

CURRICULUM VITAE

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ACADEMIC HISTORY

Education

Ph.D. University of South Florida, Dept. of Marine Science, 1999
B.A. New College of Florida, 1994
Major: Biology with concentration in Marine Biology

Academic positions

- *Professor* Dept of Environmental Health Science, University of Georgia (2014 – present)
- *Associate Professor* Dept of Environmental Health Science, University of Georgia (2007 – 2014)
- *Assistant Professor* Dept of Environmental Health Science, University of Georgia (2002 – 2007)
- *Research Associate* Ctr. of Marine Biotech., University of MD; Advisor: Dr. Rita R. Colwell (2000 –2002)
- *Post-Doctoral Fellow* Marine Science, University of South Florida; Advisor: Dr. Joan B. Rose (1999 –2000)
- *Instructor* Dept of Natural Sciences, St. Petersburg Junior College (1999)

Other professional appointments

- *Associate Dean for Academic Affairs* College of Public Health, University of Georgia (2019 – present)
- *Adjunct faculty* (courtesy appointment) Odum School of Ecology, University of Georgia (2004 – present)
- *Adjunct faculty* (courtesy appointment) Dept. of Marine Science, University of Georgia (2008 – present)
- *Adjunct faculty* (courtesy appointment) Dept. of Microbiology, University of Georgia (2012 – present)
- *Faculty member* Interdisciplinary Toxicology Program, University of Georgia (2004 – 2014)

CONTRIBUTIONS TO RESEARCH, SCHOLARSHIP AND OTHER CREATIVE ACTIVITIES

A. AREAS IN WHICH RESEARCH IS BEING CONDUCTED

Dr. Lipp's research focus is the ecology of human pathogens in ambient waters and the role of environmental exposures in waterborne disease transmission. Her research incorporates molecular biology, microbial ecology, epidemiology and climate research to better understand the fate of bacteria and viruses introduced from wastewater to aquatic environments and their potential for transmission to humans and other hosts.

B. PUBLICATIONS

Articles in peer-refereed journals († senior/corresponding author)

1. Borchardt, T., K.V. Fisher, A.M. Ebling, J.R. Westrich*, P. Xian, C.D. Holmes, W.M. Landing, **E.K. Lipp**, M.S. Wetz, E.A. Ottesen†. **2019**. In situ impacts of Saharan dust deposition on iron, nutrients, and marine microbes in near-shore, subtropical Western Atlantic surface waters. *Limnology & Oceanography* doi.org/10.1002/lno.11291
2. Elledge, N. R. Eytan, L. Pinnell, R. Pray, J.L. Joyner*, J. Wares, K.P. Sutherland, **E.K. Lipp**, J.W. Turner, **2019**. Draft genome sequences of 38 *Serratia marcescens* isolates associated with acroporid serratiosis. *Microbial Resource Announcements* 8:e00194-19. doi.org/10.1128/MRA.00194-19
3. Brown, A., **E.K. Lipp**, C.W. Osenberg†. **2019**. Algae dictate multiple stressor effects on coral microbiomes. *Coral Reefs* 1-12. doi.org/10.1007/s00338-019-01769-w

4. Becker, D.J., C.S. Teitelbaum, M.H. Muray, S.E. Curry, C.N. Welch, T. Ellison, H.C. Adams, R.S. Rozier*, **E.K. Lipp**, S.M. Hernandez, S. Altizer, R.J. Hall†. **2018**. Assessing the contributions of intraspecific and environmental sources of infection in urban wildlife: *Salmonella enterica* and white ibis as a case study. *Journal of the Royal Society Interface* 15: 20180654. doi.org/10.1098/rsif.2018.0654
5. Schuerger, A.C.†, D.J. Smith, D.W. Griffin, D. Jaffe, B. Wawrick, S.M. Burrows, B.C. Christner, C. Gonzalez-Martin, **E.K. Lipp**, D.G. Schmale, H. Yu. **2018**. Science questions and knowledge gaps to characterize microbial transport and survival in Asian and African dust plumes reaching North America. *Aerobiologia* 18: 425 – 435. doi.org/10.1007/s10453-018-9541-
6. Lydon, K.A.*†, **E.K. Lipp**†. **2018**. Taxonomic annotation errors incorrectly assign the family Pseudoalteromonadaceae to the order Vibrionales in Greengenes: Implications for microbial community assessments. *Peer J* 6: e5248. DOI 10.7717/peerj.5248
7. Lydon, K.A.*, M.J. Robertson*, **E.K. Lipp**†. **2018**. Patterns of triclosan resistance in Vibrionaceae. *Peer J* 6: e5170; DOI 10.7717/peerj.5170.
8. Wang, S., K.A. Lydon*, E. White, J. Grubbs, **E.K. Lipp**, J. Locklin J. Jambeck†. **2018**. Biodegradation of polyhydroxyalkanoate (PHA) plastic under anaerobic sludge and aerobic seawater conditions. *Environmental Science and Technology* 52(10): 5700 – 5709.
9. Oladeinde, A.*, **E.K. Lipp**, C. Ying Chen, R. Muirhead, T. Glenn, K. Cook, M. Molina†. **2018**. Transcriptome changes in *Escherichia coli*, *Enterococcus faecalis* and *Escherichia coli* O157:H7 laboratory strains in response to photo-degraded DOM. *Frontiers in Microbiology* 9: 882.
10. Westrich, J.R.*, D.W. Griffin, D.L. Westphal, **E.K. Lipp**†. **2018**. *Vibrio* population dynamics in mid-Atlantic surface waters during Saharan dust events. *Frontiers in Marine Science* 5:12. doi: 10.3389/fmars.2018.00012
11. Kemp, K.M.*, J.R. Westrich*, M.S. Alabady, M.E. Edwards*, **E.K. Lipp**†. **2018**. Diversity and abundance of *Vibrio* associated with diseased elkhorn coral, *Acropora palmata*, of the Florida Keys. *Applied and Environmental Microbiology* 84 (2): e01035-17 [Cover article for issue]
12. Lydon, K.A.*, D.A. Glinksi, J.R. Westrich*, W.M. Henderson, and **E.K. Lipp**†. **2017**. Effects of triclosan on bacterial community composition and *Vibrio* populations in natural seawater microcosms. *Elementa* 5 (Special Issue: *Oceans and human health in a changing environment*). <http://doi.org/10.1525/elementa.141>
13. Hernandez, S.M. †, C.N. Welch, V.E. Peters, **E.K. Lipp**, S. Curry, M.J. Yabsley, S. Sanchez, A. Presotto, P. Gerner-Smidt, K. Hise. **2016**. Urbanized white ibises (*Eudocimus albus*) as carriers of *Salmonella enterica* of significance to public health and wildlife. *PLoS One* 10 (11): e0164402
14. Westrich, J.W.*, A.M. Ebling, W.M. Landing, J.L. Joyner*, D.W. Griffin, and **E.K. Lipp**†. **2016**. Saharan dust nutrients promote *Vibrio* bloom formation in marine surface waters. *Proceedings of the National Academy of Sciences* 113: 5964 – 5969.
15. Sutherland, K.P. †, B. Berry, A. Park, D.W. Kemp, K.M. Kemp*, **E.K. Lipp**, and J.W. Porter. **2016**. Coral disease etiologies as moving targets: a 20-year case study of white pox disease affecting *Acropora palmata* in the Florida Keys, 1994 – 2004. *Philosophical Transactions of the Royal Society B* 371: 20150205; DOI: 10.1098/rstb.2015.0205
16. Kemp, D.W.*, K.M. Kemp*, A. Rivers, **E.K. Lipp**, J.W. Porter, and J. Wares†. **2015**. Spatial homogeneity of microbial communities associated within the surface mucus layer of the reef-building coral *Acropora palmata*. *PLoS One* 10 (12): e0143790
17. Hasan, N., C.J. Grim, **E.K. Lipp**, I.N.G. Rivera, J. Chun, B.J. Haley, E. Taviani, S.Y. Choi, M. Hoq, C. Munk, T.S. Brettin, D. Bruse, J.F. Challacombe, C. Detter, C.S. Han, J.A. Eisen, A. Huq, and R.R. Colwell. **2015**. Deep-sea hydrothermal vent bacteria related to human pathogenic *Vibrio* species. *Proc Natl Acad Sci* 112: E2813-E2819.
18. Maurer, J., G. Martin*, S. Hernandez, Y. Cheng, P. Gerner-Smidt, K.B. Hise, M. Tobin D'Angelo. D. Cole, S. Sanchez, M. Madden, S. Valeika, A. Presotto, and **E.K. Lipp**†. **2015**. Diversity and persistence of *Salmonella enterica* strains in rural landscapes in the southeastern United States. *PLoS One* 10(7): e0128937

19. Joyner, J.L.*, K.P. Sutherland, D. Kemp, B. Berry, A. Griffin, J.W. Porter, M.B. Amador, H.K.G. Noren and **E.K. Lipp**†. **2015**. Systematic analysis of white pox disease in *Acropora palmata* of the Florida Keys and the role of *Serratia marcescens*. *Applied and Environmental Microbiology* 81: 4451-5547. [Cover article for issue 13]
20. Turner, J.T.*, L. Malayil*, D. Guadagnoli, D. Cole and **E.K. Lipp**†. **2014**. Detection of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae* with respect to seasonal fluctuations in temperature and plankton abundance. *Environmental Microbiology* 16: 1019 – 1028.
21. Joyner, J.L.*, D. Wanless, C. Sinigalliano and **E.K. Lipp**†. **2014**. Direct Detection of *Serratia marcescens* in the environment using quantitative real time PCR. *Applied and Environmental Microbiology* 80: 1679-1683.
22. Vereen, E.*, R.R. Lowrance, M.B. Jenkins, P. Adams, S. Rajeev, **E.K. Lipp**†. **2013**. Landscape and seasonal factors influence *Salmonella* and *Campylobacter* prevalence in a rural mixed use watershed. *Water Research* 47: 6075 – 6085.
23. Gonzalez Astudillo V., S. Hernandez†, S.L. Boone, **E.K. Lipp**, S. Shersttra, M.J. Yabsley. **2013**. Spatial, temporal and intraspecific differences of haemoparasite infection and relevant selected physiological parameters of wild birds in Georgia, USA. *International Journal for Parasitology: Parasites and Wildlife* 2: 178 - 189.
24. Mote, B.K.*, J.W. Turner* and **E.K. Lipp**†. **2012**. Persistence and growth of the fecal indicator bacteria, enterococci, in natural estuarine plankton communities. *Applied and Environmental Microbiology* 78(8): 2569 – 2577.
25. Futch, J.C.*, D.W. Griffin, K. Banks and **E.K. Lipp**†. **2011**. Evaluation of sewage source and fate on Southeast Florida coastal reefs. *Marine Pollution Bulletin* 62 (11): 2308 – 2316.
26. Sutherland, K.P., S. Shaban, J.L. Joyner*, J.W. Porter and **E.K. Lipp**. **2011**. Human pathogen shown to cause disease in the threatened elkhorn coral *Acropora palmata*. *PLoS One* 6(8): e23468.
27. Malayil, L.*, J.W. Turner*, K. Howe*, B. L. Mote* and **E.K. Lipp**†. **2011**. Evaluation of enrichment media for improved PCR-based detection of *V. cholerae* and *V. vulnificus* from estuarine water and plankton. *Journal of Applied Microbiology* 110: 1470 – 1475.
28. Looney, E.*, K. P. Sutherland and **E.K. Lipp**†. **2010**. Effects of temperature, nutrients, organic matter and coral mucus on the survival of the coral pathogen, *Serratia marcescens*, PDL100. *Environmental Microbiology* 12(9): 2479 - 2485.
29. Sutherland, K.P., J.W. Porter, J.W. Turner*, B.J. Thomas, E.E. Looney*, T. Luna, M.K. Meyers, J.C. Futch* and **E.K. Lipp**. **2010**. Human sewage identified as likely source of white pox disease of the threatened Caribbean elkhorn coral, *Acropora palmata*. *Environmental Microbiology* 12(5): 1122 - 1131.
30. Futch, J.C.*, D.W. Griffin and **E.K. Lipp**†. **2010**. Human enteric viruses in groundwater indicate offshore transport of human sewage to coral reefs of the Upper Florida Keys. *Environmental Microbiology* 12: 964 – 974.
31. Gentry, J.B.*, J. Vinjé, D. Guadagnoli and **E.K. Lipp**†. **2009**. Norovirus distribution within an estuarine environment. *Applied and Environmental Microbiology* 75 (17): 5474 - 5480.
32. Turner, J.W.*, B. Good, D. Cole and **E.K. Lipp**†. **2009**. Environmental factors affect the status of plankton as a reservoir for *Vibrio* species. *The ISME (International Society for Microbial Ecology) Journal* 3: 1082 – 1092.
33. Krediet, C.J., K.B. Ritchie, M. Cohen, **E.K. Lipp**, K.P. Sutherland and M. Teplitski†. **2009**. Utilization of mucus from the coral *Acropora palmata* by the pathogen *Serratia marcescens* and by environmental and coral commensal bacteria. *Applied and Environmental Microbiology* 75: 3851 – 3858.
34. Ebi K.L.†, J. Balbus, P. Kinney, **E. Lipp**, D. Mill, M. O’Neill, and M. Wilson. **2009**. U.S. Funding of the human health impacts of and public health responses to climate variability and change is insufficient. *Environmental Health Perspectives* 117: 857 – 862.
35. Haley, B.J.*, D. Cole and **E.K. Lipp**†. **2009**. Distribution, diversity and seasonality of waterborne Salmonellae in a rural watershed. *Applied and Environmental Microbiology* 75(5) 1248 - 1255.

