Appendix B. Active Grants and Fellowships

I. Small Research Grants: Phase I
1. Chris House and Leah Brandt (Pennsylvania State University) Investigating the active microbial community members as a function of temperature in a hydrothermal subsurface, 2/1/13 - 1/31/16, $50,000
3. Karyn Rogers (Rensselaer Polytechnic Institute), David Fike (Washington University in St. Louis), and Brian Glazer (University of Hawaii) Cryptic anaerobic metabolisms in the deep subsurface, 5/1/14 - 12/31/16, $49,891
4. Virginia Edgcomb and Maria Pachiadaki (Woods Hole Oceanographic Institution) Exploring the ecological role(s) of marine fungi in the deep subseafloor, 6/1/14 - 5/31/16, $49,967

Special Biomolecular Grants
5. Alfred Spormann (Stanford University) A new tool for rapidly screening single cells from deepsea subsurface environments for genomic identification, 9/1/13 - 8/31/16, $150,000

Special Synthesis-Field Programs Grants
7. Frederick Colwell and Andrew Thurber (Oregon Station University) Edginess in the subsurface: Microbial diversity of deep subseafloor ecotones, 4/1/15 - 8/31/16, $80,466
8. Eric Boyd and Maximiliano Amenabar (Montana State University) Defining the interplay between oxygen, organic carbon, and metabolism in subseafloor sediment communities, 4/1/15 - 12/31/16, $99,360
Susan Lang (University of South Carolina) and Matthew Schrenk (Michigan State University) Bioenergetic influences upon carbon flow in alkaliphilic sulfate-reducing microbial populations with relevance to the subsurface biosphere at the Lost City Hydrothermal Field, 4/1/15 - 3/31/17, $110,000
9. Grieg Steward and Olivia Nigro (University of Hawaii at Manoa) Genomic and proteomic characterization of uncultivated viruses from large-volume samples of crustal fluids from the Juan de Fuca Ridge Flank, 4/1/15 - 3/31/17, $63,225
10. Andreas Teske (University of North Carolina Chapel Hill), Ivano Aiello (Moss Landing Marine Laboratory), and Christina Ravelo (University of California at Santa Cruz) Characterizing subseafloor life and environments in the Guaymas Basin, 4/1/15 - 3/31/17, $114,962

II. Small Research Grants: Phase II
3. Anne Dekas (Stanford University) Determining the identities and single-cell activity rates of diazotrophic microorganisms in deep-sea sediments, 5/1/2016 - 4/30/2017, $74,222

4. Susan Lang (University of South Carolina) Direct access to the serpentinite subsurface: a biogeochemical investigation of fluids to characterize a unique habitat, 5/1/2016 - 4/30/2017, $79,972

5. Wiebke Ziebis (University of Southern California) and Karsten Zengler (University of California San Diego) Exploring microbial diversity in sediments underlying oligotrophic gyres, 5/1/2016 - 4/30/2017, $49,244

III. Graduate Fellowships

Phase I:

1. Adrienne Hoarfrost (Arnosti Laboratory, University of North Carolina, Chapel Hill) Investigating microbial activities driving organic matter transformations in the deep subsurface, 5/16/14 - 5/15/16, $64,000

2. Leah Brandt (House Laboratory, Pennsylvania State University) An in-depth analysis of the subvent biosphere within the Okinawa backarc basin Iheya North hydrothermal field, 6/1/14 - 5/31/16, $64,000

3. Alexander Michaud (Priscu Laboratory, Montana State University) Microbial carbon cycling beneath the West Antarctic Ice Sheet, 8/1/14 - 5/31/16, $62,000

4. Cara Magnabosco (Onstott Laboratory, Princeton University) Analytical tools for cross metagenome comparisons, 9/1/14 - 8/31/16, $64,000

Phase II:

5. Tucker Ely (Shock Laboratory, Arizona State University) 3D Spatial mapping of the energetic return of 1000 metabolisms within the compositional variation of oceanic crusts near mid-ocean ridges, 5/10/16 - 5/9/2017, $74,234

