

**JEFFREY, TURNER W., Ph.D.**  
Department of Life Sciences  
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## EDUCATION

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- 2010            **Ph.D. in Microbial Ecology**, Odum School of Ecology  
University of Georgia, Athens, GA, USA
- 1997            **B.S. in Chemistry**  
Mercer University, Macon, GA, USA

## APPOINTMENTS

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- 2014 – present    **Assistant Professor**, Department of Life Sciences  
Texas A&M University – Corpus Christi, TX, USA
- 2012 – 2014       **Postdoctoral Research Associate**, Center for Environmental Genomics  
University of Washington, Seattle, WA, USA
- 2011 – 2012       **Postdoctoral Research Associate**, NAS National Research Council  
NOAA Northwest Fisheries Science Center, Seattle, WA, USA
- 2010 – 2011       **Postdoctoral Fellow**, PNW Center for Human Health and Ocean Studies  
University of Washington, Seattle, WA, USA

## GRANTS

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### Awarded:

- \$407,570            PI, **NIH Academic Research Enhancement Award (AREA)**. Occurrence and functional consequence of a novel prophage linked with the attenuation of virulence in pandemic O3:K6 *Vibrio parahaemolyticus*. Co-PI: Daniele Provenzano UTRGV. 2019 – 2022.
- \$33,000            Co-PI, **Coastal Bend Bays and Estuaries Program**. Oyster flood tracker: reconstructing inflows to reefs and effects on Dermo and *Vibrio vulnificus* loading. PI: Ben Walther. 2019 – 2020.
- \$47,558            PI, **Coastal Bend Bays and Estuaries Program (CBBEP)**. A bacterial source-tracking project for Little Bay. 2018 – 2019.
- \$20,000            PI, **Texas Comprehensive Research Fund (TCRF)**. Identification of microorganisms associated with the termination of a harmful algal bloom. 2017 – 2018.
- \$59,892            PI, **Coastal Bend Bays and Estuaries Program (CBBEP)**. A bacterial source tracking project to identify sources of fecal pollution at Cole and Ropes Park. 2017 – 2018.

\$45,284	PI, <b>Texas General Land Office Coastal Management Program (GLO-CMP)</b> . Assessing the fate of plastic debris in marine environments. 2016 – 2018.
\$20,000	PI, <b>Texas Research and Development Funding (TRDF)</b> . Assessing the fate of plastic debris in coastal environments. 2015 – 2016.
<b>Pending:</b>	
\$92,477	PI, <b>Texas General Land Office Coastal Management Program (GLO-CMP)</b> . Identification of microbiological and water quality drivers of brown tide in Baffin Bay. Co-PIs: Mike Wetz and Jessica Labonté TAMU-G. 2019 – 2021.
<b>In Review:</b>	
\$1,543,259	Co-PI, <b>NIH R1</b> . Microbial mat communities as novel sources of bioactive compounds. PI: Paul Zimba. 2020 – 2025.
\$204,453	Co-PI, <b>DOC National Ocean Service</b> . A holistic approach to assess the risk of microplastic fiber exposure in larval and juvenile marine fish. PI: Frauke Seemann. 2019 – 2021.
\$407,862	Co-PI, <b>DOD Research Instrumentation</b> . Acquisition of a Zeiss LSM800 confocal microscope for the enhancement of biomedical research model imaging. PI: Wei Xu. 2019 – 2020.

## **STUDENT SCHOLARSHIPS/FELLOWSHIPS**

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### **Awarded:**

\$2,000	Nicole C. Elledge, Ph.D. student, <b>Rising Scholar Scholarship</b> . 2018 – 2019.
\$800	Nicole C. Elledge, Ph.D. student, <b>Research Commercialization Office Student Grant Competition</b> . 2018 – 2019.
\$8,000	Lee J. Pinnell, Ph.D. student, <b>Texas Board of Higher Education Good Neighbor Scholarship</b> . 2018 – 2019.
\$940	Lee J. Pinnell, Ph.D. student, <b>International Society of Microbial Ecology Student Travel Grant</b> . 2018 – 2019.
\$1,887	Lee J. Pinnell, Ph.D. student, <b>Texas Sea Grant Grants-In-Aid of Research</b> . 2018 – 2019.
\$9,000	Nicole C. Elledge, Ph.D. student, <b>Eugene and Millicent Goldschmidt Award</b> . 2018 – 2019.
\$1,940	Nicole C. Elledge, Ph.D. student, <b>Texas Sea Grant Grants-In-Aid of Research</b> . 2017 – 2018.
\$1,000	Lee J. Pinnell, Ph.D. student, <b>Texas Sea Grant Grants-In-Aid of Research</b> . 2015 – 2016.