36. Gentry, J.B.*, J. Vinjé and **E.K. Lipp**†. **2009**. Rapid and efficient quantitation of genogroups I and II norovirus from oysters and other complex environmental samples. *Journal of Virological Methods* 156: 58 – 65.
37. **Lipp, E.K.**†, Futch, J.C.* and D.W. Griffin. **2007**. Analysis of multiple enteric viral targets as sewage markers in coral reefs. *Marine Pollution Bulletin* 54: 1897-1902.
38. Vereen, E.*, R.R. Lowrance, D.J. Cole and **E.K. Lipp**†. **2007**. Fate and ecology of campylobacters in coastal plain streams (Georgia, United States of America). *Applied and Environmental Microbiology* 73: 1395 – 1403.
39. Fong, T.T.* and **E. K. Lipp**†. **2005**. Enteric viruses of humans and animals in aquatic environments: health risks, detection and potential water quality assessment tools. *Microbiology and Molecular Biology Reviews* 69 (2): 357-371.
40. Fong, T.T.*, D.W. Griffin and **E.K. Lipp**†. **2005**. Molecular assays for targeting human and bovine enteric viruses in coastal waters and application for library-independent source tracking. *Applied and Environmental Microbiology* 71 (4): 2070-2078.
41. **Lipp, E.K.** † and D.W. Griffin. **2004**. Analysis of coral mucus as an improved medium for detection of enteric microbes and for determining patterns of sewage contamination in reef environments. *EcoHealth* 1: 317-323.
42. Gil, A.I., V. Louis, I.N.G. Rivera, **E.K. Lipp**, A. Huq, C.F. Lanata, D.N. Taylor, E. Russek-Cohen, N. Choopun, R. Bradley Sack and R.R. Colwell†. **2004**. Occurrence and distribution of *Vibrio cholerae* in the coastal environment of Peru. *Environmental Microbiology* 6: 699-706.
43. Espeland, E.M., **E.K. Lipp**†, A. Huq and R.R. Colwell. **2004**. Polylysogeny and prophage induction by secondary infection in *Vibrio cholerae*. *Environmental Microbiology* 6: 760-763
44. Wetz, J.J., **E.K. Lipp**†, D.W. Griffin, J. Lukasik, D. Wait, M.D. Sobsey, T.M. Scott and J.B. Rose. **2004**. Presence, infectivity and stability of enteric viruses in seawater: relationship to marine water quality in the Florida Keys. *Marine Pollution Bulletin* 48: 700-706.
45. Rivera, I.N.G., **E.K. Lipp**, N. Choopun, A. Huq, and R. R. Colwell†. **2003**. Method for DNA extraction and application of multiplex PCR to detect toxigenic *V. cholerae* O1 and O139 from aquatic ecosystems. *Environmental Microbiology* 5: 599-606.
46. **Lipp, E.K.**†, I.N.G. Rivera, A.I. Gil, E.M. Espeland, N. Choopun, V. Louis, E. Russek-Cohen, A. Huq, and R.R. Colwell. **2003**. Direct detection of *Vibrio cholerae* and *ctxA* in Peruvian coastal waters and plankton by PCR. *Applied and Environmental Microbiology* 69: 3676-3680.
47. Talledo, M., I.N.G. Rivera, **E.K. Lipp**, A. Neale, D.K.R. Karaolis, A. Huq and R.R. Colwell†. **2003**. Characterization of a *Vibrio cholerae* phage isolated from the coastal water of Peru. *Environmental Microbiology* 5: 350-354.
48. **Lipp, E.K.**, A. Huq and R.R. Colwell†. **2002**. Effects of global climate on infectious disease: the cholera model. *Clinical Microbiology Reviews*. 15: 757 -770
49. **Lipp, E.K.**, J.L. Jarrell, D.W. Griffin, J. Jacukiewicz, J. Lukasik and J.B. Rose†. **2002**. Preliminary evidence for human fecal contamination in corals of the Florida Keys, U.S.A. *Marine Pollution Bulletin* 44: 666-670.
50. **Lipp, E.K.**, C. Rodriguez-Palacios and J.B. Rose†. **2001**. Occurrence and distribution of the human pathogen *Vibrio vulnificus* in a subtropical Gulf of Mexico estuary. *Hydrobiologia* 460: 165-173.
51. Griffin, D.W., **E.K. Lipp**, M.R. McLaughlin and J.B. Rose†. **2001**. Marine recreation and public health microbiology: Quest for the ideal indicator. *BioScience* 51: 817-825.
52. **Lipp, E.K.**, S.R. Farrah and J.B. Rose†. **2001**. Assessment and impact of microbial fecal contamination and human enteric pathogens in a coastal community. *Marine Pollution Bulletin* 42: 286-293
53. **Lipp, E.K.**, N. Schmidt, M. Luther and J.B. Rose†. **2001**. Determining the effects of El Niño-Southern Oscillation events on coastal water quality. *Estuaries* 24: 491-497.

54. Rose, J.B., P.R. Epstein, **E.K. Lipp**, B.H. Sherman, S.M. Bernard and J.A. Patz†. **2001**. Climate variability and change in the United States: Potential impacts on water- and food-borne disease caused by microbiological agents. *Environmental Health Perspectives* 109 (Supl. 2): 211-221.
55. **Lipp, E.K.**, R. Kurz, R. Vincent and C. Rodriguez-Palacios, S.R. Farrah and J.B. Rose†. **2001**. The effects of seasonal variability and weather on microbial fecal pollution and enteric pathogens in a subtropical estuary. *Estuaries* 24: 266-276.
56. Schmidt, N., **E.K. Lipp**, J.B. Rose and M. Luther†. **2001**. Analysis of ENSO related trends in Florida precipitation and streamflow. *Journal of Climate* 14: 615-628.
57. Nobles, R.E.†, P. Brown, J.B. Rose and **E.K. Lipp**. **2000**. The investigation and analysis of swimming-associated illness using the fecal indicator enterococcus in southern Florida's marine waters. *Florida Journal of Environmental Health* 169: 15-19.
58. Paul, J.H.†, M.R. McLaughlin, D.W. Griffin, **E.K. Lipp**, R. Stokes and J.B. Rose. **2000**. Rapid movement of wastewater from onsite disposal systems into surface waters in the Lower Florida Keys. *Estuaries* 23: 662-668.
59. Harvell, C.D.†, K. Kim, J.M. Burkholder, R.R. Colwell, P.R. Epstein, J. Grimes, E.E. Hofman, **E.K. Lipp**, A.D.M.E. Osterhaus, R. Overstreet, J.W. Porter, G.W. Smith and G. Vasta. **1999**. Diseases in the ocean: Emerging pathogens, climate links, and anthropogenic factors. *Science* 285: 1505 - 1510.
60. Griffin, D.W., C.J. Gibson III, **E.K. Lipp**, K. Riley, J.H. Paul and J.B. Rose†. **1999**. Detection of viral pathogens by reverse transcriptase PCR and of microbial indicators by standard methods in the canals of the Florida Keys. *Applied and Environmental Microbiology* 65: 4118 - 4125.
61. **Lipp, E.K.** and J.B. Rose†. **1997**. The role of seafood in foodborne diseases in the USA. Contamination of Animal Products: Prevention and Risks for Public Health. *Office International des Epizooties Review* 16 (2): 620 – 640.
62. **Lipp, E.K.** and R. Hammond†. **1996**. Ecology and virulence of halophilic vibrios in Florida. *Florida Journal of Environmental Health* 153: 6-10.

Chapters in books, peer-reviewed

63. Trtanj, J., L. Jantarasami, J. Brunkard, T. Collier, J. Jacobs, **E. Lipp**, S. McLellan, S. Moore, H. Paerl, J. Ravenscroft, M. Sengco, and J. Thurston, **2016**. Ch. 6: Climate Impacts on Water-Related Illness. *The Impacts of Climate Change on Human Health in the United States: A Scientific Assessment*. U.S. Global Change Research Program, Washington, DC, 157–188. <http://dx.doi.org/10.7930/J03F4MH4>
64. Sutherland, K.P. †, J.W. Porter and **E.K. Lipp**. **2015**. Acroporid Serratiosis. *In Diseases of Corals*, C. Woodley, C. Downs & J.P. Porter, eds. J Wiley and Sons, New Jersey.
65. Futch, J.C.*, D.W. Griffin and **E.K. Lipp**†. **2012**. Navigational inlets are conduits for land-based sources of pollution. *In Tropical Connections: Facts about South Florida's Marine Environment*, W.L. Kruczynski and P.J. Fletcher, eds. IAN Press, Univ of Maryland Ctr for Environmental Science, Cambridge, MD.
66. **Lipp, E.K.** †, D.W. Griffin and J.C. Futch*. **2012**. In-ground disposal of human sewage can contaminate nearshore waters and reefs with bacteria and viruses. *In Tropical Connections: Facts about South Florida's Marine Environment*, W.L. Kruczynski and P.J. Fletcher, eds. IAN Press, Univ of Maryland Ctr for Environmental Science, Cambridge, MD.
67. Sutherland, K.P. †, J.W. Porter and **E.K. Lipp**. **2012**. Branching elkhorn corals are susceptible to white pox disease. *In Tropical Connections: Facts about South Florida's Marine Environment*, W.L. Kruczynski and P.J. Fletcher, eds. IAN Press, Univ of Maryland Ctr for Environmental Science, Cambridge, MD.
68. Ebi, K.L. †, J. Balbus, P.L. Kinney, **E. Lipp**, D. Mills, M.S. O'Neill and M. Wilson. **2008**. Effects of Global Climate Change on Human Health. *In Analysis of the Effects of Global Change on Human Health and Welfare and Human Systems. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research*. J. L. Gamble (ed.), K.L Ebi, F.G. Sussman, T.J. Wilbanks (authors). U.S. Environmental Protection Agency, Washington, DC., p 39 – 87.