6. Emily Estes (Hansel Laboratory, Woods Hole Oceanographic Institution) Geochemical controls on organic carbon quantity and quality in the deep subsurface, 6/1/16 - 5/31/17, $33,000

IV. Postdoctoral Fellowships

Phase I:

1. Olivia Nigro (Grieg Steward Laboratory, University of Hawaii) Ph.D. Oceanography, University of Hawaii (2012) Characterizing viruses and their influence on the microbial community within the basement fluids of the Juan de Fuca Ridge flank, 4/1/14 - 3/31/16, $120,000

2. Carolyn Buchwald (Scott Wankel Laboratory, Woods Hole Oceanographic Institution) Ph.D. Chemical Oceanography, MIT/WHOI Joint Program (2013) Determining the rates of denitrification, nitrification, and nitrogen fixation using natural abundance isotope profiles in North Pond sediments, 6/1/14 - 5/31/16, $120,000

3. Donato Giovannelli (Vetriani Laboratory, Rutgers University) Ph.D. Applied Biology, Ecology and Microbiology, University of Naples (2013) Alternative carbon fixation strategies in the model organism Thermovibrio ammonificans: A model system to study energy limitation in the deep biosphere, 6/1/14 - 5/31/16, $120,000
4. **Roland Hatzenpichler** (Orphan Laboratory, California Institute of Technology) Ph.D. Microbial Ecology, University of Vienna (2011) Activity-based cell-sorting and enrichment of newly synthesized proteins via amino acid tagging and click chemistry, 7/17/14 - 7/13/16, $120,000

5. **Rosa Leon Zayas** (Biddle Laboratory, University of Delaware) Ph.D. Marine Biology, University of California, San Diego - Scripps Institution of Oceanography (2014) Metagenomic and metatranscriptomic analysis of the Tonga Trench: a comparative study of microbial diversity and metabolic potential from surface waters to below seafloor, 10/1/14 - 9/30/16, $120,000

**Phase II:**

6. **Blair Paul** (Valentine Laboratory, University of California Santa Barbara) Ph.D. Marine Science, University of California Santa Barbara (2013) Using a targeted metagenomic approach to examine adaptive protein diversification by microorganisms and their viruses in subseafloor sediments, 4/1/16 - 3/31/17, $87,802

7. **Nagissa Mahmoudi** (Pearson Laboratory, Harvard University) Ph.D. Environmental Microbiology, McMaster University (2013) Investigating the bioavailability and degradation of sedimentary organic matter, 9/1/16 - 8/31/17, $109,385

8. **James Bradley** (LaRowe Laboratory, University of Southern California) Ph.D. Geographical Sciences, University of Bristol (2016) Develop a 1D biogeochemical-evolutionary model for deep sediments, 10/10/16 - 10/9/17, $105,188

9. **Jacqueline Goordial** (Orcutt Laboratory, Bigelow Laboratory for Ocean Sciences) Ph.D. Environmental Microbiology, McGill University (2015) Investigations into the diversity and function of active microbial subpopulations in Atlantis Massif oceanic crust, 12/1/16 - 11/30/17, $114,813

10. **Gustavo Ramirez** (D’Hondt Laboratory, University of Rhode Island) Ph.D. Marine Biology and Biological Oceanography, University of Southern California (2016) Discrimination of detrital genes from marine sediments, 12/31/16 - 12/30/17, $110,865

**V. Education and Outreach Grants**

1. **Sunshine Menezes** (University of Rhode Island) Building leadership in science communication: A professional development workshop for C-DEBI grantees, 4/1/16 - 3/31/17, $37,863

2. **Christopher Petrone** (University of Delaware SeaGrant) Project VIDEO: Virtual, Interactive Dark Energy Outreach, 4/1/16 - 3/31/17, $50,000

**VI. Research and Travel Exchange Grants**

1. **Lily Momper** (Jan Amend Laboratory, University of Southern California) DCO Summer School, 7/23/16 - 7/28/16, $1204.55 matched by the Deep Carbon Observatory

2. **Laura Zinke** (Jan Amend Laboratory, University of Southern California) DCO Summer School, 7/23/16 - 7/28/16, $1106.77 matched by the Deep Carbon Observatory