- \$42,000 Lee J. Pinnell, Ph.D. student, **National Sciences and Engineering Research Council of Canada (NSERC) Fellowship**. 2017 – 2019.
- \$1,410 James J. Tallman, M.S. student, **Texas Sea Grant Grants-In-Aid of Research**. 2015 – 2016.

## **PUBLICATIONS**

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Turner-mentored graduate student\*; Turner-mentored undergraduate student#  
i10-index of 6, Google Scholar Profile: <https://goo.gl/eKgd8W>

### **Peer-Reviewed Publications:**

14. Pinnell, Lee\* and **Jeffrey W. Turner** (*In Review*). Shotgun metagenomics reveals microbial response to plastic and bioplastic in a coastal lagoon. *Frontiers in Microbiology*
13. **Turner, Jeffrey W.**, James J. Tallman\*, Amanda Macias#, Lee J. Pinnell\*, Nicole C. Elledge\*, William B. Nilsson, Rohinee N. Paranjpye, E. Virginia Armbrust and Mark S. Strom (2018). Comparative genomic analysis of *Vibrio diabolus* and six synonyms: a first look at the distribution, diversity and potential virulence of the expanded species. *Frontiers in Microbiology* 9:1893. [doi:10.3389/fmicb.2018.01893](https://doi.org/10.3389/fmicb.2018.01893)
12. Conkle, Jeremy, Christian D. Báez Del Valle and **Jeffrey W. Turner** (2017). Are we underestimating microplastic contamination in aquatic environments? *Environmental Management* 61:1-8. [doi:10.1007/s00267-017-0947-8](https://doi.org/10.1007/s00267-017-0947-8)
11. Moreno, Emille#, Marci Parks#, Lee J. Pinnell\*, James J. Tallman\* and **Jeffrey W. Turner** (2017). Draft genome sequence of a *Vibrio harveyi* strain associated with vibriosis in Pacific white shrimp *Litopenaeus vannamei*. *ASM Genome Announcements* [doi:10.1128/genomeA.01662-16](https://doi.org/10.1128/genomeA.01662-16)
10. Collin, Betty\*, Lee J. Pinnell\*, James J. Tallman\* and **Jeffrey W. Turner** (2016). Draft genome sequences of one marine and one clinical *Vibrio parahaemolyticus* strain, both isolated from Sweden. *ASM Genome Announcements* 4(5):e01196-16. [doi:10.1128/genomeA.01196-16](https://doi.org/10.1128/genomeA.01196-16)
9. **Turner, Jeffrey W.**, Chris T. Berthiaume, Rhonda Morales, E. Virginia Armbrust and Mark S. Strom (2016). Genomic evidence of adaptive evolution in emergent *Vibrio parahaemolyticus* ecotypes. *Elementa: Science of the Anthropocene* 4:000117. [doi:10.12952/journal.elementa.000117](https://doi.org/10.12952/journal.elementa.000117)
8. William B. Nilsson and **Jeffrey W. Turner** (2016). The thermostable direct hemolysin-related hemolysin (*trh*) gene of *Vibrio parahaemolyticus*: Sequence variation and implications for detection and function. *Journal of Microbiological Methods* 126(2016): 1-7. [doi:10.1016/j.mimet.2016.04.007](https://doi.org/10.1016/j.mimet.2016.04.007)
7. **Turner, Jeffrey W.**, Leena Malayil, Dominic Guadagnoli, Dana C. Cole and Erin 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(4):1019-1028. [doi:10.1111/1462-2920.12246](https://doi.org/10.1111/1462-2920.12246)
6. **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](https://doi.org/10.1371/journal.pone.0055726)