69. Porter, J.W.†, **E.K. Lipp**, K.P. Sutherland, and E. Mueller. **2008**. The ecology of an infectious disease in the Florida Keys: From pathogen to politics. *In Infectious Disease Ecology*. R.S. Ostfeld, F. Keesing and V. Eviner, eds. Princeton University Press; Princeton, NJ.
70. Scott, T.E., **E.K. Lipp**, and J.B. Rose†. **2004**. The effect of climate change on waterborne disease outbreaks. Chapter 6 *In Waterborne Microbial Pathogens: Their Detection and Control*. T.E. Cloete, ed. IWA Publishing, London.
71. Huq, A., **E.K. Lipp**, and R.R. Colwell†. **2001**. *Vibrio cholerae*. *In Encyclopedia of Environmental Health*. Bitton, G., ed.
72. **Lipp, E.K.**, J. Lukasik and J.B. Rose†. **2001**. Human enteric viruses and parasites in the marine environment. *In Methods in Microbiology*, Vol. 30, J.H. Paul, ed. Academic Press, London.

Other publications with editorial review

73. **Lipp, E.K.† 2008**. Global Environmental Change and Human Health: Water Stress/Water and Foodborne Disease. Training Module *In* “Climate Change and Human Health.” Ebi, K.L., course coordinator and developer. World Health Organization. http://www.searo.who.int/en/Section260/Section2468_14932.htm
74. Rose, J.B., A. Huq and **E.K. Lipp**. 2001. Health, Climate and Infectious Disease: A Global Perspective. American Academy of Microbiology. Washington, DC

B. GRANTS RECEIVED

External Grants – Active

Zimeri, A.M. (PI), E.K. Lipp (co-PI). **FDA**. *On-farm environmental sampling for small organic farms*. 09/13/2018 – 09/12/2020.

External Grants – Completed

Ottesen, E.A. (PI/PD), E.K. Lipp (co-PI). **CDC**. *The prevalence and diversity of antibiotic resistant bacteria in a mixed-use watershed*. 09/29/2017 – 09/30/2019

Lipp, E.K. (PI/PD), E. Ottesen. **NSF** (Biological Oceanography). *Collaborative Research: Vibrio as a model microbe for opportunistic heterotrophic response to Saharan dust deposition events in marine waters*. 04/01/2014 – 03/31/2019.

Lipp, E.K. (PI/PD), S. Hernandez (UGA). **FDA** (through Caitta, Inc.). *Landscape as a factor in persistence of distribution of enteric bacterial pathogens and potential spread to produce crops*. 07/15/2016 – 07/14/2018.

Schuerger, A. (PI/PD), et al. (Lipp, Co-I). **NASA** (Biodiversity). *A transoceanic aerobiology biodiversity study (TABS) to characterize microorganisms in Asian and African dust plumes reaching North America*. 09/01/2016 – 12/31/2017.

Porter, J.W., E.K. Lipp (co-PI), J. Wares, A. Park. **NSF/NIH** Evolution & Ecology of Infectious Disease. *Collaborative Research: Ecology of a Reverse Zoonosis: Human-Environment Interactions in the Transmission, Persistence, and Virulence of White Pox Disease in Elkhorn Coral*. 09/01/2010 – 8/31/2016.

Black, M.B. and E.K. Lipp (co-PI). **Georgia Sea Grant**. *Oyster Spat Stick Communities to Improve Water Quality*. 02/01/2010 – 01/31/2014.

Lipp, E.K. (PI/PD), S. Hernandez, J. Maurer, S. Sanchez, M. Madden, S. Valeika. **NIH** (NIAID) R-15 Award. *Does biogeography select for specific Salmonella serovars and influence disease patterns?* 09/01/2010 – 08/31/2013.

Lipp, E.K. (P.I./P.D.) with P. Yager (UGA), Monica Gaughan (UGA), J.T. Hollibaugh (UGA), M. Black (UGA), A. Peck (SKIO) and D. Cole (GA Pub Hlth). **NOAA** – OGP (Oceans and Human Health Initiative). *Georgia Oceans and Health Initiative (GOHI) Graduate Training Consortium*. 12/17/2007 – 04/30/2013.

Griffin, D.W. (USGS) and E.K. Lipp (UGA). **US Geological Survey and National Park Service**. *Human fecal microflora as a source of coral pathogens in the Dry Tortugas National Park: Are coral pathogens invasive or endemic?* 10/01/2009 – 09/31/2011.

Lipp, E.K. (PI/PD), M. Jenkins, R.R. Lowrance, P. Gay and E. Vereen, Jr. (USDA ARS). **USDA/NRI** (Watershed Processes and Water Resources). *Watershed scale transport of Salmonella, Campylobacter, and indicator organisms in the Satilla River Basin*. 10/01/06 – 9/30/10.

Sutherland, K.P. (Rollins College) and E.K. Lipp (co-PI). **Protect Our Reefs Fund**, Mote Marine Lab. *Challenge investigations with the white pox disease pathogen, Serratia marcescens, isolated from reef and sewage environments in the Florida Keys*. 05/01/2009 – 4/30/2010.

Lipp, E.K. (PI/PD), with D. Cole (UGA) and S. Lance-Parker (GA Div. of Public Health). **NOAA – OGP** (Oceans and Human Health Initiative). *Human pathogens in shellfish harvesting waters: Relating climate, water quality and disease outcomes*. 10/01/04 – 3/31/2010.

Lipp, E.K. (PI/PD) and D.W. Griffin (USGS). **EPA** (Region 4 Special Studies). *Identification of Land-based Pollution in South Florida Coral Reefs: Host Specific Viruses as Conservative Markers for Human Sewage*. 10/01/06 – 9/30/09..

Stallknecht, D.E. (PI/PD), D. Mead, S.M. Tomkins, E.W. Howerth, M.W. Jackwood, M. Garcia, E.K. Lipp, D. Cole, K. Smith, L. Stewart, P. Rohani and S. Valeika. **CDC**. *Avian Influenza Viruses in the Environment: What is the Probability of Human Contact and Transmission?* 10/01/06 – 9/30/09.

Lipp, E.K. (PI/PD), with D. Cole (UGA), N. Schmidt (UA) and S. Lance-Parker (GA Div. of Public Health). **NOAA – OGP** (Joint Announcement on Climate Variability and Health). *Using climate and weather variability to model human outbreaks of Salmonella and Campylobacter and their environmental prevalence in Georgia watersheds*. 08/01/03 – 07/31/08.

Lipp, E.K. (PI/PD) and Porter, J.W. co-PI (UGA). **FL Dept. of Environmental Protection** (Special studies in the Florida Keys National Marine Sanctuary). *Genomic profiling of Serratia marcescens from the Florida Keys: identifying coral-pathogenic fingerprints and potential sources*. Continuation Award. 10/1/05 – 6/30/07.

Lipp, E.K. (P.I./P.D.) with D.W. Griffin (USGS) and J.B. Rose (MSU). **EPA Region 4/NOAA** (Joint Announcement for Special Studies in the Florida Keys National Marine Sanctuary). *Human fecal indicator bacteria and pathogenic viruses in offshore reefs and human recreational risk in nearshore waters of the Florida Keys*. 10/01/03-9/30/06.

Lipp, E.K. 2004. **Coastal Resources Division (GA Dept. of Natural Resources)**. *Analyses of viral pathogens along GA beaches*. 10/01/04 – 9/30/05.

Lipp, E.K. (PI/PD), with J.W. Porter (UGA) and Kathryn Patterson Sutherland (UGA). **FL Dept. of Environmental Protection**. *Genomic profiling of Serratia marcescens from the Florida Keys: identifying coral-pathogenic fingerprints and potential sources*. 11/01/03 – 9/30/05.

Lipp, E.K. (PI/PD). GA Sea Grant (Program Development Award). *Enteric viruses in coastal reaches of the Altamaha River: molecular detection of human, bovine and porcine enteroviruses*. 07/01/02 – 09/30/03.

Internal (UGA) Grants - Completed

Lipp, E.K. (UGA PI/PD), D. Griffin (USGS), E. Barzilay (CDC PI/PD). **CDC-University of Georgia Seed Awards program**. *Climate-change based predictive modeling of rising Vibrio illness in the U.S*. 10/01/10 – 09/30/13.

Lipp, E.K. (PI/PD). **UGA Research Foundation Junior Faculty Research Grant**. *The role of enteric microbiota in coral reefs as human sewage indicators and potential coral pathogens*. 01/01/03 – 12/31/03.

C. PRESENTATIONS AND SESSIONS CONVENED

Invited Presentations (not related to meetings of professional societies)

International

Lipp, E.K. 2013. *The role of the environment in Vibrio population dynamics and risk*. Earth Observation and Environmental modeling for mitigation of Health Risks (EO2HEAVEN, funded by European Commission). Workshop on Climate-Based Modeling for Cholera. Pretoria, South Africa

Lipp, E.K. 2011. *Marine organisms as sentinels of fecal pollution in urban coastal waters*. 9th United Nations University & Gwangju Institute of Science and Technology Joint Programme Symposium: Urban Water Quality - Challenges and Emerging Issues for Sustainable Cities. Gwangju, Korea

National or Regional

Lipp, E.K. 2017. *Microbiology and health in marine science*. Panelist. University of South Florida, College of Marine Science. 50th Anniversary Symposium.

Lipp, E.K. 2016. *Exposure risks for waterborne disease in a changing climate*. USEPA EMMD Strategic Retreat. Athens, GA.

Lipp, E.K. 2016. *Climate and waterborne disease: warmer, wetter, riskier*. Savannah River National Lab, Dept. of Energy. Aiken, SC.

Lipp, E.K. 2016. *Vibrio: an opportunist in opportune times*. College of Science and Engineering Distinguished Speaker Series. Texas A&M University – Corpus Christi.

Lipp, E.K. 2016. *Climate, water, and health: warmer, wetter, riskier*. Sustainability and Public Health Speaker Series. Wofford College

Lipp, E.K. 2016. *Waterborne disease risk in a changing climate*. “Ask Us” Educator Professional Development Seminar. NASA ESTEEM (Earth Systems, Technology and Energy Education for Minority University Research and Education Project).

Lipp, E.K. 2015. *Water in the Time of Cholera*. Honors Program, Lunchbox Lectures Series. University of Georgia.

Lipp, E.K. 2014. *Waterborne pathogens and exposure risks to children under changing climate conditions*. Expert Consultation on the Effects of Climate Change of Children’s Health. President’s Task Force on Children’s Environmental Health Risks and Safety Risks to Children. Subcommittee on Climate Change. Washington, DC.

Lipp, E.K. 2014. *A long strange trip: Transoceanic dust transport and deposition in marine ecology and health*. Environmental Health Science, Seminar Series. University of Georgia.

Lipp, E.K. 2014. *Climate change and waterborne disease*. Georgia Initiative for Climate and Society Seminar Series. University of Georgia.

Lipp, E.K. 2014. *White pox in the Florida Keys*. Workshop: Disease Risks Associated with Acroporid Coral Restoration. Florida Fish and Wildlife Commission. St. Petersburg, FL.

Lipp, E.K. 2013. *Examining the ecology of Salmonella: environmental routes of exposure and transmission*. Seminar Series in Population Biology, Ecology and Evolution at Emory University. Atlanta, GA

Lipp, E.K. 2013. *Landscapes and climate in Salmonella ecology*. One Health Symposium, Athens, GA.

