

# Jeffrey W. Turner

Curriculum Vitae

University of Washington  
Center for Environmental Genomics  
Seattle, WA 98112  
Phone: 206.550.9848  
[jeffturner8@gmail.com](mailto:jeffturner8@gmail.com)

---

## EDUCATION

- Ph.D. Odum School of Ecology, University of Georgia, Athens, GA 2010  
Dissertation: Distribution and seasonality of pathogenic *Vibrio* species  
in shellfish harvesting waters, Georgia, USA  
Advisor: Erin K. Lipp
- B.S. Chemistry, Mercer University, Macon, GA 1997

---

## ACADEMIC POSITIONS

- Postdoctoral Research Associate 2010 – current  
<sup>1</sup>Center for Environmental Genomics, University of Washington, Seattle, WA  
<sup>2</sup>NOAA's Northwest Fisheries Science Center, Seattle, WA  
Advisors: E. Virginia Armbrust<sup>1</sup> and Mark S. Strom<sup>2</sup>

---

## PUBLICATIONS

- Turner, Jeffrey W., Leena Malayil, Dominic Guadagnoli, Dana C. Cole and Erin K. Lipp (2013). Detection of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae* with respect to seasonal fluctuations in temperature and plankton abundance. *Environmental Microbiology* doi:10.1111/1462-2920.12246.
- Turner, Jeffrey W., Rohinee N. Paranjpye, Eric Landis, Narjol Gonzales-Escalona, William B. Nilsson, Stanley V. Biryukov and Mark S. Strom (2013). Population Structure of Clinical and Environmental *Vibrio parahaemolyticus* from the Pacific Northwest Coast of the United States. *PLoS ONE* **8** (2): e55726. doi:10.1371/journal.pone.0055726.
- Strom, Mark S., Rohinee N. Paranjpye, William B. Nilsson, Jeffrey W. Turner, and Gladys K. Yanagida (2013). Pathogen update: *Vibrio* species. In *Advances in Microbial Food Safety*. **1**: 97-113. J Sofos (ed), Woodhead publishink, Cambridge, U.K.
- Xu, Jiajie, Jeffrey W. Turner, Matthew Idso, Stanely V. Biryukov, Laurel Rognstad, Heng Gong, Mark S. Strom and Qiuming Yu (2013). *In situ* strain level distinction of *Vibrio parahaemolyticus* using surface enhanced Raman spectroscopy. *Analytical Chemistry* **85** (5): 2630–2637.
- Mote, Beth L., Jeffrey W. Turner and Erin K. Lipp (2012). Persistence and growth of the fecal indicator bacteria, enterococci, in detritus and natural estuarine plankton communities. *Applied and Environmental Microbiology* **78**: 2569-2577.

Jeffrey W. Turner

- Malayil, Leena, Jeffrey W. Turner, Beth L. Mote and Erin K. Lipp (2011). Evaluation of enrichment media for improved detection of *Vibrio cholerae* and *Vibrio vulnificus* from estuarine water and plankton. *Journal of Applied Microbiology* **110**: 1470-1475.
- Sutherland, Kathryn P., James W. Porter, Jeffrey W. Turner, Meredith K. Meyers, Monica L. Griffith, Jana C. Futch and Erin K. Lipp (2010). A unique strain of *Serratia marcesens* has been identified in both human sewage and in white pox lesions of the threatened Caribbean elkhorn coral, *Acropora palmata*, supporting the notion that humans are a likely source of this disease. *Environmental Microbiology* **12(5)**: 1122-1131.
- Turner, Jeffrey W., Brooks Good, Dana C. Cole and Erin K. Lipp (2009). Plankton composition and environmental factors contribute to *Vibrio* seasonality. *International Society of Microbial Ecology* **3**: 1082-1092.
- Tobin-D'Angelo, Melissa, Stepy Thomas, Dana C. Cole and Jeffrey W. Turner (2007). *Vibrio* in Georgia. *Georgia Epidemiology Report* **23**: 1-4.