5. 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. [doi:10.1021/ac3021888](https://doi.org/10.1021/ac3021888)
4. 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. [doi:10.1128/AEM.06902-11](https://doi.org/10.1128/AEM.06902-11)
3. 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. [doi:10.1111/j.1365-2672.2011.04996.x](https://doi.org/10.1111/j.1365-2672.2011.04996.x)
2. Sutherland, Kathryn P., James W. Porter, **Jeffrey W. Turner**, Meredith K. Meyers, Monica L. Griffith, Jana C. Futch and Erin 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. [doi:10.1111/j.1462-2920.2010.02152.x](https://doi.org/10.1111/j.1462-2920.2010.02152.x)
1. **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. [doi:10.1038/ismej.2009.50](https://doi.org/10.1038/ismej.2009.50)

#### **Non-Peer-Reviewed Publications:**

2. Woods, Megan<sup>#</sup> and **Jeffrey W. Turner** (2017). Characterization of a pathobiome contributing to a disease outbreak in Pacific white shrimp (*Litopenaeus vannamei*). *McNair Scholars Research Journal*.
1. Reustle, Joseph, Joe Pena, Kristina Schubert, Katherine Dorin, Jared Brandt, Nicole C. Elledge, Juan Olvera, Tiffany Hawkins and **Jeffrey W. Turner** (Fall 2017). A collection of STEM-inspired artwork and poetry. *Third Coast Science for You*.

#### **Book Chapters:**

1. Strom, Mark S., Rohinee N. Paranjpye, William B. Nilsson, **Jeffrey W. Turner**, and Gladys K. Yanagida (2013). Pathogen update: *Vibrio* species. *Advances in Microbial Food Safety*. **1**: 97-113. J Sofos (ed), Woodhead publishing, Cambridge, U.K.

#### **Reports:**

4. **Turner, Jeffrey W.**, Nicole C. Elledge\*, Hailey R. Wallgren, and Sandra M. Amend (2019). A bacterial source tracking project to identify sources of fecal pollution at Little Bay. *Coastal Bend Bays and Estuaries Program Final Report*.
3. **Turner, Jeffrey W.**, and Lee J. Pinnell (2018). Assessing the fate of plastic debris in the marine environment. *Texas General Land Office Final Report*. GLO Contract No. 17-177-000-9814.

2. **Turner, Jeffrey W.**, and Nicole C. Elledge\* (2018). A bacterial source tracking project to identify sources of fecal pollution at Cole and Ropes Parks. *Coastal Bend Bays and Estuaries Program Final Report*.
1. Tobin-D'Angelo, Melissa, Stepy Thomas, Dana C. Cole and **Jeffrey W. Turner** (2007). *Vibrio* in Georgia. *Georgia Epidemiology Report* **23**: 1-4.

## PRESENTATIONS

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Turner-mentored graduate student\*; Turner-mentored undergraduate student<sup>#</sup>

### Selected Invited Symposia:

11. **Turner, Jeffrey W.** (2018). Authentic research as a bridge between two- and four-year institutions. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
10. **Turner, Jeffrey W.** (2017). A biologist and a computer scientist walk into a bar. Academic Showcase at TAMU-CC Island Days, Corpus Christi, TX.
9. **Turner, Jeffrey W.** (2017). The 'flesh-eating' bacterium *Vibrio vulnificus*. Teen STEM Café, Texas State Aquarium, Corpus Christi, TX.
8. **Turner, Jeffrey W.** (2017). Deciphering cryptic genetic variation in clonal pathogenic bacterial species. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
7. **Turner, Jeffrey W.** (2016). Not all *Vibrio* are virulent – knowing the difference can prevent illness and optimize resource management. Coastal Bend Bays Foundation's Coastal Issues Forum. Del Mar College, Corpus Christi, TX.
6. **Turner, Jeffrey, W.** (2016). Genomic investigation of a *Vibrio parahaemolyticus* outbreak in the Pacific Northwest. UT Marine Science Institute (UTMSI), Port Aransas, TX.
5. **Turner, Jeffrey W.** (2015). Evolution of stress response in predominant *Vibrio parahaemolyticus* strains. Harte Research Institute (HRI) Seminar Series. Texas A&M University – Corpus Christi, TX.
4. **Turner, Jeffrey W.** (2014). Positive selection shapes the diversity of predominant *Vibrio parahaemolyticus* strains. Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat. Texas A&M University – College Station, TX.
3. **Turner, Jeffrey W.** (2014). Genomics analysis of predominant *Vibrio parahaemolyticus* sequence types. Texas A&M University – Galveston, TX.
2. **Turner, Jeffrey W.** and Mark S. Strom (2011). Genetic Diversity of *Vibrio parahaemolyticus* in the Pacific Northwest. Guest Lecture. Washington State Department of Health, Tumwater, WA.
1. **Turner, Jeffrey W.** 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.