Lipp, E.K. 2012. *Shifting dynamics in Vibrio populations and human exposure risk with a changing climate*. UGA-University of Liverpool, One Health Symposium. Athens, GA

Lipp, E.K. 2012. *Shifting dynamics in Vibrio populations and human exposure risk with changing climate in the southeast*. USGRCP National Assessment of Climate Change – Health Sector Workshop. Charleston, SC

Lipp, E.K. 2011. *Ecological considerations on emerging pathogens from coastal environments*. University of Georgia, Dept. of Microbiology, Seminar Series. Athens, GA

Lipp, E.K. 2010. *Significance of Marine Reservoirs for Environmental Pathogens*. FDA Center for Food Safety and Applied Nutrition. Gulf Coast Seafood Safety Laboratory. Dauphin Island, AL

- Lipp, E.K.** 2010. *Environmental Pathogens in Ocean Reservoirs*. NOAA Northwest Fisheries Science Center/University of Washington Center for Oceans and Human Health. Seattle, WA.
- Lipp, E.K.** 2010. *Significance of Marine Reservoirs for Environmental Pathogens*. Medical University of South Carolina, Marine Biomedicine and Environmental Science Center. Charleston, SC.
- Lipp, E.K.** 2009. *Estuarine Plankton Communities as Reservoirs for Enteric Microbes*. Annual Oceans and Human Health Investigators' Meeting. NOAA. Seattle, WA.
- Lipp, E.K.** 2009. *Human Noroviruses in Tidal Creeks and Estuaries of Rural South Georgia: A Legacy of Aging Septic Systems?* On-site Sewage Disposal Workshop. Florida Environmental Health Association. Tallahassee, FL
- Lipp, E.K.** and D. Griffin. 2009. *Identification of Land-Based Pollution in South Florida Coral Reefs: Host-Specific Viruses as Conservative Markers for Human Sewage (Annual Update)*. Southeast Florida Coral Reef Initiative, Meeting of the Technical Advisory Committee. Dania Beach, FL.
- Lipp, E.K.** 2008. *Climate Change and Waterborne Illness*. US EPA Workshop on Approaches to Modeling the Health Impacts of Climate Change. Washington, DC.
- Lipp, E.K.,** D. Cole and N. Schmidt. 2008. *Can Climate or Weather Variability Contribute to Patterns in Salmonella and Campylobacter in Georgia?* CDC Work Group, Health Effects of Climate Change. Atlanta, GA
- Lipp, E.K.** and D. Griffin. 2008. *Identification of Land-Based Pollution in South Florida Coral Reefs: Host-Specific Viruses as Conservative Markers for Human Sewage (Annual Update)*. Southeast Florida Coral Reef Initiative, Meeting of the Technical Advisory Committee. Dania Beach, FL.
- Lipp, E.K.** 2008. *Public and ecosystem health connections: pathogens in Florida's coral reef environments*. University of Georgia, Dept. of Marine Science. Athens, GA
- Lipp, E.K.** and D. Griffin. 2007. *Identification of Land-Based Pollution in South Florida Coral Reefs: Host-Specific Viruses as Conservative Markers for Human Sewage (Annual Update)*. Southeast Florida Coral Reef Initiative, Meeting of the Technical Advisory Committee. Dania Beach, FL
- Lipp, E.K.** 2007. *Human pathogens in shellfish harvesting waters: Relating climate, water quality and disease outcomes*. Annual Oceans and Human Health Investigators' Meeting. NOAA. Muskegon, MI.
- Lipp, E.K.** 2007. *Crossing an Ocean: Bringing Marine Microbial Ecology to Public Health*. University of North Carolina – Chapel Hill, Institute of the Environment, Field Station Seminar Series.
- Lipp, E.K.** 2007. *Ecology of Waterborne Pathogens*. Climate, Ecology and Infectious Disease. UGA Biomedical Health Science Institute 2007 Spring Symposium. Athens, GA.
- Lipp, E.K.** 2005. *Human Fecal Indicator Bacteria and Pathogenic Viruses in Offshore Reefs and Human Recreational Risk in Nearshore Waters of the Florida Keys*. Florida Keys National Marine Sanctuary Technical Advisory Committee, report to the Steering Committee. Marathon, FL.
- Lipp, E.K.** 2004. *The Age of Effluents: Impacts on Human and Ecosystem Health in the Florida Keys*. Seminar, University of Georgia, Institute of Ecology. Athens, GA.
- Lipp, E.K.** 2004. *Human Pathogens in Tropical Marine Environments*. Seminar, University of North Carolina – Wilmington. Wilmington, NC.
- Lipp, E.K.** 2004. *Sewage in the Water: Linking Human and Ecosystem Health*. University of Georgia, Warnell School of Forest Resources, Seminar Series. Athens, GA.
- Lipp, E.K.** 2003. *The Age of Effluents: Sewage, Disease and Impacts on Florida's Coral Reefs*. McGrath Lecture Series, Long Island University, Southampton College. Southampton, NY.
- Lipp, E.K.** 2002. *Spatial and Temporal Variations in Wastewater Contaminants and Human Pathogens in the Charlotte Harbor Estuary*. Charlotte Harbor Conference: Discovery in 2001-2002. Mote Marine Laboratory, Sarasota, FL.
- Lipp, E.K.** 2002. *Tracking Wastewater and Pathogens in Tropical Marine Environments*. University of Georgia, Dept. of Marine Science, Seminar Series. Athens, GA.

Lipp, E.K. 2000. *Using Weather-Related Variables to Model the Occurrence and Impact of Waterborne Pathogens*. Energy Modeling Forum: Impacts and Adaptations to Climate Change. Snowmass, CO.

Schmidt N. and **E.K. Lipp**. 1999. *The Role of Climate and ENSO in Precipitation, Streamflow and Coastal Water Quality in South Florida*. 23rd Annual Climate Diagnostics Workshop, NOAA, National Weather Service. University of Arizona, Tucson, AZ.

Lipp, E.K. and J.B. Rose. 1998. *Influence of Climate on Microbial Contamination of Coastal Waters*. Global Climate Change and Extreme Events Workshop, Regional Assessment. Miami, FL.

Lipp E.K. and J.B. Rose. 1998. *Extreme Climate Events associated with Viral Contamination of Estuaries*. GCIP Mississippi River Climate Conference, St. Louis, MO

Presentations at Meetings of Professional Societies

Presenter is first author unless noted otherwise (underlined).

International and National Meetings

Lipp, E.K.* 2019. *Climate in the time of Vibrio*. American Society for Microbiology (ASM) Microbe General Meeting. Invited "Hub" Talk. San Francisco, CA.

Seim, R. ▽, M. Bucher Ghazaleh ▽, A. Ebling, W. Landing, J.R. Westrich ▽, **E.K. Lipp**. 2019. *Characterizing the microbial community of atmospheric Saharan dust in the Florida Keys*. American Society for Microbiology (ASM) Microbe General Meeting. Poster. San Francisco, CA.

Ghazaleh Bucher, M.N. ▽, J.R. Westrich ▽, **E.K. Lipp**. 2018. *Capturing the microbial signature of coral health during a multi-species, multi-disease outbreak in the Florida Keys*. ISME-17 Meeting. Leipzig, Germany. *Qiagen Best Poster Award*

Edwards, M.E. ▽, A. Kannan, O. Georgacopoulos, E.A. Ottesen, J. Frye, C. Jackson, L. Hiott, S. Cho, J. Wood, **E.K. Lipp**. 2018. *High-resolution spatial-temporal dynamics of Escherichia coli in an urban stream system*. ASM Microbe General Meeting. Poster. Atlanta, GA. *Selected for Rapid-Fire Talk*

Lipp, E.K.* 2017. *Environmental opportunism and the importance of Vibrio blooms*. Vibrio 2017. Chicago, IL. Keynote Speaker.

Kemp. K.M.*, S.T. Lee, D.W. Kemp, **E.K. Lipp**. 2017. *Vibrio blooms and microbiome destabilization during disease lesion onset in the threatened Caribbean elkhorn coral*. Vibrio 2017. Poster. Chicago, IL.

Lipp, E.K.*. 2017. *Warmer and wetter: risks for waterborne illness among children under a changing climate*. American Public Health Association. Atlanta, GA

Lydon, K.A. ▽, S. Wang, **E.K. Lipp**, J. Jambeck. 2017. *Microbial communities associated with polyhydroxyalkanoate bioplastic degradation*. ASM Microbe General Meeting. Poster. New Orleans, LA *Selected for Rapid-Fire Talk*

Ghazaleh, M.N. ▽, J. Westrich ▽, K. Kemp ▽, K. Lydon ▽, **E.K. Lipp**. 2017. *Oligotyping reveals hidden diversity in Vibrio spp. bloom after Saharan Dust Nutrient Input*. ASM Microbe General Meeting. Poster. New Orleans, LA

Grim, C., M. Wang, S. Leonard, **E.K. Lipp**, J. Maurer, M. Ray-Russell, G. Vellidis, M. Mammel, C. Elkins, and B. Li. 2017. *Comparative genomics confirms persistence of Salmonella serovar Newport in environmental waters of southern and central Georgia*. International Association for Food Protection. Tampa, FL

Murray, M., R.S. Rozier ▽, **E.K. Lipp**, H. Adams, T. Ellison, A. Kidd, C. Welch, and S.M. Hernandez. 2017. *Consequences of anthropogenic food provisioning for enteric and eoparasitic infections in an urban wading bird*. Ecology and Evolution of Infectious Disease. University of California-Santa Barbara.

Westrich, J. -, A.M. Ebling, D.W. Griffin, W.M. Landing, **E.K. Lipp**. 2016. *Discovery of Vibrio blooms in tropical marine waters*. Vibrio 2016. Roscoff, France.

Westrich, J. -, A.M. Ebling, D.W. Griffin, W.M. Landing, **E.K. Lipp**. 2016. *Rapid response of opportunistic*

heterotrophic bacteria to atmospheric dust deposition in marine surface waters. Gordon Research Conference on Ocean Global Change Biology. New Hampshire.

Oladeinde, A., **E.K. Lipp**, M. Molina. 2016. *Interacting effects of sunlight, dissolved organic matter, and reactive oxygen species on fecal indicator bacteria growth dynamics*. ISME16. Montreal, Canada.

Maurer, J.J., D. Drapeau, C. Parker, M. Lourenco, R. Atchutuni, T. Kwan, M.D. Lee, **E.K. Lipp**, K. Johnson. 2016. *Are Salmonella from poultry distinct from those present in the environment?* American Association of Avian Pathologists

Murray, M., S.M. Hernandez, R.S. Rozier*, J. Hepinstall-Cymermann, A. Kidd, and **E.K. Lipp**. 2016. *Changes in the foraging behavior of American white ibis with urbanization increase their risk of infection with Salmonella enterica*. The Wildlife Society Annual Conference

Murray, M., **E.K. Lipp**, R. S. Rozier-, J. Hepinstall-Cymerman, A. Kidd, S. Hernandez. 2016. *Changes in the foraging behavior of American white ibis (Eudocimus albus) with urbanization and implications for pathogen transmission*. Society for Conservation Biology. North American Congress for Conservation Biology. Madison, WI.

Murray, M. S.M. Hernandez, R.S. Rozier*, J. Hepinstall-Cymerman, A. Kidd, **E.K. Lipp**. 2016. *Higher rates of environmental contamination and site fidelity associated with increased prevalence of Salmonella enterica in urban American white ibis (Eudocimus albus)*. Wildlife Disease Association Annual International Conference

Murray, M. S.M. Hernandez, R.S. Rozier*, J. Hepinstall-Cymerman, A. Kidd, **E.K. Lipp**. 2016. *Changes in the site fidelity of urban American white ibis (Eudocimus albus) are associated with increased prevalence and potential spread of Salmonella enterica*. Ecology and Evolution of Infectious Disease

Hernandez, S.M., C.N. Welch, V.E. Peters, **E.K. Lipp**, S. Curry, M.J. Yabsley, S. Sanchez, A. Presotto, P. Gerner-Schmidt, K. Hiseq, E. Hammond, M. Madden, T. Kwan, J.J. Maurer. 2016. *Urbanized white ibises (Eudocimus albus) are carriers of Salmonella enterica significant to public health and wildlife*. International Wildlife Disease Association Conference. Ithaca, NY.

*Ebling, A.M. J.W. Westrich-, **E.K. Lipp**, T. Mellet, K.N. Buck, W.M. Landing. 2016. *Seasonal and spatial effects of trace elements in the sea surface microlayer: results from a two year study in the Florida Keys*. ASLO/TOS Ocean Sciences Meeting. Poster. New Orleans, LA.

