

Juliette N. Rooney-Varga, Ph.D.
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Lowell, MA 01854

Education

- 1997 Ph.D. University of New Hampshire, Durham, NH (Microbiology).
- 1994 M.S. Cornell University, Ithaca, NY (Natural Resources).
- 1991 B.A. Colby College, Waterville, ME. (Biology).

Professional Experience

- 2010- Director, UMass Lowell Climate Change Initiative
- 2007- Graduate Admissions Coordinator, Biological Sciences, UMass Lowell
- 2005- Graduate Coordinator, UMass School for Marine Sciences
- 2004- Associate Professor, Biological Sciences, UMass Lowell.
- 2001- Director, Center for Complex Environmental Systems, UMass Lowell.
- 2001- Faculty, UMass School for Marine Sciences
- 1998-2004 Assistant Professor, Biological Sciences, UMass Lowell.
- 1997-1998 Post-Doctoral Associate, Microbiology, UMass Amherst.
- 1996 Teaching Assistant, Microbiology, University of New Hampshire.
- 1993-1997 Graduate Research Assistant, Microbiology, University of New Hampshire.
- 1991-1993 Graduate Research Assistant, Natural Resources, Cornell University.
- 1991 Teaching Assistant, Natural Resources, Cornell University.
- 1990-1991 Claire Boothe Luce Research Assistant, Colby College.
- 1990 Summer Student Fellow, Woods Hole Oceanographic Institute.

Awards and Honors

- 2005 Northeast Regional Young Investigator Award, Sigma Xi
- 2003 Outstanding Teaching Award, UMass Lowell
- 2001 Featured Speaker, American Geophysical Union
- 2000 Course Website Excellence Award, UMass Lowell
- 1995 National Science Foundation Doctoral Dissertation Enhancement Grant
- 1992 Phi Kappa Phi Honor Society, Cornell University
- 1991 Samuel Coit Biology Prize, Colby College
- 1990 Charles A. Dana Award for Academic Excellence, Colby College
- 1990 Phi Beta Kappa Honor Society, Colby College

Publications related to proposed research:

- 2011 Li, W. K. W., M.E. Sieracki, **J. N. Rooney-Varga**, J. L. Martin, W. H. Wilson, D. J. Gifford, C. H. Pilskaln, L. S. Incze. Planktonic microbes in the Gulf of Maine area. *Submitted.*
- 2010 Goyal, D., J. X. Zhang, **J. N. Rooney-Varga**. Impacts of single-walled carbon nanotubes on microbial community structure in activated sludge. *Let. Appl. Microbiol.* **51**(4): 428-435.
- 2008 Hines, M. E., K. N. Duddleston, **J. N. Rooney-Varga**, D. Fields, J. P. Chanton. Uncoupling of acetate degradation from methane formation in Alaskan wetlands: Connections to vegetation distribution. *Global Biogeochem. Cycles*, **22**: GB2017.
- 2007 **Rooney-Varga, J. N.**, M. W. Giewat, K. N. Duddleston, J. P. Chanton, and M. E. Hines. Links between archaeal community structure, vegetation type, and methanogenic pathway in Alaskan peatlands. *FEMS Microbiol Ecol.* **60**: 240-251.
- 2007 Hasegawa, Y., J. L. Martin, M. W. Giewat, and **J. N. Rooney-Varga**. Microbial community diversity in the phycosphere of natural populations of the toxic alga,

- Alexandrium fundyense*. *Environ. Microbiol.* 9:3108-3121.
- 2006 **Zhang, X., K. Brussee, C. Coutinho, and J. Rooney-Varga.** Chemical Stress Induced by Copper: Examination of a Biofilm System. *Wat. Sci. and Tech.* 54:191-199.
- 2005 **Rooney-Varga, J. N., M. W. Giewat, M. C. Savin, M. LeGresley, and J. L. Martin.** Links between bacterial and phytoplankton community dynamics in a temperate coastal ecosystem. *Microb. Ecol.* **49**: 163-175
- 2005 Jasti, S.B., M. E. Sieracki, N. J. Poulton, M. W. Giewat, and **J. N. Rooney-Varga.** Phylogenetic diversity and specificity of bacteria associated with *Alexandrium* spp. and other phytoplankton. *Appl. Environ. Microbiol.* **71**: 3483-3494.
- 2004 Savin, M. C., J. Martin, M. LeGresley, M. Giewat, and **J. N. Rooney-Varga.** Plankton diversity in the Bay of Fundy as measured by morphological and molecular methods. *Microb. Ecol.* **48**: 51-65.
- 1999 **Rooney-Varga, J. N., R. T. Anderson, J. L. Fraga, D. Ringelberg, and D. R. Lovley.** Microbial communities associated with anaerobic benzene degradation in a petroleum-contaminated aquifer. *Appl. Environ. Microbiol.* **65**: 3056-3063.

Synergistic Activities

- Established and leading the UMass Lowell Climate Change Initiative.
- Graduate Coordinator UMass School of Marine Sciences and Graduate Admissions Coordinator for Biological Sciences.
- Invited panelist for the Workshop on Planning Coordinated Research on Ecosystems, Climate, and Policy in the Northeast. Cooperative Institute for Climate and Ocean Research (NOAA) and the Northeast Fisheries Science Center of the National Marine Fisheries Service.
- Invited Member of the Advisory Council of the Working WISE (Women in Science and Engineering) Project (funded by the NSF).
- Reviewer for several journals and grant programs, including NIEHS, NSF, USDA, ECOHAB, *Appl. Environ. Microbiol.*, *Aquatic Microbial Ecology*, *Environ. Microbiol.*, *Hydrobiologia*, *J. Eukaryot. Microbiol.*, *J. Geophys. Res.*, *Biogeosciences*, *J. Plankton Res.*, *Harmful Algae*, *BMC Ecology*, and *Mar. Biotechnol.* and others.

Graduate Advisors Timothy J. Fahey, Cornell University; Mark E. Hines, Univ. of New Hampshire

Post-Doctoral Sponsor: Derek R. Lovley, UMass Amherst

Collaborators:

Donald M. Anderson	Woods Hole Oceanographic Institute
Richard Christen	University of Nice, France
Jennifer L. Martin	Department of Fisheries and Oceans, Canada
Cynthia Pilskaln	UMass Dartmouth
Xiaoqi Jackie Zhang	UMass Lowell