### Selected Conference Oral Presentations:

19. Bachand, Paxton\*, Danial Nasr Azadani<sup>#</sup> and **Jeffrey W. Turner** (2018). Characterization of a culturable pathobiome contributing to a disease outbreak in Pacific white shrimp (*Litopenaeus vannamei*). American Association for the Advancement of Science (AAAS), Austin, TX.
18. Elledge, Nicole C. \*, Hailey Wallgren<sup>#</sup>, Sandra Marbach<sup>#</sup>, Collin O'Donnell<sup>#</sup> and **Jeffrey W. Turner** (2018). Assessing the impact of stormwater runoff on the prevalence of fecal indicator bacteria in an urbanized bay. American Association for the Advancement of Science (AAAS), Austin, TX.
17. Pinnell, Lee\* and **Jeffrey W. Turner** (2018). Nurdles for dinner? The microbial response to plastic and bioplastic in coastal waters. American Association for the Advancement of Science (AAAS), Austin, TX.
16. Azadani, Danial Nasr<sup>#</sup>, John Hatherhill, Daiyuan Zhang and **Jeffrey W. Turner** (2018). A novel bacteriophage for a promising viable alternative in the fight against antibiotic-resistant bacteria. American Association for the Advancement of Science (AAAS), Austin, TX.
15. Woods, Megan<sup>#</sup> and **Jeffrey W. Turner** (2018). Characterization of a pathobiome contributing to a disease outbreak in Pacific white shrimp (*Litopenaeus vannamei*). McNair Scholars National Meeting, College Station, MD.
14. Azadani, Danial Nasr<sup>#</sup>, **Jeffrey W. Turner** and Daiyuan Zhang (2017). Isolation and characterization of a novel *Enterococcus faecalis* bacteriophage Guche. SACNAS National Conference, Salt Lake City, UT.
13. Pinnell, Lee J.\* and **Jeffrey W. Turner** (2017). A tale of two nurdles: plastic-microbe interactions in Texas' coastal waters. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
12. Elledge, Nicole C. \*, Lee J. Pinnell\*, Ron I. Eytan and **Jeffrey W. Turner** (2017). A genomic analysis of white pox disease associated *Serratia marcescens*. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
11. Tallman, James J.\* and **Jeffrey W. Turner** (2016). Metagenomic investigation of antibiotic resistance in Texas Coastal Bays. Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat, Texas A&M University – Galveston, TX.
10. Elledge, Nicole\*, Ron I. Eytan and **Jeffrey W. Turner** (2016). Genomic analysis of *Serratia marcescens* associated with white pox disease in Elkhorn coral (*Acropora palmata*). Marine Biology Interdisciplinary Graduate Program (MARB-IDP) Retreat, Texas A&M University – Galveston, TX.
9. Pinnell, Lee\* and **Jeffrey W. Turner** (2016). Bacterial response to plastic in a lagoonal estuary. Marine Biology Graduate Student Symposium, Texas A&M University – Corpus Christi, TX.
8. Pinnell, Lee\* and **Jeffrey W. Turner** (2016). Bacterial response to plastic in a lagoonal estuary. American Society of Microbiology (ASM) Texas Branch Meeting, Dallas, TX.

7. **Turner, Jeffrey W.**, Chris Berthiaume, Rhonda Morales, Stanley 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.
6. **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.
5. **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.
4. **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.
3. **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.
2. **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.
1. **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.