Lydon, K.A.- and **E.K. Lipp**. 2015. *Characterization of triclosan resistance in Vibrio bacteria*. General Meeting of the American Society for Microbiology. Poster. New Orleans, LA. *Selected as Outstanding Poster*

Joyner, J.L.-, K.P. Sutherland, D. Kemp, J. Porter and **E.K. Lipp**. 2014. *White pox disease and the environmental prevalence of Serratia marcescens*. Oceans and Human Health Gordon Research Conference, Biddeford, ME.

Lipp, E.K. 2014. *Vibrio as a marine indicator for climate change?* ASLO/TOS Ocean Sciences Meeting. Psoter. Honolulu, HI

Joyner, J.L.-, D. Kemp, J. Wares, J. Porter and **E.K. Lipp**. 2014. *Bacterial community assemblies of individual Acropora palmata colonies observed over three years*. ASLO/TOS Ocean Sciences Meeting. Honolulu, HI

***Lipp, E.K.** 2013. *Vibriosis in the coastal ocean*. 113th General Meeting of the American Society for Microbiology. Denver, CO.

Joyner, J.L.v, **E.K. Lipp**. 2013. *Coral pathogen detection in non-host coral during a disease occurrence*. 42nd Benthic Ecology Meeting. Poster. Savannah, GA

Lipp, E.K. 2013. *Discrete storm impacts on the loading of Salmonella in a rural watershed*. 4th Conference on the Environment and Health. Annual Meeting of the American Meteorological Society. Austin, TX.

Westrich, J.R. v, D.W. Griffin, **E.K. Lipp**. 2013. *Dust in the wind, microbes in the water: Saharan dust effect on Vibrio bacteria populations*. 4th Conference on the Environment and Health. Annual Meeting of the American Meteorological Society. Poster. Austin, TX.

Kemp, D.W., M. Meyers, J.L. Joyner^v, J. Wares, **E.K. Lipp**, J. Porter. 2012. *Microbial assemblages of Acropora palmata during bleaching and disease events*. XII International Coral Reef Symposium. Cairns, Queensland, Australia.

- Lipp, E.K.**, J.W. Porter, J.P. Wares, A.W. Park, D.W. Kemp, J.L. Joyner, M.K. Meyers, K.P. Sutherland. 2012. *Linking human and ecosystem scale environmental health: The case of white pox disease in elkhorn coral*. Oceans and Human Health, Gordon Research Conference. Biddeford, ME
- Joyner, J.L., **E. K. Lipp**. 2012. *Impacts of sewage contamination in the Florida Keys on water quality and marine animals*. Oceans and Human Health, Gordon Research Conference. Biddeford, ME
- Westrich, J.R., D.W. Griffin, **E.K. Lipp**. 2012. *Dust in the wind: Vibrio population response to aeolian nutrients*. Oceans and Human Health, Gordon Research Conference. Poster. Biddeford, ME
- Westrich, J.R., D.W. Griffin, **E.K. Lipp**. 2012. *Marine Vibrio bacteria response to aeolian nutrients*. Lower Atmospheric Observing Facilities Workshop: Meeting the Challenges of Climate System Science. Poster. Boulder, CO.
- ***Lipp, E.K.** 2011. *Georgia Oceans and Health Initiative: a graduate training consortium in oceans and human health*. Coastal and Estuarine Research Federation Biennial Conference. Daytona Beach, FL.
- Joyner, J.L., J.C. Futch, D.W. Griffin and **E.K. Lipp**. 2011. *Marine sponges as potential reservoirs for enteric bacteria and implications to human and coral health*. Coastal and Estuarine Research Federation Biennial Conference. Daytona Beach, FL. *Awarded best student presentation in session on Oceans and Human Health*
- Crews, M.K., **E.K. Lipp**. 2011. *Accumulation of enteric pathogens among Crassostrea virginica spat and adult communities in coastal Georgia*. 111th General Meeting of the American Society for Microbiology. Poster. New Orleans, LA.
- Joyner, J.L., D. Wanless, J. Okereke, C. Sinigalliano, K.P. Sutherland, **E.K. Lipp**. 2011. *Detection of Serratia marcescens in the environment using quantitative real time PCR*. 111th General Meeting of the American Society for Microbiology. Poster. New Orleans, LA.
- *Westrich, J.W., D.W., Griffin, **E.K. Lipp**. 2011. *Dust in the wind: How global desertification is affecting pathogenic marine Vibrios*. American Association for the Advancement of Science (AAAS) Annual Meeting, Washington, DC.
- Futch, J.C., D. W. Griffin, **E. K. Lipp**. 2011. *Land-based sources of pollution to reefs and nearshore waters of southeast Florida*. National Council on Science and the Environment. Poster. Washington, DC.
- *Malayil, L., J.W. Turner and **E.K. Lipp**. 2010. *Novel reservoirs of the ctx A/B gene*. Vibrios in the Environment 2010. Biologi. MS.
- Westrich, J.W., D.W. Griffin, **E.K. Lipp**. *Ecological implications of environmental iron flux on Vibrio*. 13th International Society of Microbial Ecology Meeting. Poster. Seattle, WA.
- Turner, J.W., J.R. Westrich, E. Stabb and **E.K. Lipp**. 2010. *Attachment of Vibrio cholerae to an environmental host – the marine copepod*. 13th International Society of Microbial Ecology Meeting. Poster. Seattle, WA.
- Joyner, J.L., K.P. Sutherland, J. Okereke, C. Sinigalleano, **E.K. Lipp**. 2010. *Serratia marcescens in the environment: real time detection and preliminary analysis of virulence*. Oceans and Human Health Gordon Research Seminar and Conference. Poster. Biddeford, ME.
- Joyner, J., W. Fitt and **E.K. Lipp**. 2010. *Does the species composition of symbiotic microbial communities for corals and sponges change with time and space?* Benthic Ecology Meeting. Wilmington, NC.
- Turner, J.W., L. Malayil, D. Guadagnoli, D. Cole and **E.K. Lipp**. 2009. *Is Vibrio cholerae a plankton specialist?* 109th General Meeting of the American Society for Microbiology. Poster. Philadelphia, PA
- Malayil, L., J.W. Turner and **E.K. Lipp**. 2009. *Reservoirs of the CTX gene in a non-cholera-endemic coastal area*. 109th General Meeting of the American Society for Microbiology. Poster. Philadelphia, PA
- Mote, B.L., J.W. Turner and **E.K. Lipp**. 2009. *Distribution of the fecal indicator bacteria, enterococci, within natural estuarine plankton communities and the water column*. 109th General Meeting of the American Society for Microbiology. Poster. Philadelphia, PA
- Vereen, E., S. Rajeev, R.R. Lowrance, P. Gay, M. Jenkins and **E.K. Lipp**. 2009. *Occurrence of Salmonella, Campylobacter and indicator organisms in the watershed of the Satilla River Basin*. 109th General Meeting of the American Society for Microbiology. Poster. Philadelphia, PA

- Turner, J.W.^v, J. Westrich^v, E. Stabb and **E.K. Lipp**. 2009. *GFP and RFP tools for observing the attachment of V. cholerae to the copepod host*. Annual Oceans and Human Health Investigators' Meeting. NOAA. Poster. Seattle, WA.
- Westrich, J.^v, J.W. Turner^v, E. Stabb and **E.K. Lipp**. 2009. *Effect of iron in the marine environment on Vibrio virulence*. Annual Oceans and Human Health Investigators' Meeting. NOAA. Poster. Seattle, WA.
- Joyner, J.^v, **E.K. Lipp**. 2009. *Can marine sponges be early indicators of sewage contamination for coastal environments?* Annual Oceans and Human Health Investigators' Meeting. NOAA. Seattle, WA.
- Futch, J.C.^v, G. Bossart, P. Fair, W. Mc Fee, J. Moore, J. Powell, J. Vinjé, L. Webster and **E.K. Lipp**. 2009. *Dolphins as sentinel animals of oceans and human health: surveying carriage of human enteric pathogens using molecular techniques*. Annual Oceans and Human Health Investigators' Meeting. Poster. NOAA. Seattle, WA.
- ***Lipp, E.K.**, R. Lowrance, M. Jenkins, P. Gay, S. Rajeev and E. Vereen^v. 2009. *Project update - watershed scale transport of Salmonella, Campylobacter and indicator organisms in the Satilla River Basin*. USDA-CSREES National Water Conference. St. Louis, MO.
- Turner, J.W.^v, D. Cole and **E.K. Lipp**. 2008. *Temperature and reservoir shifts contribute to the seasonality of pathogenic Vibrio species*. Gordon Research Conference on Oceans and Human Health. Poster. Tilton, NH.
- Gentry, J.B.^v, J. Vinjé and **E.K. Lipp**. 2008. *Quantification and distribution of human noroviruses in Georgia shellfish harvesting waters using real-time RT-PCR*. 108th General Meeting of the American Society for Microbiology. Poster. Boston, MA
- Looney, E.^v and **E.K. Lipp**. 2008. *Environmental persistence of the elkhorn coral pathogen PDL-100 (Serratia marcescens)*. 108th General Meeting of the American Society for Microbiology. Poster. Boston, MA.
- Martin, G.^v, D. Cole and **E.K. Lipp**. 2008. *Drought and storm impacts on loading of Salmonella spp. and Campylobacter spp. in a Georgia Coastal Plain watershed*. 108th General Meeting of the American Society for Microbiology. Poster. Boston, MA.
- Futch, J.C.^v, D.W. Griffin and **E.K. Lipp**. 2008. *Land-based sources of pollution to reefs and nearshore waters of southeast Florida*. 108th General Meeting of the American Society for Microbiology. Poster. Boston, MA.
- Lipp, E.K.**, R. Lowrance, M. Jenkins, P. Gay, S. Rajeev and †E. Vereen^v. 2008. *Watershed scale transport of Salmonella, Campylobacter and indicator organisms in the Satilla River Basin*. USDA-CSREES National Water Conference. Sparks, NV
- Turner, J.W.^v, D. Cole and **E.K. Lipp**. 2007. *Ecology of Vibrio species in shellfish harvesting waters with respect to seasonal changes and reservoir shifts*. Annual Oceans and Human Health Investigators' Meeting. NOAA. Poster. Muskegon, MI.
- Gentry, J.B.^v, J. Vinjé and **E.K. Lipp**. 2007. *Rapid and quantitative real-time detection of norovirus in shellfish*. Annual Oceans and Human Health Investigator's Meeting. NOAA. Poster. Muskegon, MI.
- ***Lipp, E.K.**. 2007. *Coastal reservoirs and human pathogens*. 107th General Meeting of the American Society for Microbiology. Toronto, ON.
- Griffith, M.L.^v, D. Cole and **E.K. Lipp**. 2007. *Spatial-temporal analysis of fecal indicator bacteria and human viruses in shellfish harvesting waters of coastal Georgia*. Poster. 107th General Meeting of the American Society for Microbiology. Poster. Toronto, ON.
- Turner, J.W.^v, D. Cole and **E.K. Lipp**. 2007. *Detection of Vibrio cholerae, ctxA and toxR in a seasonally distributed Vibrio population in shellfish harvesting waters, Georgia, USA*. Poster. 107th General Meeting of the American Society for Microbiology. Poster. Toronto, ON.
- Masago, Y., **E.K. Lipp**, J.C. Futch^v, D.W. Griffin and J.B. Rose. 2007. *Human recreational risk in nearshore waters of the Florida Keys*. Poster. 107th General Meeting of the American Society for Microbiology. Poster. Toronto, ON.
- *Sutherland, K.P., J.W. Porter and **E.K. Lipp**. 2006. *White pox disease of elkhorn coral: source tracking for the pathogen*. AAAS Annual Meeting. St. Louis, MO.

