecology* 43: 329-340.
53. Miller, W. L., **M. A. Moran**, W. M. Sheldon, R. G. Zepp, and S. Opsahl. 2002. Determination of apparent quantum yield spectra for the formation of biologically labile photoproducts. *Limnology and Oceanography* 47: 343-352.
54. Hardwick, E. O., W. Ye, **M. A. Moran**, and R. E. Hodson. 2003. Temporal dynamics of three culturable  $\gamma$ -*Proteobacteria* taxa in salt marsh sediments. *Aquatic Ecology* 37:55-64.
55. Stepanauskas, R., **M. A. Moran**, B. Bergamaschi, and J. T. Hollibaugh. 2003. Covariance of bacterioplankton composition and water chemistry in a temperate delta estuary. *Aquatic Microbial Ecology* 31:85-98.
56. Lyons, J. I., S. Y. Newell, A. Buchan, and **M. A. Moran**. 2003. Diversity of ascomycete laccase gene sequences in a southeastern U.S. salt marsh. *Microbial Ecology* 45:270-281.
57. **Moran, M. A.**, J. M. González, and R. P. Kiene. 2003. Linking a bacterial taxon to sulfur cycling in the sea: studies of the marine *Roseobacter* group. *Geomicrobiology Journal* 20:375-388.
58. González, J. M., J. S. Covert, W. B. Whitman, J. Henriksen, F. Mayer, B. Scharf, R. Schmitt, A. Buchan, J. A. Fuhrman, R. P. Kiene, and **M. A. Moran**. 2003. *Silicibacter pomeroyi* sp. nov. and *Roseovarius nubinhibens* sp. nov., DMSP demethylating bacteria from marine environments. *International Journal of Systematic and Evolutionary Microbiology* 53:1261-1269.

59. Buchan, A., S. Y. Newell, M. Butler, E. J. Biers, J. T. Hollibaugh, and **M. A. Moran**. 2003. Dynamics of bacterial and fungal communities on decaying salt marsh grass. *Applied and Environmental Microbiology* 69:6676-6687.
60. Buchan, A., E. L. Neidle, and **M. A. Moran**. 2004. Diverse organization of genes of the  $\beta$ -ketoacid pathway in members of the marine *Roseobacter* lineage. *Applied and Environmental Microbiology* 70: 1658-1668.
61. Zepp, R. G., W. M. Sheldon, and **M. A. Moran**. 2004. Dissolved organic fluorophores in southeastern U.S. coastal waters: Correction method for eliminating Rayleigh and Raman scattering peaks in excitation-emission matrices. *Marine Chemistry* 89:15-36.
62. Vila, M., R. Simó, R. P. Kiene, J. Pinhassi, J. M. González, **M. A. Moran**, C. Pedrós-Alió. 2004. Dimethylsulfoniopropionate incorporation by marine bacterioplankton taxa studied by microautoradiography combined with fluorescence in situ hybridization. *Applied and Environmental Microbiology* 70:4648-4657.
63. Chen, R. F., P. Bissett, P. Coble, R. Conmy, G. B. Gardner, **M. A. Moran**, X. Wang, M. L. Wells, P. Whelan, and R. G. Zepp. 2004. Chromophoric Dissolved Organic Matter (CDOM) Source Characterization in the Louisiana Bight. *Marine Chemistry* 89:257-272.
64. **Moran, M. A.**, A. Buchan, J. M. González, J. F. Heidelberg, W. B. Whitman, R. P. Kiene, J. R. Henriksen, G. M. King, R. Belas, C. Fuqua, L. Brinkac, M. Lewis, S. Johri, B. Weaver, G. Pai, J. A. Eisen, E. Rahe, W. M. Sheldon, W. Ye, T. R. Miller, J. Carlton, D. A. Rasko, I. T. Paulsen, Q. Ren, S. C. Daugherty, R. T. Deboy, R. J. Dodson, A. S. Durkin, R. Madupu, W. C. Nelson, S. A. Sullivan, M. J. Rosovitz, D. H. Haft, J. Selengut, and N. Ward. 2004. Genome sequence of *Silicibacter pomeroyi* reveals adaptations to the marine environment. *Nature* 432:910-913.
65. Mou, X., **M. A. Moran**, R. Stepanauskas, J. M. González and R. E. Hodson. 2005. Culture-independent identification of bacterioplankton involved in DMSP transformations by flow cytometric cell sorting and subsequent molecular analyses. *Applied and Environmental Microbiology* 71:1405-1416.
66. Poretsky, R. S., N. Bano, A. Buchan, G. LeCleir, J. Kleikemper, M. Pickering, W. M. Pate, **M. A. Moran**, and J. T. Hollibaugh. 2005. Analysis of microbial gene transcripts in environmental samples. *Applied and Environmental Microbiology* 71: 4121-4126.
67. Stepanauskas, R., **M. A. Moran**, B. A. Bergamaschi, and J. T. Hollibaugh. 2005. Sources, bioavailability, and photoreactivity of dissolved organic carbon in the Sacramento-San Joaquin River Delta. *Biogeochemistry* 74: 131-149.
68. Buchan, A., J. M. González, and **M. A. Moran**. 2005. An overview of the marine *Roseobacter* lineage. *Applied and Environmental Microbiology* 71: 5665-5677.



