

Roberta Hansman
Curriculum Vitae

Education

B.S., Biochemistry and Marine Science, North Carolina State University, 1998-2002, *Summa Cum Laude*.

Ph.D., Oceanography, University of California, San Diego - Scripps Institution of Oceanography (SIO), 2002-*expected late 2007*

Research Experience

- Summer 2000 - NSF-REU with Jack DiTullio at Grice Marine Laboratory (Charleston, SC). Effects of light and nutrient limitation of phytoplankton pigment composition.
- October 2000-May 2002 - Biological Research Assistant with J. Carl Barrett at the National Cancer Institute (Research Triangle Park, NC). Possible role of DNA methylation in the deviation of leiomyoma uterine tumor cells from normal smooth muscle myometrial cells.
- September 2002-present - Doctoral Research with Lihini Aluwihare at SIO (La Jolla, CA). Metabolic capabilities of prokaryotes in the deep ocean.

Presentations

- February 2006 – ASLO/AGU Ocean Sciences Meeting, Honolulu, HI. Talk. Biogeochemical analyses of prokaryotic metabolism in the sub-surface ocean.
- June 2005 – ASLO Summer Meeting, Santiago de Compostela, Spain. Poster (in absentia). Metabolic capabilities of prokaryotes in the deep ocean.
- May 2005 – Goldschmidt Conference, Moscow, ID. Talk. Metabolic capabilities of prokaryotes in the deep ocean.
- February 2004 – ASLO/TOS Ocean Research Conference, Honolulu, HI. Poster. Fate of DOC in the deep ocean: Insights from radiocarbon analysis of prokaryotic nucleic acids.

Awards

- Summer 2006 – Awarded Student Employee Graduate Research Fellowship (SEGRF) from Lawrence Livermore National Laboratory (LLNL)
- February 2006 – Awarded Outstanding Student Paper, 2006 ASLO/AGU Ocean Sciences Meeting
- January 2006 – Awarded fellowship from ARCS Foundation
- February 2004 – Awarded Best Student Poster in category, 2004 ASLO/TOS Ocean Research Conference
- Fall 2002 – Awarded 3-year National Defense Science and Engineering (NDSEG) Fellowship
- Spring 2000 – Inducted into Phi Beta Kappa and Phi Kappa Phi Honor Societies
- Fall 1998 – Awarded 4-year Park Scholarship at North Carolina State University

Publications

- Ingalls, A.E., Shah, S.R., Hansman, R.L., Aluwihare, L.I., Santos, G.M., Druffel, E.R.M., and Pearson, A. 2006. Quantifying archaeal community autotrophy in the mesopelagic ocean using natural radiocarbon. *PNAS* 103 (17): 6442-6447.
- Li, S., Hansman, R., Newbold, R., Davis, B., McLachlan, J.A., and Barrett, J.C. 2003. Neonatal diethylstilbestrol exposure induces persistent elevation of c-fos expression and hypomethylation in its exon-4 in mouse uterus. *Molecular Carcinogenesis* 38 (2): 78-84.

Research Cruises

- July 2006 – Eel River Basin, CA & Hydrate Ridge, OR on *R/V Atlantis*, Chief Scientist: Lisa Levin, SIO
- May/June 2006 – California Current Ecosystem (LTER Process Cruise) on *R/V Knorr*, Chief Scientist: Mike Landry, SIO
- June 2005 – Costa Rica Dome System on *R/V Atlantis*, Chief Scientists: Kevin Brown & Dave Hilton, SIO

Teaching Experience

- Fall 2005 – Teaching Assistant, BIBC103 Biochemical Techniques, UCSD
- Spring 2005 – Tutored 7th Grade Science classes at the Preuss School UCSD
- Summer 2004 – Lab mentor for high school student Alison Tebo