- †Haley, B.J., D. Cole and **E.K. Lipp**. 2006. Persistence of *Salmonella* in aquatic environments. 106th General Meeting of the American Society for Microbiology. Poster. Orlando, FL.
- †Turner, J.W. and **E.K. Lipp**. 2006. Detection of pathogenic *Vibrio* spp. in shellfish harvesting waters, Georgia, USA. 106th General Meeting of the American Society for Microbiology. Poster. Orlando, FL.
- †Schmidt, Nancy, D.M. Cole, and **E.K. Lipp**. 2006. A case study for linking climate and human health: *Campylobacter* in Georgia, USA. Ocean Sciences Meeting of the American Society of Limnology and Oceanography, Honolulu, HI.
- †Venton, J.C., D.W. Griffin and **E.K. Lipp**. 2006. Human enteric viruses as markers for sources and presence of sewage contamination in coral reefs. Ocean Sciences Meeting of the American Society of Limnology and Oceanography, Honolulu, HI.
- †Haley, B.J., D. Cole and **E.K. Lipp**. 2006. Impacts of climate and weather on *Salmonella* densities in the aquatic environment. Ocean Sciences Meeting of the American Society of Limnology and Oceanography. Poster. Honolulu, HI.
- †Cole, D, J, X. Wang, S. Lance, N Schmidt and **E.K. Lipp**. 2005. Effect of climate on reported *Salmonella* case rates in southeast Georgia. ASLO Aquatic Sciences Meeting. Salt Lake City, UT
- †Venton, J.C., D. W. Griffin and **E.K. Lipp**. 2005. Evaluation of human fecal pathogens in offshore reefs of the Florida Keys. ASLO Aquatic Sciences Meeting. Poster. Salt Lake City, UT.
- *Sutherland, K.P., J.W. Porter and **E.K. Lipp**. 2005. Ecology of the coral disease pathogen, *Serratia marcescens*, in the Florida Keys. Special Session, General Microbiology Division I. Microbiology of Coral Diseases: State of the Field. ASM 105th General Meeting. Atlanta, GA.
- †Haley, B.J., J.C. Venton, E.Vereen, Jr., T.J. Onifade, K.M. Caspary and **E.K. Lipp**. 2005. Evaluation of enterococci and fecal coliform bacteria as indicators of viral pathogen loads in marine recreational waters. ASM 105th General Meeting. Poster. Atlanta, GA.
- †Onifade, T.J., D.J. Cole and **E.K. Lipp**. 2005. Retrospective analysis of campylobacteriosis in Georgia, USA: relationship to environmental factors. ASM 105th General Meeting. Poster. Atlanta, GA.
- †Venton, J.C., D.W. Griffin and **E.K. Lipp**. 2005. Survival of fecal indicators in surface marine waters of the Florida Keys and coral mucus. ASM 105th General Meeting. Poster. Atlanta, GA.
- †Vereen, E., Jr., R.R. Lowrance and **E.K. Lipp**. 2005. *In vitro* survival study of *Campylobacter jejuni* in aquatic environments with traditional culture methods and direct detection. ASM 105th General Meeting. Poster. Atlanta, GA.
- *Porter, J.W., **E.K. Lipp**, K.P. Sutherland and P. Rohani. 2005. The influence of coral disease on coral reef survival: a model system investigating the candidate endangered elkhorn coral species, *Acropora palmata*. Cary Conference 2005: Ecology of Infectious Diseases. Institute of Ecosystem Studies, Millbrook, NY.
- *†Sutherland, K. P., **E.K. Lipp** and J.W. Porter. 2005. Genomic profiling of *Serratia marcescens* from the Florida Keys: identifying the ecology and potential origin of the white pox coral pathogen. Estuarine Research Federation Conference. Norfolk, VA.
- †Fong, T.T. and **E.K. Lipp**. 2004. Molecular detection of waterborne enteric viruses in the coastal reaches of the Altamaha River. 104th General Meeting of the American Society for Microbiology. Poster. New Orleans, LA
- †Vereen, E., R.R. Lowrance and **E.K. Lipp**. 2004. Detection and seasonal distribution of *Campylobacter* spp. in a southeastern Georgia watershed. 104th General Meeting of the American Society for Microbiology. Poster. New Orleans, LA.
- *†**Lipp, E.K.** and D.W. Griffin. 2004. Patterns of sewage contamination in coral reefs of the Florida Keys: human and ocean health linkages. Ocean Sciences Meeting of the American Society for Limnology and Oceanography and The Oceanographic Society, Honolulu, HA.

- *†**Lipp, E.K.** and J.B. Rose. 2001. Microbial fecal pollution in tidal creeks and canals in developed regions of southwest Florida. General Meeting of the Estuarine Research Federation. St. Petersburg, FL.
- ***Lipp, E.K.** 2001. Impact of extreme events on water quality and disease. AWWA 2001 Source Water Protection Symposium. Savannah, GA.
- †**Lipp, E.K.**, A. Neale, I.N.G. Rivera, M. Talledo, D. Karaolis, A. Huq and R.R. Colwell. 2001. Optimal conditions for infection and multiplication of a *Vibrio cholerae* specific phage isolated from seawater. 101st General Meeting of the American Society for Microbiology. Poster. Orlando, FL.
- †Zo, Y., I.N.G. Rivera, **E.K. Lipp**, M.S. Islam, M. Yunus, A.K. Siddique, B. Sack and R.R. Colwell. 2001. Biweekly dynamics of culturable *Vibrio cholerae* in cholera-endemic areas of Bangladesh. 101st General Meeting of the American Society for Microbiology. Poster. Orlando, FL.
- †Schmidt, N., **E.K. Lipp**, J.B. Rose and M.E. Luther. 2000. Modulation of ENSO impacts in Florida by the NAO. AGU Chapman Conference on the NAO. Poster. Galacia, Spain.
- †**Lipp, E.K.** and J.B. Rose. 1999. Importance of sediments in the distribution of *Vibrio vulnificus*. Aquatic Sciences meeting of the American Society of Limnology and Oceanography. Santa Fe, NM.
- †Schmidt, N. and **E.K. Lipp**. 1999. Climatic factors affecting water quality in Charlotte Harbor, Florida. Aquatic Sciences meeting of the American Society of Limnology and Oceanography. Santa Fe, NM.
- †McLaughlin, M.R., J.H. Paul, D.W. Griffin, **E.K. Lipp**, R. Stokes and J.B. Rose. 1999. Viral tracer studies of wastewater movement from an injection well and septic tank in the lower Florida Keys. 99th General Meeting of the American Society for Microbiology. Poster. Chicago, IL.
- †**Lipp, E.K.**, N. Schmidt, M.E. Luther and J.B. Rose. 1999. The role of climate and ENSO on coastal water quality in south Florida. American Geophysical Union, Spring Meeting. Poster. Boston, MA.
- †**Lipp, E.K.**, J.B. Rose, R. Vincent, R. Kurz and C. Rodriguez-Palaçios. 1998. Influence of tides on concentration of fecal-associated microbes. Ocean Sciences meeting of the American Geophysical Union. San Diego, CA
- †**Lipp, E.K.**, J.B. Rose, R. Vincent, R. Kurz and C. Rodriguez-Palaçios. 1998. Temporal occurrence of *Vibrio vulnificus* in a subtropical estuary during the 1997-1998 El Niño Year. 98th General Meeting of the American Society for Microbiology. Poster. Atlanta, GA.
- †**Lipp, E.K.**, J.B. Rose, R. Vincent, R. Kurz and C. Rodriguez-Palaçios. 1998. Microbial water quality in two subtropical estuaries. International Association for Water Quality (Health Related Water Microbiology). Poster. Vancouver, BC.
- †**Lipp, E.K.** and J.B. Rose. 1997. The occurrence of human pathogens along the Gulf Coast of south Florida. Aquatic Sciences meeting of the American Society of Limnology and Oceanography. Santa Fe, NM.

State and Regional Meetings

Presenter is first author unless noted otherwise (underlined).

Seim, R. ▽, M. Bucher Ghazaleh ▽, A. Ebling, W. Landing, J.R. Westrich ▽, **E.K. Lipp**. 2018. *Characterizing the microbial community of atmospheric Saharan dust in the Florida Keys*. Annual Meeting. Southeastern Branch of the American Society for Microbiology. Poster. Atlanta, GA.

Lydon, K.A. ▽ and **E.K. Lipp**. 2015. *Selection of Vibrio bacteria under pressure of triclosan in coastal ecosystems*. Southeastern Estuarine Research Society Meeting. Jacksonville, FL

Westrich, J.R. ▽, D.W. Griffin, **E.K. Lipp**. 2013. *Global connections: African desert dust effect on Vibrio bacteria in the Florida Keys*. One Health Symposium. Poster. Athens, GA

Kemp, D.W., **E.K. Lipp**, J. Wares, J. Porter. 2013. *Spatial homogeneity of microbial communities associated with the surface mucus layer of the reef building coral Acropora palmata*. Ecology and Evolution of Infectious Diseases NSF/NIH Principle Investigators' Meeting. Poster. Athens, GA

- Goodman, K.M.∇, A. Wong, **E.K. Lipp**. 2013. *Virulence genes and pathogenicity islands in Vibrio isolates cultured from diseased elkhorn coral*. Ecology and Evolution of Infectious Diseases NSF/NIH Principle Investigators' Meeting. Poster. Athens, GA.
- Frydenborg, B.∇, **E.K. Lipp**. 2012. *Bacteriophage influence on strains of Serratia marcescens*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Athens, GA.
- Joyner, J.L.∇, **E.K. Lipp**. 2012. *Marine sponges as biosentinels for sewage contamination in coastal environments*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Athens, GA.
- Nys, E.∇, K. Goodman∇, **E.K. Lipp**. 2012. *The use of the sea anemone Aiptasia pallida as a model organism for studying White Pox coral disease*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Athens, GA. *Best Oral Presentation Award – Undergraduate*.
- Westrich, J.R. ∇, D.W. Griffin, **E.K. Lipp**. 2012. *Vibrio response To Saharan dust in the Southeastern US*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Poster. Athens, GA.
- Frydenborg, B.∇, K. Goodman∇, N. Moore∇, F. Ahmadi∇, T. Misewicz∇, R. Perro∇, **E.K. Lipp**. 2012. *Monitoring levels of fecal indicator bacteria and Salmonella upstream and downstream of a constructed wetland*. Association of Southeastern Biologists, Annual Meeting. Athens, GA. (This was based on a research project conducted by students in EHSC 8310, Fall 2011)
- ***Lipp, E.K.**, K.P. Sutherland, J.W. Porter, J.L. Joyner∇, J.C. Futch∇ and E.E. Looney∇. 2011. *The emergence and environmental transmission of Serratia marcescens as a coral pathogen*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Gainesville, FL
- Crews, M.K.∇, **E.K. Lipp**. 2011. *Accumulation of enteric pathogens in the eastern oyster, Crassostrea virginica*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Gainesville, FL
- Joyner, J.L.∇, J.C. Futch∇, J. Westrich∇, D. W. Griffin and **E.K. Lipp**. 2011. *Enteric bacteria released by bathing tourists in the Dry Tortugas National Park, FL*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Gainesville, FL
- Crews, M.K. ∇, **E.K. Lipp**. 2011. *Accumulation of enteric pathogens in the eastern oyster, Crassostrea virginica*. Annual Meeting of the Southeastern Ecological Research Society. Athens, GA
- Turner, J. W. ∇, J. Westrich∇, E. V. Stabb and **E. K. Lipp**. 2010. *Attachment of Vibrio cholerae to an environmental host – the marine copepod*. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA. *Best Oral Presentation Award*.
- Joyner, J.L. ∇, **E. K. Lipp**. 2010. *Analysis of virulence genes in Serratia marcescens and potential association with coral pathogenesis*. Symbiofest –Symbiosis Symposium, Athens, GA.
- Joyner, J.L. ∇, **E. K. Lipp**, W. Fitt. 2010. *Does the species composition of symbiotic microbial communities for corals and sponges change with time and space?* 16th Annual Odum School of Ecology Graduate Student Symposium, Athens, GA.
- Westrich, J. ∇, J.W. Turner ∇and **E.K. Lipp**. 2010. *Ecological implications of iron flux on Vibrio cholerae*. Annual Meeting of the Southeastern Estuarine Research Society. Wilmington, NC. *Best Poster Award*
- Futch, J.C. ∇, D.W. Griffin and **E.K. Lipp**. 2009. *Identifying sources of sewage contamination in marine coastal waters through detection of human enteric viruses (Broward County, FL)*. Annual Spring Meeting, Southeast Estuarine Research Society. Myrtle Beach, SC.
- Turner, J.W. ∇, D. Guadagnoli, D. Cole, **E. K. Lipp**. 2009. *Plankton composition contributes to the seasonality of pathogenic Vibrio species*. Annual Spring Meeting, Southeast Estuarine Research Society. Myrtle Beach, SC.
- Malayil, L.∇., J.W. Turner∇ and **E.K. Lipp**. 2009. *Examination of reservoirs of the cholera toxin gene in coastal waters*. Annual Spring Meeting, Southeast Estuarine Research Society. Myrtle Beach, SC.
- ***Lipp, E.K.**. 2008. *Estuarine plankton communities as reservoirs for enteric microbes*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Jacksonville, FL