## MANUSCRIPTS IN PREPARATION

---

- Turner, Jeffrey W., Sandip Paul, Chris Berthiaume, Rhonda Morales, Stanely V. Biryukov, Evgeni V. Sokurenko, E. Virginia Armbrust and Mark S. Strom (*In preparation*). Recombination and selection shape the diversity and evolution of *Vibrio parahaemolyticus*.
- Jason Westrich<sup>†</sup>, Jeffrey W Turner<sup>†</sup>, Mark S. Strom and Erin K. Lipp (*In preparation*). Biogeography of *Vibrio parahaemolyticus* O4:K12.
- Turner, Jeffrey W., Leena Malayil, Beth L. Mote, Karen Howe, Aaron Peck, Dana C. Cole and Erin K. Lipp (*In preparation*). Particulate organic matter and seasonal dynamics of *Vibrio* species in the South Atlantic Bight.
- Turner, Jeffrey W., Jason Westrich, Eric V. Stabb and Erin K. Lipp (*In preparation*). GFP and RFP tools shed light on the ecology of *Vibrio cholerae* and the marine copepod.
- Turner, Jeffrey W., Chris Berthiaume, Rhonda Morales, E. Virginia Armbrust and Mark S. Strom (*In preparation*). Comparative genomics and biogeography of *Vibrio Ex25*.

## SCIENTIFIC CONFERENCES

---

### Presentations

- Turner, Jeffrey W., Chris Berthiaume, Rhonda Morales, Stanely V. Biryukov, E. Virginia Armbrust and Mark S. Strom (2012). Comparative genomics of emergent *Vibrio parahaemolyticus* reveals new markers for improved virulence detection in Washington State. Gordon Research Symposium (GRS) on Oceans and Human Health (OHH), Biddeford, ME.

Jeffrey W. Turner

- Turner, Jeffrey W., Jason Westrich, Eric V. Stabb, Erin 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.
- Turner, Jeffrey W., Jason Westrich, Eric V. Stabb, Erin K. Lipp (2010). GFP and RFP tools for observing the attachment of *Vibrio cholerae* to the copepod host. NOAA's Oceans and Human Health Principle Investigator Meeting, Seattle, WA.
- Turner, Jeffrey W., Brooks Good, Dana C. Cole, Erin K. Lipp (2009). Plankton composition and environmental factors contribute to the seasonality of pathogenic *Vibrio* species. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.
- Turner, Jeffrey W., Brooks Good, Dana C. Cole, Erin K. Lipp (2009). Plankton composition contributes to the seasonality of pathogenic *Vibrio* species. Southeastern Estuarine Society, Coastal Carolina University, Conway, SC.
- Turner, Jeffrey W., Dana C. Cole, Erin K. Lipp (2008). Environmental factors affecting the status of plankton as a reservoir for *Vibrio* species. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.
- Turner, Jeffrey W., Dana C. Cole, Erin K. Lipp (2007). Seasonal dynamics of pathogenic *Vibrio* species in Georgia's coastal waters. Odum School of Ecology, Graduate Student Symposium, University of Georgia, Athens, GA.

### **Posters**

- Turner, Jeffrey W., Chris Berthiaume, Rhonda Morales, Stanely V. Biryukov, E. Virginia Armbrust and Mark S. Strom (2012). Comparative genomics of emergent *Vibrio parahaemolyticus* reveals new markers for improved virulence detection in Washington State. American Society of Microbiology (ASM), General Meeting, San Francisco, CA.
- Turner, Jeffrey W., Eric D. Landis, Rohinee N. Paranjpye, E. Virginia Armbrust and Mark S. Strom (2010). Genome-level characterization of *Vibrio parahaemolyticus*. *Vibrio in the Environment 2010*, Biloxi, MS.
- Turner, Jeffrey W., Leena Malayil, Beth L. Mote, Dana C. Cole and Erin K. Lipp (2009). Is *Vibrio cholerae* a plankton specialist? American Society of Microbiology (ASM), Philadelphia, PA.
- Turner, Jeffrey W., Leena Malayil, Dana C. Cole and Erin K. Lipp (2008). Temperature and reservoir shifts contribute to the seasonality of pathogenic *Vibrio* species. Gordon Research Conference (GRC) on Oceans and Human Health (OHH), Tilton College, Tilton, NH.
- Turner, Jeffrey W., Dana C. Cole and Erin K. Lipp (2008). Ecology of *Vibrio* species in shellfish harvesting waters with respect to seasonal changes and reservoir shifts. NOAA's Oceans and Human Health (OHH) Principle Investigator Meeting, Muskegon, MI.