69. Lyons, J. I., S. Y. Newell, R. P. Brown, and **M. A. Moran**. 2005. Screening for bacteria-fungal associations in a south-eastern US salt marsh using pre-established fungal monocultures. *FEMS Microbiology Ecology* 54:179-187.
70. Shank, G. C., R. G. Zepp, R. F. Whitehead, and **M. A. Moran**. 2005. Variations in the spectral properties of freshwater and estuarine CDOM caused by partitioning onto river and estuarine sediments. *Estuarine and Coastal Shelf Science* 65:289-301.
71. Pinhassi, J., R. Simó, J. M. González, M. Vila, L. Alonso-Sáez, R. P. Kiene, **M. A. Moran**, and C. Pedrós-Alio. 2005. Dimethylsulfoniopropionate turnover linked to the composition and dynamics of the bacterioplankton assemblage during a microcosm phytoplankton bloom. *Applied and Environmental Microbiology* 71: 7650-7660.
72. Howard, E. C., J. R. Henriksen, A. Buchan, C. R. Reisch, H. Bürgmann, R. Welsh, W. Ye, J. M. González, K. Mace, S. B. Joye, R. P. Kiene, W. B. Whitman, and **M. A. Moran**. 2006. Bacterial taxa that limit sulfur flux from the ocean. *Science* 314:649-652.
73. LeClerc, G. R., A. Buchan, J. Maurer, **M. A. Moran**, J. T. Hollibaugh. 2007. Comparison of chitinolytic enzymes from an alkaline hypersaline lake and an estuary. *Environ. Microbiol.* 9: 197–205.
74. Biers, E. J., R. G. Zepp, and **M. A. Moran**. 2007. The role of nitrogen in chromophoric and fluorescent dissolved organic matter formation. *Marine Chemistry* 103:46–60.
75. Mou, X., R. E. Hodson, **M. A. Moran**. 2007. Bacterioplankton assemblages transforming dissolved organic compounds in coastal seawater. *Environmental Microbiology* 9:2025–2037. doi:10.1111/j.1462-2920.2007.01318.x
76. Dong, Y., **M. A. Moran**, and S. Guerrero. 2007. Exploring marine bacterial diversity in coastal Georgia salt marshes using DNA technology. *The American Biology Teacher* 70:279-283.
77. **Moran, M. A.**, R. Belas, M. A. Schell, J. M. González, F. Sun, S. Sun, B. J. Binder, J. Edmonds, W. Ye, B. Orcutt, E. C. Howard, C. Meile, W. Palefsky, A. Goesmann, Q. Ren, I. Paulsen, L. E. Ulrich, L. S. Thompson, E. Saunders, and A. Buchan. 2007. Ecological genomics of marine roseobacters. *Applied and Environmental Microbiology* 73:4559-4569.
78. **Moran, M. A.** and E. V. Armbrust. 2007. Genomes of sea microbes. In: A Sea of Microbes. *The Oceanography Society Journal*. L. Proctor and D. Karl, issue editors. June 2007, pp. 47-55.
79. Bürgmann, H., E. C. Howard, W. Ye, F. Sun, S. Sun, S. Napierala, and **M. A. Moran**. 2007. Transcriptional response of *Silicibacter pomeroyi* DSS-3 to dimethylsulfoniopropionate (DMSP). *Environmental Microbiology* 9:2742-2755.