- Malayil, L., J.W. Turner and **E.K. Lipp**. 2008. *Evaluation of enrichment media for improved detection of V. cholerae and V. vulnificus from estuarine water and plankton*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Jacksonville, FL.
- Mote, B. and **E.K. Lipp**. 2008. *Association of the fecal indicator bacteria, enterococci, with natural estuarine plankton communities*. Annual Meeting, Southeastern Branch of the American Society for Microbiology. Jacksonville, FL.
- Vereen, E., R.R. Lowrance, D. Cole, and **E.K. Lipp**. 2007. *Seasonal and climate influences on prevalence of Campylobacter spp. in the Satilla River Basin*. Biomedical and Health Sciences Institute Spring Symposium: Climate, Ecology and Infectious Diseases, Athens, GA
- Griffith, M.L., D. Cole and **E.K. Lipp**. 2006. *Spatial-temporal analysis of fecal indicator bacteria and human viruses in shellfish harvesting waters of coastal Georgia*. Annual Meeting of the Southeastern Estuarine Research Society. Savannah, GA.
- Turner, J., D. Cole and **E.K. Lipp**. 2006. *Population dynamics and distribution of pathogenic Vibrio spp. in Georgia's shellfish harvesting waters*. Annual Meeting of the Southeastern Estuarine Research Society. Savannah, GA.
- ***Lipp, E.K.** and K.P. Sutherland. 2006. *Investigations of Serratia marcescens as a white pox pathogen in the Florida Keys*. 31st Annual Eastern Fish Health Workshop. Charleston, SC.
- *Griffin, D.W. and **E.K. Lipp**. 2005. *Wastewater and reef health in the Florida Keys*. US Geological Survey: Science in Florida. Orlando, FL.
- *Cole, D.J., S. Lance and **E.K. Lipp**. 2005. *Geographic distribution of Salmonella enterica serotypes associated with human disease in Georgia*. Southeast Branch ASM Annual Meeting. St. Petersburg Beach, FL.
- Haley, B.J., D.J. Cole and **E.K. Lipp**. 2005. *Environmental prevalence of Salmonella in a southeastern Georgia watershed*. Southeast Branch ASM Annual Meeting. St. Petersburg Beach, FL.
- Venton, J.C., D.W. Griffin and **E.K. Lipp**. 2005. *Prevalence and distribution of enteric microbiota in coral reefs and underlying groundwater, Florida, USA*. Southeast Branch ASM Annual Meeting. St. Petersburg Beach, FL.
- *Sutherland, K.P., J.W. Porter and **E.K. Lipp**. 2005. *Prevalence of the coral pathogen Serratia marcescens in wastewater and marine environments of the Florida Keys*. Special Session: Microbial Ecology. Southeast Branch ASM Annual Meeting. St. Petersburg, FL.
- *Sutherland, K.P., **E. K. Lipp**, and J. W. Porter. 2005. *Prevalence and potential origin of the acroporid serratiosis pathogen in the Florida Keys*. 30th Annual Eastern Fish Health Workshop. Shepherdstown, WV.
- Fong, T.T. and **E.K. Lipp**. 2003. *Molecular detection of waterborne human adenoviruses, human enteroviruses and bovine enteroviruses in the coastal reaches of the Altamaha River*. Southeast and South Carolina Joint Branch Meeting of the American Society for Microbiology, Athens GA.
- Vereen, E., R.R. Lowrance and **E.K. Lipp**. 2003. *Fate and ecology of Campylobacter spp. in a southeastern Georgia watershed*. Southeast and South Carolina Joint Branch Meeting of the American Society for Microbiology, Athens GA.
- ***Lipp, E.K.** 2002. *Wastewater contamination in South Florida and the Florida Keys: interfacing human and ecosystem health*. Southeastern Branch of the American Society for Microbiology Annual Meeting. Gainesville, FL
- ***Lipp, E.K.**, R. Vincent, J.B. Rose, R. Kurz and C. Rodriguez-Palaçios. 1998. *Water quality in Charlotte Harbor*. Annual meeting of the Florida Environmental Health Association. Cocoa Beach, FL.
- Lipp, E.K.** and J.B. Rose. 1997. *Water quality in Sarasota County, FL*. Annual Meeting of the Florida Environmental Health Association. Clearwater, FL.
- Lipp, E.K.**, R. Hammond and J.B. Rose. 1996. *Pathogenic Vibrio spp. in Florida waters*. Annual meeting of the Florida Academy of Sciences. Melbourne, FL

Meetings/Conferences Organized

- *Georgia Climate Conference*. 2019. Program Committee. Atlanta GA
- *Southeastern Biogeochemical Sciences*. 2017. Steering Committee. Athens, GA
- *Annual Meeting of the Southeastern Branch of the American Society for Microbiology*. 2012. Athens, GA (during term as President of the SE Branch ASM; primary conference organizer and fundraiser, >200 participants)
- *Evolution and Ecology of Infectious Disease Program (NSF/NIH), Annual PI Meeting*. 2013. Athens, GA (member, Planning Committee)

Sessions Convened or Moderated at International, National and Regional Meetings

- *Wastewater Information Highway*. 2020 ASM Microbe General Meeting. Chicago, IL. Session Organizer and Moderator
- *Microbial Contributions to the Earth's Atmosphere*. 2019 ASM Microbe General Meeting. San Francisco, CA. Session Organizer and Moderator
- *Pathogens in the Drink*. Rapid Fire Talks. 2018 ASM Microbe General Meeting. Atlanta, GA. Moderator
- *Microbial Interactions in Oceans and Human Health*. 2014 Ocean Sciences Meeting. Honolulu, HI. Convener
- *Role of Microbes in Environmental Sustainability*. 2013. 113th General Meeting of the American Society for Microbiology. Denver, CO. Convener
- *Sea Sickness: Ocean Health and Infectious Disease*. 2007. American Society for Microbiology 107th General Meeting, Toronto, Canada. Convener
- *The Ocean's Role in Human and Ecosystem Health: Global Processes and the U.S. Oceans and Human Health Initiative*. 2006. Ocean Sciences Meeting, American Society Limnology and Oceanography, American Geophysical Union and The Oceanography Society. Honolulu, HI. Convener
- *Water Quality Research in the 21st Century: Global Climate to Genomics*. 2005. Aquatic Sciences Meeting, American Society of Limnology and Oceanography. Salt Lake City, UT. Convener
- *Microbiology and Coral Disease: State of the Field*. 2005. American Society for Microbiology, 106th General Meeting. Atlanta, GA. (One of only two sessions selected by the General Microbiology Division) Convener
- *Microbial Ecology*. 2005. Southeast Branch ASM, Annual Meeting. St. Pete Beach, FL. Moderator

D. RECOGNITIONS AND OUTSTANDING ACHIEVEMENTS

Professional Awards / Recognition

- Fellow - American Academy of Microbiology (elected 2016)
- UGA Public Service and Outreach Faculty Fellow (2015/2016)
- Delta Omega, Honorary Society in Public Health (elected 2014)
- Excellence in Research Award, UGA College of Public Health (2014)
- Office of the Provost Summer Research Award, UGA (2013)
- Sackett Prize, Outstanding Research by Alumnus (University of South Florida, Marine Science) (2002)
- University of Georgia Research Foundation, Junior Faculty Research Grant (2002)

National and International Recognition

*Dr. Lipp's work and leadership in ecological determinants of health, water quality, waterborne infectious diseases and climate change has been widely recognized by national and international groups. (*denotes international recognition).*

Environment

- Appointed member. NSF Advisory Committee on Environmental Research and Education (2012 – 2016)
- Member of the American Meteorological Society Committee on Ecological Forecasting (Board on Enterprise Strategic Topics) (2013 – present)

- * Elected to chair the 2016 *Gordon Research Conference on Oceans and Human Health* (and co-chair for the 2014 *GRC*)

Water Quality and Waterborne Infectious Disease

- * Invited panelist and external expert for the CSIR (Council for Scientific and Industrial Research, South Africa) and European Union's Earth Observation and Environmental Modelling for the Mitigation of Health Risks Group. *Cholera and climate modeling in Uganda* (Pretoria, South Africa) (2013)
- * Invited participant and discussant on urban water quality issues. United Nations University and Gwanju Inst of Science and Technology (Gwanju, Korea) (2012)
- Invited expert reviewer for the US EPA *Revised Water Quality Criteria for Recreational Water*. One of a panel of six experts tasked to provide a critical assessment of the EPA's first revision of its water quality standard since 1986. (2011)
- Expert witness. Congressional testimony on HR 2452 *Raw Sewage Overflow Right to Know Act* (2007)
- U.S. Coral Reef Task Force/Southeast Florida Coral Reef Initiative. Technical Advisory Committee (Land Based Sources of Pollution and Water Quality Focus Area) (2003 – 2013)

Climate and Health

- Contributing Author (Invited). National Assessment for Climate and Health. Water-Related Illnesses (2013 – 2016)
- Invited participant to develop a system of health indicators for climate change as part of the on-going National Assessment of Climate Change. US Global Change Research Program / Health Indicators Technical Team (2013 - 2015)
- * Contributing author (Invited). IPCC (Intergovernmental Panel on Climate Change) *5th Assessment Report* (Chapter on Climate Change and Human Health) (2012 - 2014)
- * Invited member (for expertise in waterborne disease). *Public Health and Climate Change Advisory Committee*. Public Health Agency of Canada (2009 – 2011)
- The ENSO Experiment (NOAA Office of Global Programs). A focus group of ~20 scientists with the charge of evaluating the effects of climate variability on human health (1997 – 2000)

CONTRIBUTIONS TO TEACHING

Courses taught at UGA

Course #	Course Name (credit hours)	Terms taught
EHSC 4310/L	Environmental Microbiology (4 h)	Spring 03 - 19
EHSC 6010/8050	Proseminar in Environmental Health Science (1 h)	Spring 05, 09, 16, 18, 19
EHSC 6310/L	Environmental Microbiology (4 h)	Spring 03 - 19
EHSC 7010	Fundamentals of Environmental Health Science (3 h)	Maymester 19
EHSC 7310	Public Health Microbiology (3 h)	Fall 16
EHSC 8030	Seminar in Environmental Health (1 h)	2015, 2016, 2017, 2018
EHSC 8050	Proseminar in Environmental Health Science (1 h)	Spring 16, 18, 19
EHSC 8310	Aquatic Microbiology, Health & the Environment (3h)	Fall 06 - 19
EHSC 8100	Current Topics (1 h)	Spring 07
EHSC 8410	Oceans and Human Health (3 h)	Fall 08 - 14
ECOL 8050	Lab Group Meetings (1 h)	Fall/Spr 09 - 12
GRSC 7770	Graduate Teaching Assistant Seminar (1-3 h)	Fall 15, 18

- **Director**, Georgia Oceans and Health Initiative – doctoral training program in oceans and human health (2007 – 2012; NOAA)

