

## **Jennifer F. Biddle**

University of Delaware  
School of Marine Science and Policy  
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## **Professional Preparation**

B.S. with honors, 1999, Biotechnology, Rutgers University  
Ph.D., 2006, Dept. of Biochemistry and Molecular Biology, The Pennsylvania State University

## **Appointments**

Assistant Professor, 2010-  
University of Delaware, College of Earth, Ocean, and Environment, Lewes, DE  
Postdoctoral researcher, 2007-2009  
Laboratory of Andreas Teske, Dept. of Marine Sciences, UNC Chapel Hill, NC  
Postdoctoral researcher, 2006-2007  
Laboratory of Christopher House, Dept. of Geosciences, Penn State University, PA  
Graduate Research Fellow 2002-2006  
Laboratory of Jean Brenchley, Dept. of Biochemistry, Penn State University, PA  
Teaching Assistant, 2000-2002  
Dept. of Biochemistry and Molecular Biology, Penn State University, PA  
Research Assistant, 1999-2000  
Laboratory of S. Jane Flint, Dept. of Molecular Biology, Princeton University, NJ

## **Five Most Relevant Products**

William Orsi, Virginia Edgcomb, Glenn Christman, **Jennifer F. Biddle** (2013) *Gene expression in the deep biosphere*. Nature, doi:10.1038/nature12230

**Jennifer F. Biddle**, James Robert White, Andreas P. Teske, Christopher H. House (2011) *Metagenomics of the subsurface Brazos-Trinity Basin (IODP site 1320): comparison with other sediment and pyrosequenced metagenomes*. ISME J., 5, 1038–1047

Karen G. Lloyd, Daniel B. Albert, **Jennifer F. Biddle**, Jeffrey P. Chanton, Oscar Pizarro, Andreas Teske (2010) *Spatial structure and activity of sedimentary microbial communities underlying a Beggiatoa spp. mat in a Gulf of Mexico hydrocarbon seep*. PLoS One, 5(1):e8738.

**Jennifer F. Biddle**, Sorel Fitz-Gibbon, Stephan C. Schuster, Jean E. Brenchley, Christopher H. House (2008) *Metagenomic signatures of the Peru Margin seafloor biosphere*. PNAS, 105(30):10583-10588.

**Jennifer F. Biddle**, Julius S. Lipp, Mark Lever, Karen Lloyd, Ketil Soerensen, Rika Anderson, Helen F. Fredricks, Marcus Elvert, Timothy J. Kelly, Daniel P. Schrag, Mitchell L. Sogin, Jean E. Brenchley, Andreas Teske, Christopher H. House, Kai-Uwe Hinrichs (2006) *Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru*. PNAS, 103(10):3846-3851.

### **Five Other Significant Products**

**Jennifer F. Biddle**, Zena Cardman, Howard Mendlovitz, Daniel B. Albert, Karen G. Lloyd, Antje Boetius, Andreas Teske (2011) *Anaerobic oxidation of methane at different temperature regimes in Guaymas Basin hydrothermal sediments*. ISME Journal doi:10.1038/ismej.2011.164

Virginia Edgcomb, David Beaudoin, Rebecca Gast, **Jennifer F. Biddle**, Andreas Teske (2010) *Marine subsurface eukaryotes: the fungal majority*. Environmental Microbiology doi: 10.1111/j.1462-2920.2010.02318.x

Yu-Shih Lin, **Jennifer F. Biddle**, Julius Lipp, Beth Orcutt, Thomas Holler, Andreas Teske, Kai-Uwe Hinrichs (2010) *Effect of storage conditions on archaeal and bacterial communities in subsurface marine sediments*. Geomicrobiology Journal 27(3):261-272

**Jennifer F. Biddle**, Christopher H. House, Jean E. Brenchley (2005) *Microbial stratification of deeply buried marine sediment reflects changes in sulfate/methane profiles*. Geobiology, 3:287-295.

**Jennifer F. Biddle**, Christopher H. House, Jean E. Brenchley (2005) *Enrichment and cultivation of microorganisms from sediment from the slope of the Peru Trench (ODP Site 1230)*. In Jørgensen, B.B., D'Hondt, S.L., Miller, D.J. (Eds.), Proc. ODP, Sci. Results, 201. [http://www-odp.tamu.edu/publications/201\\_SR/107/107.htm](http://www-odp.tamu.edu/publications/201_SR/107/107.htm).

### **Synergistic Activities**

Organizer, EU-US Bioinformatics short course (2012, 2013)

Proposal Evaluation Panel, IODP (2011-2014)

Member of American Geophysical Union

Assistant Editor for Frontiers in Extreme Microbiology

Assistant Editor for Marine Genomics

### **Collaborators & Other Affiliations**

Virginia Edgcomb (Woods Hole Oceanographic Institution)

Christopher House (Pennsylvania State University)

Karen Lloyd (Univ of Tennessee-Knoxville)

Barbara MacGregor (UNC Chapel Hill)

Andreas Teske (UNC Chapel Hill)

James R. White (Univ. of Maryland)

### **Graduate Adviser**

Jean E. Brenchley, Pennsylvania State University

### **Postdoctoral Advisers**

Christopher House, Pennsylvania State University

Andreas Teske, UNC Chapel Hill

### **Students Advised (5 total advised)**

Bingran Cheng (MS 2013)

Joseph Russell (MS Bypass, PhD expected 2015)

Sarah Woehlke (REU Summer Intern 2011)

Megan Nogen (Summer Intern 2012)

William Orsi (coadvised postdoctoral with V. Edgcomb, 2011-2013)