80. **Moran, M. A.** and W. L. Miller. 2007. Resourceful heterotrophs make the most of light in the coastal ocean. *Nature Reviews Microbiology* 5:792-800.
81. Edmonds, J. W., N. B. Weston, S. B. Joye, and **M. A. Moran**. 2008. Variation in prokaryotic community composition as a function of resource availability in tidal creek sediments. *Applied and Environmental Microbiology* 74: 1836-1844.
82. Mou, X., S. Sun, R. A. Edwards, R. E. Hodson, and **M. A. Moran**. 2008. Bacterial carbon processing by generalist species in the coastal ocean. *Nature* 451:708-711.
83. Garrity, G. M., D. Field, N. Kyrpides, L. Hirschman, S.-A. Sansone, S. Angiuoli, J. R. Cole, F. O. Glöckner, E. Kolker, G. Kowalchuk, **M. A. Moran**, D. Ussery, and O. White. 2008. Toward a standards-compliant genomic and metagenomic publication record. *OMICS* 12: 157-160.
84. Dinsdale, E. A., R. A. Edwards, D. Hall, F. Angly, M. Breitbart, J. M. Brulc, M. Furlan, C. Desnues, M. Haynes, L. Li, L. McDaniel, **M. A. Moran**, K. E. Nelson, C. Nilsson, R. Olson, J. Paul, B. Rodriguez Brito, Y. Ruan, B. K. Swan, R. Stevens, D. L. Valentine, R. Vega-Thurber, L. Wegley, B. A. White, and F. Rohwer. 2008. Functional metagenomic profiling of nine biomes. *Nature* 452: 629 – 632.
85. Biers, E. J., K. Wang, C. Pennington, R. Belas, F. Chen, and **M. A. Moran**. 2008. Occurrence and expression of Gene Transfer Agent (GTA) genes in marine bacterioplankton. *Applied and Environmental Microbiology* 74:2933-2939.
86. Howard, E. C., S. Sun, E. J. Biers, and **M. A. Moran**. 2008. Abundant and diverse bacteria involved in DMS degradation in marine surface waters. *Environmental Microbiology* 74: 2933-2939.
87. Reisch, C. R., **M. A. Moran**, and W. B. Whitman. 2009. Dimethylsulfoniopropionate- dependent demethylase (DmdA) from *Pelagibacter ubique* and *Silicibacter pomeroyi*. *Journal of Bacteriology* 190:8018-8024.
88. Poretsky, R. S., S. Gifford, J. Rinta-Kanto, M. Vila-Costa, and **M. A. Moran**. 2009. Analyzing gene expression from marine microbial communities using environmental transcriptomics. *Journal of Visualized Experiments*. doi: 10.3791/1086.
89. **Moran, M. A.** 2009. Experimental community ‘omics. *Environmental Microbiology Reports*. 1:3–26. doi:10.1111/j.1758-2229.2008.00010.x.
90. Lasher, C., G. Dyszynski, K. Everett, J. Edmonds, W. Ye, W. Sheldon, S. Wang, S. B. Joye, **M. A. Moran**, and W. B. Whitman. 2009. The diverse bacterial community in intertidal, anaerobic sediments at Sapelo Island, Georgia. *Microbial Ecology* 58:244-261.