**Selected Conference Poster Presentations:**

33. Azadani, Danial Nasr, Rob. J Hatherill, Daiyuan Zhang and **Jeffrey W. Turner** (2018). Isolation, characterization and genomic exploration of 'phiNASRA1' an *Enterococcus faecalis* bacteriophage. SACNAS National Conference, San Antonio, TX.
32. Zimba, Paul V., I-Shuo Huang, Sergei Shalygin, Lee J. Pinnell and **Jeffrey W. Turner** (2018). Microbial community structure differences in the hypersaline wind-tidal flats of Laguna Madre, TX, USA. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.
31. Planas-Costas, Githzette P., Megan Mullis\*, Reavelyn Pray<sup>#</sup>, I-Shuo Huang\*, Lee J. Pinnell\*, Gregory W. Buck, Lauren Turner, D.M. Toney, Gabriel Ramirez, Joanna Mott and **Jeffrey W. Turner** (2018). Genome-scale phylogenetic analysis of 43 environmental *Vibrio vulnificus* from the Texas Coastal Bend region of the northern Gulf of Mexico. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.
30. Elledge, Nicole C. \*, Hailey R. Wallgren<sup>#</sup>, Sandra Amend<sup>#</sup> and **Jeffrey W. Turner** (2018). Stormwater is a pulse disturbance that alters bacterial community composition in urbanized bays. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.

29. Pinnell, Lee J.\* and **Jeffrey W. Turner** (2018). Life on a nurdle: the microbial response to plastic and bioplastic in the Upper Laguna Madre, TX. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.
28. Bachand, Paxton\* and **Jeffrey W. Turner** (2018). Genomic analysis of Hep-1B-8, a novel *Vibrio* sp. isolated from aquacultured Pacific white shrimp (*Litopenaeus vannamei*) during a bacterial disease outbreak. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.
27. Tominack, Sarah\*, Sandra M. Amend<sup>#</sup>, Hailey R. Wallgren<sup>#</sup>, Lee J. Pinnell\* and **Jeffrey W. Turner** (2018). Genomic analyses reveal mechanisms of extreme osmoregulation in hypersaline Vibrionaceae. Texas Branch Meeting American Society of Microbiology (TX-ASM), Corpus Christi, TX.
26. Elledge, Nicole C.\*, Hailey Wallgren<sup>#</sup>, Sandra Marbach<sup>#</sup>, Collin O'Donnell<sup>#</sup> and **Jeffrey W. Turner** (2018). Assessment of stormwater impacts on bacterial community structure in an urbanized bay. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
25. Elledge, Nicole C.\*, Hailey Walgren<sup>#</sup>, Sandra Marbach<sup>#</sup> and **Jeffrey W. Turner** (2017). Assessing the effect of stormwater runoff on the prevalence of fecal indicator bacteria in an urbanized bay. Texas Branch Meeting American Society of Microbiology, College Station, TX.
24. Azadani, Danial Nasr<sup>#</sup>, **Jeffrey W. Turner** and Daiyuan Zhang (2017). Isolation and characterization of a novel *Enterococcus faecalis* bacteriophage for treatment of antibiotic-resistance bacteria. SACNAS National Conference, Salt Lake City, UT.
23. Pinnell, Lee J.\* and **Jeffrey W. Turner** (2017). A tale of two nurdles: how microbes respond to plastic and bioplastic in coastal waters. National Meeting Canadian Society of Microbiology (CSM), Toronto, Canada.
22. Parks, Marci<sup>#</sup>, Lee J. Pinnell\*, James J. Tallman\*, Rohinee Paranjpye and **Jeffrey W. Turner** (2017). The marine environment is a reservoir for highly virulent *Vibrio parahaemolyticus*. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
21. Morales, Jake<sup>#</sup>, Emily Noack<sup>#</sup>, Megan Woods<sup>#</sup>, Anamaria Montoya<sup>#</sup> and **Jeffrey W. Turner** (2017). Factors affecting the abundance of enterococci in two urbanized bays. Texas Branch Meeting American Society of Microbiology (TX-ASM), New Braunfels, TX.
20. Crockett, Patricia C., **Jeffrey W. Turner** and Christopher E. Bird (2017). Draft genome assembly of *Cellana sandwicensis*. Benthic Ecology Meeting Society, Myrtle Beach, SC.
19. Elledge, Nicole\*, Lee Pinnell, Ron Eytan and **Jeffrey W. Turner** (2017). Genomic analysis of *Serratia marcescens* associated with white pox disease in elkhorn corals. Benthic Ecology Meeting Society, Myrtle Beach, SC.
18. Nasr Azadani, Danial<sup>#</sup>, Rachael A. Bruce<sup>#</sup>, **Jeffrey W. Turner** and Daiyuan Zhang (2017). New methods for the isolation of *Enterococcus faecalis* phage from the marine



