

**JENNIFER F. BIDDLE**  
**Curriculum Vitae**

School of Marine Science and Policy  
The University of Delaware  
700 Pilottown Road  
Lewes, DE 19958 USA

Phone: 302.645.4267  
Fax: 302.645.4007  
Email: jfbiddle@udel.edu  
@subsurface\_life, @BiddleLab

**PROFESSIONAL PREPARATION**

Ph.D., 2006, Dept. of Biochemistry and Molecular Biology, The Pennsylvania State University  
Dissertation: *Microbial populations and processes in subseafloor marine environments*  
B.S. with honors, 1999, Biotechnology, Rutgers University

**APPOINTMENTS**

Associate Professor, 2017-current  
University of Delaware, College of Earth, Ocean and Environment, Lewes, DE  
Assistant Professor, 2010-2017  
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 2000-2006  
Laboratory of Jean Brenchley, Dept. of Biochemistry, Penn State University, PA

**HONORS AND AWARDS** (\*Honors at UD)

\*International Ocean Drilling Program Distinguished Lecturer (2013-2014)  
\*Named inspirational young woman in microbiology (2013)  
[https://mobio.com/blog/Inspiring\\_Women\\_Scientists\\_in\\_Microbiology\\_and\\_Ecology/](https://mobio.com/blog/Inspiring_Women_Scientists_in_Microbiology_and_Ecology/)  
NASA Postdoctoral Fellowship – National Astrobiology Institute (2007-2009)  
Wedler Outstanding Doctoral Dissertation Award, Penn State BMB Department (2007)  
Schlanger Ocean Drilling Program Fellowship, Joint Oceanographic Institutions (2003-2004)  
NASA Space Grant Fellowship, Pennsylvania Space Grant Consortium (2002-2006)  
IGERT PhD Fellowship, Biogeochemical Research Initiative in Education (BRIE) (2002-2005)  
NASA-JPL Committee Member Astrobiology Field Lab – Science Steering Group (2004)

**FIVE RELEVANT PUBLICATIONS**

(ISI ID: F-8323-2010, h-index=16, 1/28/18; Google scholar h-index=19, citations=2201 1/24/18)

1. Russell JA\*, León-Zayas R\*, Wrighton K, **Biddle JF**. 2016. Deep subsurface life from North Pond: enrichment, isolation, characterization and genomes of heterotrophic bacteria. *Frontiers in Microbiology* 7:678.
2. Ruff SE, **Biddle JF**, Teske AP, Knittel K, Boetius A, Ramette A. 2015. Global dispersion and local diversification of the methane seep microbiome. *Proceedings of the National Academy of Sciences USA* 112 (13): 4015-4020.
3. Orsi W\*, Edgcomb VP, Christman G\*, **Biddle JF**. 2013. Gene expression in the deep biosphere. *Nature* 499, 205-208.
4. **Biddle JF**, Fitz-Gibbon S, Schuster SC, Brenchley JE, House CH. 2008. Metagenomic signatures of the Peru Margin subseafloor biosphere show a genetically distinct environment. *Proceedings of the National Academy of Science (USA)*, 105(30) 10583-10588.

5. **Biddle JF**, Lipp JS, Lever MA, Lloyd KG, Sørensen KS, Anderson R, Fredricks HF, Elvert M, Kelly TJ, Schrag DP, Sogin ML, Brenchley JE, Teske A, House CH, Hinrichs K-U. 2006. Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru. Proceedings of the National Academy of Science (USA) 103(10):3846-3851.

## **FUNDING HISTORY**

**Participant in \$3,151,380 worth of grants awarded to date**

**Major research direct grants to Biddle as PI or coPI: \$2,108,009**

**Grants focused on fellowships, education or Biddle in lesser role: \$1,043,371**

## **PROFESSIONAL SERVICE**

- Creator and organizer, MicroSeminar, an online freely available and archived seminar series with international participation (2014-) [microseminar.wordpress.com](http://microseminar.wordpress.com)
- Senior Editorial Board, International Society of Microbial Ecology (ISME) Journal (2015-)
- Associate Editor, Frontiers in Extreme Microbiology
- Editorial Board, Marine Genomics
- Editorial Board, Geobiology
- Editorial Board, Applied and Environmental Microbiology
- Review Editor, Frontiers in Aquatic Microbiology
- R/V Joides Resolution Facilities Assessment Workshop Steering Committee (2016-2017)
- AGU Fall Meeting Program Committee (2014-2017)
- Deep Carbon Observatory, Deep Life Scientific Advisory Committee (2014-)
- Proposal Evaluation Panel, International Ocean Drilling Program (2011-2014)
- CDEBI Social Media Training Seminar (2014, 2017)
- EU-US Bioinformatics Training Workshop, Instructor (2012, 2013)
- EU-US Biotechnology Task Force, Marine Metagenomics (2011)
- Head of Postdoctoral Committee, C-DEBI, NSF Science and Technology Center (2011-2014)
- Reviewer for: Geobiology, ISME J, Environmental Microbiology, Nature Geosciences, Frontiers in Aquatic Microbiology, Frontiers in Extreme Microbiology, Deep Sea Research, Science, Nature Microbiology, AEM
- Hosted visiting students: Samuel Payler, University of Edinburgh (2 weeks visit March 2014), Molly McCargar, Columbia University (2 week visit Feb 2014), Lauren Seyler, Rutgers University (1 week visit Sept 2014), Cassandre Lazar, University of North Carolina (1 week 2013).
- Organized sessions at 2014 Goldschmidt, 2013-2014 Fall Meeting of AGU, 2014 Ocean Sciences

## **Postdoctoral Advisees \*denotes current activity**

Dr. William Orsi (coadvised with Dr. Virginina Edgcomb), Dr. Lisa Waidner, Dr. Rosa León-Zayas, Dr. Rui Zhao\*, Dr. Sabrina Beckmann\*

## **Graduate Advisees \*denotes current activity**

Bingran Cheng, Dr. Joseph Russell, Ian Rambo, Kristin Yoshimura\*, Kaliopi Bousses\*, Cassandra Harris\*, LeAundra Jeffs\*

## **FIELD and IODP RESEARCH EXPERIENCE**

2007 R/V Cape Hatteras, Gulf of Mexico

2008, 2009 R/V Atlantis (with Alvin), Guaymas Basin

2009 MSM Maria Merian, Transatlantic/North Pond

2009 TMI International, Brooks McCall, Gulf of Mexico

2011, 2013 Pavilion Lake Research Project (with DeepWorkers), British Columbia

2011 Shorebased participant on IODP Expedition 336, North Pond

2012 Shorebased participant on IODP Expedition 339, Mediterranean Outflow

2012 Shorebased participant on IODP Expedition 342, Newfoundland Margin