91. Poretsky, R. S., I. Hewson, S. Sun, A. E. Allen, J. P. Zehr, and **M. A. Moran**. 2009. Comparative day/night metatranscriptomic analysis of microbial communities in the North Pacific Subtropical Gyre. *Environmental Microbiology* 11:1358 - 1375.
92. Hewson, I., R. S. Poretsky, R. A. Beinart, A. E. White, T. Shi, S. R. Bench, P. H. Moisaner, R. W. Paerl, H. J. Tripp, J. P. Montoya, **M. A. Moran**, and J. P. Zehr. 2009. In situ transcriptomic analysis of the globally important keystone N<sub>2</sub>-fixing taxon *Crocospaera watsonii*. *The ISME Journal* 3:618-631.
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- Sawakuchi, N. D. Ward, B. C. Crump. 2017. Bacterial biogeography across the Amazon river-ocean continuum. *Frontiers in Microbiology* 8:882.
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## TEACHING

### Courses Taught:

- 1989-2013. Microbial Ecology (MARS 4620/6620). Graduate/advanced undergraduate course in the ecology of marine microorganisms (co-taught with M. Joye).
- 1992-2005. Hydrobiology Seminar (MARS 8130). Graduate seminar course in current topics in biological oceanography. Course responsibility, 100%.
- 2003, 2005, 2008, 2012. Marine Ecological Genomics (MARS 8180). Graduate course on ecological analysis and annotation of marine bacterial genomes. Course responsibility, 100%.
2011. Synthesis Skills in Marine Sciences (MARS 8190). Graduate seminar course in career-building skills for writing and presentation. Course responsibility, 100%.
- 1995-2016. Marine Biology (MARS 3450). Undergraduate course in the biology of marine organisms and ecosystems. Course responsibility, 100%.
- 2015, 2016. Coastal Summer Semester (MARS4500, MARS4510). Undergraduate course in field methods in marine biology and oceanography. Course responsibility, 60%.

### Students and Post-Doctoral Associates Advised:

#### Graduate Students:

- Karen L. Bushaw-Newton. Ph.D. Institute of Ecology. 1998  
 E. Cartier Esham, Ph.D. Department of Microbiology. 2000  
 Alison Buchan, Ph.D. Department of Marine Sciences. 2001  
 Justine Lyons, M.S. Department of Marine Sciences. 2002  
 Rachel Poretsky, Ph.D. Department of Marine Sciences. 2008

Erinn C. Howard, Ph.D. Department of Microbiology. 2008  
Scott Gifford, Ph.D. Department of Marine Sciences. 2011  
Vanessa Varaljay. Ph.D. Department of Microbiology. 2012  
Bryndan Durham, Ph.D. candidate. Department of Microbiology. 2014  
Brandon Satinsky, Ph.D. candidate. Department of Microbiology. 2014  
Brent Nowinski, Ph.D. candidate. Department of Marine Sciences (matriculated 2013)  
Frank Ferrer-Gonzalez, Ph.D. candidate, Department of Marine Sciences (matriculated 2015)  
Courtney Thomas, M.S. candidate, Department of Marine Sciences (matriculated 2015)

Current Graduate Committee Service for:

14 Ph.D. and M.S. students in the Departments of Marine Sciences, Microbiology, Plant Biology, Entomology, and Crop and Soil Sciences, University of Georgia; Department of Marine Sciences, University of Santa Cruz.

Postdoctoral Advisees:

Dr. Richard J. Wicks, 1988-1990	Dr. Johanna Rinta-Kanto, 2007-2010
Dr. Nasreen Bano, 1993-1997	Dr. Maria Vila-Costa, 2007-2009
Dr. Ram Garg, 1994-1995	Dr. Ryan Newton, 2008-2010
Dr. Feng Chen, 1995-1996	Dr. Leon-Keat Chan, 2009-2011
Dr. José González, 1996-2000	Dr. Adam Rivers, 2009-2014
Dr. R. Stepanauskas, 2000-2003	Dr. Haiwei Luo, 2010-2014
Dr. Alison Buchan, 2002	Dr. Jun Meng, 2010-2013
Dr. Jennifer Edmonds, 2004-2007	Dr. Andrew Burns, 2012 – 2016
Dr. Helmut Bürgmann, 2005-2006	Dr. Marine Landa, 2014 – present
Dr. Xiaozhen Mou, 2006-2008	Dr. Alex Vorobev, 2014 – present