- environment. American Association for the Advancement of Science (AAAS) Annual Meeting, Boston, MA.
17. Nasr Azadani, Danial<sup>#</sup>, Rachael A. Bruce<sup>#</sup>, **Jeffrey W. Turner** and Daiyuan Zhang (2016). Development of new methods for the isolation of *Enterococcus faecalis* bacteriophage from the marine environment. American Society of Microbiology (ASM) Texas Branch Meeting, Dallas, TX.
  16. Tallman, James J.\*, Lee Pinnell\* and **Jeffrey W. Turner** (2016). Metagenomic Investigation of Antibiotic Resistance in the Marine Environment. SACNAS National Conference, Long Beach, CA.
  15. Nasr Azadani, Danial<sup>#</sup>, Rachael A. Bruce<sup>#</sup>, **Jeffrey W. Turner** and Daisy Zhang (2016). Development of new methods for the isolation of *Enterococcus faecalis* bacteriophage from the marine environment. SACNAS National Conference, Long Beach, CA.
  14. Thiyagarajan, Magesh, **Jeffrey W. Turner**, Lee Pinnell\*, James J. Tallman\* and Emille Moreno<sup>#</sup> (2016). Non-thermal atmospheric pressure air plasma treatment for food safety. IEEE International Conference on Plasma Science, Banff, Canada.
  13. Lovato, Devin<sup>#</sup>, **Jeffrey W. Turner**, Feri Billiot and Gregory Buck (2016). Antibacterial analysis of an isoleucine based surfactant. American Chemical Society (ACS) Meeting, San Diego, CA.
  12. Pinnell, Lee\*, James J. Tallman\*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genomic analysis of attenuation in pandemic *Vibrio parahaemolyticus*. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.
  11. Moreno, Emille<sup>#</sup>, Marci Parks<sup>#</sup>, Lee Pinnell\*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genomic analysis of two emergent *Vibrio parahaemolyticus* ecotypes. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.
  10. Parks, Marci<sup>#</sup>, Emille Moreno<sup>#</sup>, Lee Pinnell\*, James J. Tallman\*, Rohinee Paranjpye and **Jeffrey W. Turner** (2016). Genome sequencing and analysis of a highly virulent *Vibrio parahaemolyticus* strain isolated from the marine environment. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, New Orleans, LA.
  9. Macias, Amanda<sup>#</sup>, James J. Tallman\*, Rohinee Paranjpye and **Jeffrey W. Turner** (2015). Genomic comparison of *Vibrio antiquarius* isolated from deep-sea and coastal environments. American Society of Microbiology (ASM), General Meeting, New Orleans, LA.
  8. **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.
  7. **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.

6. **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.
5. **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.
4. **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.
3. **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.
2. **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.
1. **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.

## TEACHING

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### Graduate Courses:

MARB-6343 Oceans and Human Health  
 MARB-6590 Bioinformatics

### Undergraduate Courses:

BIOL-1406 Biology I  
 BIOL-2421 Microbiology

### Directed Independent Studies (DIS):

MARB-6596 Genome Assembly and Analysis  
 CMSS-6596 Genome Assembly and Analysis  
 BIMS-4396 Advanced Methods in Environmental Microbiology  
 BIOL-4396 Genome Assembly and Analysis  
 BIOL-4396 Elephant Conservation