- Collaborating faculty member and advisor, Interdisciplinary Disease Ecology Across Scales (IDEAS) – doctoral training program (2015 – 2020; NSF).
- Young Scholars Program (UGA College of Ag & Envir Sciences); high school juniors (2002 – 2004)
- Georgia State Science Fair competition (2007 - 2009); elementary & middle school participants
- NSF Research Experience for Undergraduates (REU) Programs (Microbiology and NSF supplement to Lipp for Evolution and Ecology of Infectious Disease)
- Undergraduate Directed Research, Depts. of Microbiology, Ecology, Genetics, and Environmental Health Science (>20 students since 2004); Senior Thesis, Dept. of Microbiology; CURO Scholars
- Master of Public Health (MPH) Internship Experiences and Capstone Projects (UGA) (2010 – present)

CONTRIBUTIONS IN SERVICE TO SOCIETY, THE UNIVERSITY AND THE PROFESSION

International Service

- 2012 – 2014 Contributing author, *IPCC 5th Assessment Report, Climate Change and Human Health*
- 2009 – 2011 Member, *Public Health & Climate Change Advisory Committee*. Public Health Agency of Canada
- 2007 Invited reviewer, *IPCC 4th Assessment Report, Climate Change and Human Health*

National Service

- 2019 – 2022 American Academy of Microbiology, Education Awards Selection Committee
- 2018 – 2020 American Society for Microbiology, Council on Microbial Sciences (COMS). Inter-divisional representative (elected)
- 2016 – 2019 Editorial Board Member, *Applied and Environmental Microbiology*
- 2015 – 2017 American Society for Microbiology, Divisional Councilor – At Large
- 2012 – 2016 Member, *NSF Advisory Committee for Environmental Research and Education (AC-ERE)*. Advisory committee to the NSF Director.
- 2013 – 2015 Invited expert, *US Global Change Research Program (National Climate Assessment), Health Indicators Technical Team*.
- 2011 Invited reviewer, *Revised Recreational Water Quality Guidelines*. US EPA
- 2007 Expert witness, U.S. House of Representatives, Congressional subcommittee on Water Resources and the Environment. Testified in hearing on HR 2452 *Raw Sewage Overflow Right to Know Act*.
- 2006 – 2008 Section author, Synthesis and Assessment Product (SAP) 4.6. *Effects of Climate Change on Human Health* (Water and foodborne diseases section). US Global Change Research Program and US EPA.
- 2003 – present Invited member, *Technical Advisory Committee (Land Based Sources of Pollution and Water Quality Focus Area)*. U.S. Coral Reef Task Force/Southeast Florida Coral Reef Initiative.

Regional Service

- 2019 – present Georgia Shellfish and Mariculture Advisory Panel
- 2014 – 2016 Advisory Committee, Georgia Environmental Protection Division
- 2010 – present Georgia Coastal Research Council, affiliate

Memberships in Professional Societies

American Society for Microbiology, American Society of Limnology and Oceanography, International Society of Microbial Ecology, and Southeastern Branch of the American Society for Microbiology

Leadership in Professional Societies

- 2016 – present Fellow, American Academy of Microbiology
- 2015 - 2020 Council Member, American Society for Microbiology

- 2012 – 2013 President, Southeast Branch American Society for Microbiology
2011 – 2012 President-Elect, Southeast Branch American Society for Microbiology
2010 – present Member, Public and Scientific Affairs Board (& Committee on Environmental Microbiology).
American Society for Microbiology

Other Leadership Positions

- 2014 Co-Chair, Gordon Research Conference in Oceans and Human Health

Reviewer for Funding Agencies

External Reviewer

- Alabama Sea Grant Program
- NSF, Biological Oceanography
- Florida Fish and Wildlife Conservation Commission
- NSF, Chemical Oceanography
- EPA STAR Graduate Fellowship (Global Climate Change)
- Louisiana Board of Regents (Research Competitiveness Grants)
- NSF / NIH, Centers for Oceans and Human Health
- CDC / UGA Seed Grant Program
- Center for Water Sciences (Michigan)
- Cooperative Inst. For Coastal and Estuarine Environmental Technology
- USDA/SBIR
- NOAA, National Undersea Research Program
- New York Sea Grant Program
- Wisconsin Sea Grant Program

Panel Reviewer

- NASA, Applied Sciences
- NSF, Biological Oceanography
- NSF, Graduate Research Fellowship Program
- NOAA, Oceans and Human Health
- EPA STAR Graduate Fellowship (Coastal and Ocean Processes)
- CDC
- National Sea Grant Program

Reviewer for Professional Journals

Ad hoc reviewer

American Journal of Tropical Medicine & Hygiene, Applied and Environmental Microbiology, Coral Reefs, Eco Health, Ecological Applications, Ecology Letters, Ecological Society of America, Environmental Health Perspectives, Environmental Microbiology, Environmental Science & Technology, Environmental Science & Technology Letters, Estuarine, Coastal & Shelf Science, FEMS Microbiology Ecology, FRONTIERS in Microbiology, International Journal of Biometeorology, International Journal of Environmental Health Research, International Society for Microbial Ecology (ISME) Journal, Journal of the American Water Works Association, Journal of Water and Health, Marine Pollution Bulletin, Microbial Ecology, PLoS One, Proceedings of the National Academy of Sciences, Scientific Reports, Water, Air and Soil Pollution, Water Research

Editorial Service Professional Journals

- 2016 – 2019 Associate Editor – *Applied and Environmental Microbiology*
2015 – present Special Feature Editor – *Elementa* (Oceans and Human Health)
2014 – present Associate Editor – *Frontiers in Public Health (Environmental Health)*

Reviewer for Book chapters

In Intergovernmental Panel on Climate Change (IPCC) 4th Assessment Report; Working Group II. April 2007.

Workshops (National and International)

- 2018 Invited participant. Coastlines and People (CoPe). NSF/UCAR. Scoping session.
- 2016 Invited participant. ATP-Based Detection of Organisms in Ballast Water. Naval Research Laboratory. Key West, FL.
- 2014 Invited Participant. Expert Consultation on the Effects of Climate Change of Children's Health. President's Task Force on Children's Environmental Health Risks and Safety Risks to Children. Subcommittee on Climate Change. Washington, DC.
- 2013 Invited participant, presenter and facilitator. CSIR (Council for Scientific and Industrial Research, South Africa) and EO2Heaven (Earth Observation and Environmental Modelling for the Mitigation of Health Risks; European Commission). *Cholera Workshop and Symposium* (and development of the Berg-en-Dal Group, for work on a cholera early warning system). Pretoria, South Africa
- 2012 Invited participant and presenter. NOAA/CDC Workshop. *Southeast National Climate Assessment Health Sector Meeting*. Charleston, SC
- 2011 Invited participant and facilitator. NSF Workshop. *Ecology of Marine Infectious Diseases*. San Juan, Puerto Rico
- 2010 Invited participant. USDA Workshop. *Pathogens in Rural Watersheds*. Cornell University, Ithaca, NY
- 2008 Discussion Leader. US EPA Workshop. *Approaches to Modeling the Health Impacts of Climate Change*. Washington, DC
- 2007 Invited participant. Centers for Disease Control and Prevention (CDC) workshop. *The Public Health Response to Climate Change: Drinking Water and Public Health*. Atlanta, GA.
- 2007 Invited Participant. US EPA Expert's Workshop on Recreational Water Quality Indicators and Criteria. Airlie Center, Warrenton, VA.
- 2004 Invited participant and rapporteur. American Academy of Microbiology Colloquium *From Outside to Inside: Environmental Microorganisms as Human Pathogens*. Portland, OR
- 1999 Invited participant, rapporteur and report co-author. American Academy of Microbiology Colloquium *Climate Change & Infectious Diseases: a Global Perspective*. Tucson, AZ

Outreach and Popular Press (since 2014)

- 2016 – present Faculty sponsor for SciREN-GA (Science Research and Education Network), founded by PhD student Maite Ghazaleh Bucher
- 2012 - present Provide water quality analyses for the Upper Oconee Watershed Network (volunteer and citizen scientist group in Athens GA)
- 2017 Research featured in BBC documentary "Dust Storm" (aired March 11, 2017; <http://www.bbc.co.uk/programmes/n3ct2ksx>)
- 2017 "What's in Your Water" interactive display for Athens Clarke County Annual WaterFest
- 2017 Hilsman Middle School (Athens GA) Science and Energy Team
- 2017 Work on coastal wastewater infrastructure and pollution featured in "The Water Will Come: Rising seas, sinking cities, and the remaking of the civilized world" by Jeff Goodell
- 2015 Lipp, E. K. (2015). Two Degrees: Does climate change contribute to disease? <http://www.cnn.com/2015/11/20/world/two-degrees-question-climate-change-and-disease/index.html>.

University Service

University of Georgia

- Review Committee, Graduate School (2019 – 2020)
- Search Committee, Dean of Graduate School (2019 - 2020)
- Faculty search committee, Biological oceanography (Skidaway Inst of Oceanography) (2019 – 2020)
- Faculty search committee, Marine microbial informatics (Marine Science & Inst of Bioinformatics) (2018-2019)
- University Post Tenure Review Appeals Committee (2017 – 2019, Chair 2019)
- University Promotion and Tenure Committee (2015 – 2017)

- Program Review Committee for UGA Marine Institute – Sapelo Island (2015 – 2016)
- Program Review Committee for UGA Dept. of Health Promotion (2015)
- Climate and Society Initiative, Steering Committee (2011 – present)
- Office of the Vice President for Research, Research Advisory Committee (2010 – 2013)
- University Facilities Committee (2010 – 2013)
- UGARF Faculty Research Grants – Review Committee (Applied Life Sciences) (2009 - 2012)
- Graduate Faculty, Area Committee for Appointments and Reappointments (2006 – 2009)
- University Council (2005 – 2008)
- UC Executive Committee (2005 – 2008), UC Faculty Affairs Committee (2005 – 2007), UC Faculty Benefits Committee (2005 – 2007), UC Faculty Conference (2005 – 2008)
- Water Resources Faculty (2002 – present)
- Faculty of the Environment (2006 – present)
- Ecology of Infectious Disease Initiative (Executive Committee) (2006 – 2009)
- Climate, Ecology and Infectious Disease Symposium Planning Committee (2007)

College of Public Health

- Curriculum and Academic Programs Committee (Chair) (2017, 2018, 2019)
- College Promotion and Tenure Committee (2016, 2017, 2019)
- Research Advisory Committee (2012 – present)
- C.E.P.H Re-Accreditation Working Group (2012, 2015, 2019)
- Strategic Planning Advisory Committee (2009 – 2010)
- Professional Degrees Committee (2008 – 2011), Dr.P.H. sub-committee (2009 – 2011)
- Promotion and Tenure Committee (2007 – present)
- Dr.P.H. Program Development Committee (2006)
- Dr.P.H. Advisory Committee (2006 – 2008)
- C.E.P.H. Accreditation Working Group (2006 – 2008)

Department of Environmental Health Science

- Departmental Promotion and Tenure Committee (2016 – present)
- Graduate Coordinator (2010 – present)
- Graduate Admissions Committee (2010 – present)
- Faculty search committees (2010 – 2012, 2014, 2015, 2018, 2019)
- Ph.D. Degree Development Committee (2008 – 2012), Chair (2009 – 2012)
- Coordinator for departmental web-site development and updates (2003 – 2010)

Departmental Graduate Coordinator Major Accomplishments

- Development of PhD program in Environmental Health Science (matriculated students beginning 2013)
- Graduate School Funding for Nature Master Class (\$25,000) – June 2018
- Graduate Recruitment Enhancement Awards (~\$1,000 per year, 2014 – 2018)
- Annual EHS Graduate Student Showcase (2014 – 2019)
- Development of graduate assessment plans and revisions (2014 and 2017) and annual reporting
- Graduate school awards to EHS students: Presidential Fellows (2015, 2018), GAIN Fellow (2017), GEAB Fellow (2019)