Jeffrey W. Turner

- Turner, Jeffrey W., Dana C. Cole and Erin K. Lipp (2007). Detection of *Vibrio cholerae* and virulence-associated genes in a seasonally distributed *Vibrio* population in shellfish harvesting waters, Georgia, USA. Ecology of Infectious Disease Symposium, University of Georgia, Athens, GA.
- Turner, Jeffrey W., Dana C. Cole, Erin K. Lipp (2007). Detection of *Vibrio cholerae*, *ctxA* and *toxR* in a seasonally distributed *Vibrio* population in shellfish harvesting waters, Georgia, USA. American Society of Microbiology (ASM), Orlando, FL.
- Turner, Jeffrey W., Dana C. Cole and Erin K. Lipp (2007). Seasonal distribution of pathogenic *Vibrio* species in Georgia shellfish harvesting waters. Academy of the Environment, University of Georgia, Athens, GA.

## SEMINARS

---

- Turner, Jeffrey W., Stanly V. Biryukov, Eric D. Landis, Rohinee N. Paranjpye, William B. Nilsson, E. Virginia Armbrust and Mark S. Strom (2011). Genetic Diversity of *Vibrio parahaemolyticus* in the Pacific Northwest. Guest Lecture. WA State Department of Health, Tumwater, WA.
- Turner, Jeffrey W., Stanely V. Biryukov, Eric D. Landis, Rohinee N. Paranjpye, William B. Nilsson, E. Virginia Armbrust and Mark S. Strom (2011). Genetic Diversity of *Vibrio parahaemolyticus* in the Pacific Northwest. Oceans and Human Health (OHH) Seminar Series, University of Washington, Seattle, WA.

## GRANTS AND FELLOWSHIPS

---

- |                                                                          |      |
|--------------------------------------------------------------------------|------|
| • National Research Council (NRC) Research Associateship                 | 2011 |
| • NOAA Oceans and Human Health (OHH) Postdoctoral Fellowship             | 2010 |
| • NOAA Georgia Oceans and Health Initiative (GOHI) Graduate Fellowship   | 2009 |
| • Graduate Student Travel Grant, American Society for Microbiology (ASM) | 2009 |

## TEACHING EXPERIENCE

---

- Instructor of a one-week module in Marine Biology, University of Washington's School of Oceanography, Seattle, WA (Winter, 2013).
- Guest lecturer in Molecular Epidemiology and Infectious Disease, University of Washington's School of Public Health, Seattle WA (Spring, 2012).
- Instructor of a one-week module at the 3<sup>rd</sup> Summer Course on Environment and Human Health: Impact Assessment, City University of Hong Kong, Hong Kong, China (Summer, 2010).
- Teaching Assistant for Organic Chemistry and General Biology laboratory classes, Mercer University (1996-1997).

## SERVICE TO PROFESSION

---

- Manuscript review for the Journal of Microbiology, Microbial Ecology and Frontiers in Aquatic Microbiology (2010 – 2012).
- Mentor for students participating in the annual University of Washington Undergraduate Research Symposium (2010 – 2012).
- Coordinator of the joint Ocean's and Human Health seminar series, University of Washington's Pacific Northwest Center for Human Health and NOAA's West Coast Center for Oceans and Human Health (2010 – 2012).
- Mentor for students participating in the Research Experience for Undergraduates (REU), University of Georgia (Summer, 2009).

## WEBSITE

---

<http://armbrustlab.ocean.washington.edu/http%3A/%252Farmbrustlab.ocean.washington.edu/people/jeffturner>

## PROFESSIONAL MEMBERSHIPS

---

- American Society for Microbiology 2004-2013

## PROFESSIONAL REFERENCES

---

- E. Virginia Armbrust, Director School of Oceanography  
University of Washington  
Seattle, WA  
Phone: 206.616.1570  
Fax: 206.685.6651  
Email: [armbrust@u.washington.edu](mailto:armbrust@u.washington.edu)
- Mark S. Strom, Deputy Director  
NOAA Northwest Fisheries Science Center (NWFSC)  
Seattle, WA  
Phone: 206.860.3377  
Fax: 206.860.3467  
Email: [mark.strom@noaa.gov](mailto:mark.strom@noaa.gov)
- Dr. Erin K. Lipp, Associate Professor  
Department of Environmental Health Sciences  
University of Georgia, Athens, GA 30602  
Phone: 706.583.8138  
Fax: 706.542.7472  
Email: [elipp@uga.edu](mailto:elipp@uga.edu)