### Guest Lectures:

BIOL-1406 Biology I  
 BIOL-1407 Biology II  
 MARB-6341 Evolution and Genomics of Marine Organisms  
 BIOL-2416 Genetics  
 BIOL-5417 Marine Microbial Ecology

BIOL-5436 Marine Ecological Processes  
OCEAN-250 Marine Biology, University of Washington, Seattle  
PATHOBIOLOGY-568 Infectious Disease, University of Washington, Seattle, WA  
3<sup>rd</sup> Summer Course Environment and Human Health, City University of Hong Kong

## **ACADEMIC ADVISING**

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### **Graduate Students Advised (as thesis chair):**

Nicole Elledge, Ph.D. MARB, Fall 2016 – current  
Lee Pinnell, Ph.D. MARB, Fall 2015 – current  
Paxton Bachand, M.S., Fall 2017 – current  
James J. Tallman, M.S., Fall 2015 – graduate  
Hailey R. Wallgren, M.S., Spring 2019 - current

### **Undergraduate Students Advised (as research mentor):**

Adriel R. Bruce, B.S. BIOL, Graduate, Attending PA school  
Danial Nasr, B.S. BIOL, Current, LSAMP Scholar  
Devin Lovato, B.S. CHEM, Current, Welch Scholar  
Amanda Macias, B.S. BIOL, Graduate, SOAR Scholar  
Sandra Marbach, B.S. BIOL, Current  
Emille Moreno, B.S. BIOL, Graduate, Attending UT–SAHS graduate school  
Colin O’Donnell, B.S. BIOL, Current  
Marci Parks, B.S. CHEM, Graduate  
Hailey Wallgren, B.S. BIOL, Current, Honors Program Research Fellowship  
Megan Wood, B.S. BIOL, Current, McNair Scholar  
Reavelyn Pray, B.S. BIOL, Current, LSAMP Scholar

### **Graduate Student Committees:**

Sarah Bortz, BIOL M.S., Current  
Kalman Bugica, MARB Ph.D., Current  
Patricia Cockett, CMSS Ph.D., Current  
Xin Ding, MARB Ph.D., Current  
Meredith Diskin, MARB Ph.D., Current  
Ken Hayes, MARB M.S., Current  
Katherine Martin, CMSS, M.S., Current  
Megan Mullis, MARB Ph.D., Current  
Joseph Reustle, MARB Ph.D., Current  
Jennifer M. Savicky, MARB M.S., Graduate  
Morgan Sobol, MARB M.S., Current  
James J. Tallman, MASB M.S., Graduate, Attending Baylor College of Medicine

### **Commitment to STEM Participation:**

TAMU-CC Honors Program Mentor  
McNair Scholar Program  
First in the World/STEM Supplemental Instruction Project (FITW-SIP)  
NSF’s Elementary Teachers Engaged in Authentic Math and Science (ETEAMS)  
Del Mar College workshop entitled Mentoring Undergraduate Research

Louis Stokes Alliances for Minority Participation (LSAMP)  
STEM Outreach, Access and Retention (SOAR) Program  
Pathways Student Research Symposium  
Instructor for Science Olympiad  
University of Washington Undergraduate Research Symposium  
Research Experience for Undergraduates (REU) at University of Georgia

## **PROFESSIONAL SERVICE**

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### **Internal:**

**University committees.** Steering Committee (2017 – present), Health and Safety Committee (2016 – present)

**Student organizations.** Faculty advisor for the Islander Green Team (2016 – Present)

**Student recruitment.** Island Days (2015 – Present), Islander Orientation (2018)

**Symposia judge.** Pathways Student Research Conference (2015)

**Events.** Instructor for the Bio-Process event at Science Olympiad (2015)

**Boards.** Genomics Core Facility Board Member (2015 – Present)

**Workshops.** Co-facilitator for workshop of Student Centered Classrooms (2017)

**Faculty search committees.** Marine Biomedical Scientist (2018), Life Sciences Department Chair (2016), Watershed Ecologist (2015)

**Department committees.** Committee for Excellence in the Preparation of Teachers (2017 - Present)

**Marine Biology program committees.** Graduate Admissions Council (GRAC) (2017 – Present)

### **External:**

**Professional meeting organizer.** Lead organizer for the TX Branch Meeting of the American Society for Microbiology (TX-ASM) to be held at TAMU-CC Fall 2018

**Ad hoc reviewer.** NSF Division of Ocean Sciences, Sea Grant (New Hampshire and Virginia), and Texas Academy of Sciences

**Editorial board.** Frontiers in Environmental Health (2016 – present)

**Manuscript reviewer.** Applied and Environmental Microbiology (AEM), Journal of Microbiology, Microbial Ecology, Frontiers in Aquatic Microbiology, Federation of European Microbiological Society (FEMS), Frontiers in Environmental Science and Public Health (2010 – present)

**Symposia judge.** Texas Branch American Society of Microbiology (2017), American Society of Microbiology (2016), Texas Branch American Society of Microbiology (2016), Marine Biology Research Symposium (2015 – present)

**Community engagement.** Oso Bay & Oso Creek Coordination Committee, Cole and Ropes Park Coordination Committee (2015 – present), Coastal Bend Bays and Estuaries Program Water and Sediment Quality Implementation Team (2015 – present)

**Seminar coordination.** Coordinator of the Ocean and Human Health Seminar Series at University of Washington’s Pacific Northwest Center for Human Health (2010 – 2012)

## WORKSHOPS

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**Attendee.** Teaching and Instruction in Student-Centered Classrooms at Texas A&M University – Corpus Christi (2017), Facilitated by Drs. Cherie McCollough and Benjamin Walther

**Attendee.** National Academies Summer Institute on Undergraduate Education at Louisiana State University (2015), Challenge-Based Instruction at University of Texas – Rio Grande Valley (2015), New Faculty Seminar Series at Texas A&M University – Corpus Christi (2015 – 2016), Best Practices for Online Course Design at Texas A&M University – Corpus Christi (2015)

## PROFESSIONAL MEMBERSHIPS

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American Chemical Society (ACS), American Society of Limnology and Oceanography (ASLO), American Society for Microbiology (ASM), International Society for Microbial Ecology (ISME), Texas OneGulf Network of Experts (TONE), Society for Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS), Surfrider Foundation

## PRESS

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- Community College Daily press release about collaborative bacteriophage research with Del Mar College. **The virus hunters.** <https://vikingnews.delmar.edu/the-virus-hunters-del-mar-college-students-discover-organisms-that-are-new-to-science/>
- TAMU–CC press release about plastic pollution research. **Experiment seeks to ID plastic-eating microorganisms** (2016). <https://tamucc.edu/news/2016/05/032416%20Plastic%20Capsule.html#.XA6ThxNKgUE>  
<https://www.flickr.com/photos/80429560@N03/sets/72157666306799144>
- Interview with local KRISTV news station about plastic pollution research. **Solving plastics pollution** (2016). <https://goo.gl/s0nmT9>.
- Local news article about **articulation agreement** between Del Mar College and TAMU-CC. <http://www.kiiitv.com/news/local/del-mar-college-signs-biotechnology-agreement-with-tamucc/488144643>
- TAMU–CC press release about plastic pollution research. **Island university PhD student studies plastic-eating microbes.** [http://www.tamucc.edu/news/2018/02/021918\\_Plastic\\_Research\\_Laguna\\_Madre.html#.WoxZr1XwYy4](http://www.tamucc.edu/news/2018/02/021918_Plastic_Research_Laguna_Madre.html#.WoxZr1XwYy4)
- TAMU-CC press release about bacterial source-tracking research and Goldschmidt scholarship.

[https://www.tamucc.edu/news/2018/11/110518\\_Microbiology\\_Conference.html#.XA6SXBNKgUF](https://www.tamucc.edu/news/2018/11/110518_Microbiology_Conference.html#.XA6SXBNKgUF)

- TAMU-CC press release about the Texas Branch Meeting of the American Society for Microbiology meeting held at TAMU-CC.

[https://www.tamucc.edu/news/2018/11/111618\\_microbiology\\_conference\\_postevent.html#.XA6SxxNKgUE](https://www.tamucc.edu/news/2018/11/111618_microbiology_conference_postevent.html#.XA6SxxNKgUE)