

BIOGRAPHICAL SKETCH

Joseph John Grzymiski

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Professional Preparation

Bowdoin College	Philosophy and Biology	B.A. 1994
University of Trondheim	Ecology	Fulbright 1995
Rutgers University	Oceanography	Ph.D. 2002
Rockefeller University	Biophysics	Postdoc 2002-2004
Desert Research Institute	Microbiology	Postdoc 2004-2007

Appointments

Senior Director, Applied Innovation Center		2015-Present
Associate Research Professor	Desert Research Institute	2013-Present
Assistant Research Professor	Desert Research Institute	2007-2013
Adjunct Professor	University of Nevada, Reno	2011-Present
Co-founder	Evozym Biologics, Inc.	2011-Present

Five Most Relevant Publications

- Brown, MV, Ostrowski M, Grzymiski JJ and Lauro FM. 2014. A trait based perspective on the biogeography of common and abundant marine bacterioplankton clades. *Mar Genomics*. <http://dx.doi.org/10.1016/j.margen.2014.03.002>
- Grzymiski JJ and Dussaq AM. 2012. The significance of nitrogen cost minimization in proteomes of marine microorganisms. *ISME J* 6 71-80
- Grzymiski JJ, Riesenfeld CS, Williams TJ, Dussaq AM, Ducklow H, Erickson M, Cavicchioli R and Murray AE. 2012. A metagenomic assessment of winter and summer bacterioplankton from Antarctica Peninsula coastal surface waters. *ISME J* doi:10.1038/ismej.2012.31.
- Grzymiski JJ, Murray AE, Campbell BJ, Kaplarevic M, Gao GR, Lee C, Daniel R, Ghadiri A, Feldman RA, and Cary SC. 2008. Metagenome analysis of an extreme microbial symbiosis reveals eurythermal adaptation and metabolic flexibility. *Proc Natl Acad Sci USA*. 105(45) 17516-17521.
- Grzymiski JJ Carter BJ, DeLong EF, Feldman RA, Ghadiri A, Murray AE. 2006. Comparative genomics of DNA fragments from six Antarctic marine planktonic bacteria. *Appl Env Microbiol*. 72(2) 1532-41.

Five Other Significant Publications

- Grzymiski JJ and Marsh AG 2014. Protein languages differ depending on microorganism lifestyle. *PLoS ONE* 9(5): e96910. doi:10.1371/journal.pone.0096910

Williams TJ, Long E, Evans F, DeMaere MZ, Lauro FM, Raftery MJ, Ducklow H, Grzymiski JJ, Murrery AE, and Cavicchioli R. 2012. A metaproteomic assessment of winter and summer bacterioplankton from Antarctica Peninsula coastal surface waters. *ISME J* doi:10.1038/ismej.2012.28.

Lauro FM, Senstius SJ, Cullen J, Neches R, Jensen RM, et al. and Grzymiski JJ (2014) The Common Oceanographer: Crowdsourcing the Collection of Oceanographic Data. *PLoS Biol* 12(9): e1001947. doi:10.1371/journal.pbio.1001947.

Ayala-del-Rio HL, Chain P, Ponder MA, Grzymiski JJ and 14 others. 2009. The genome sequence of *Psychrobacter arcticus* 273-4, a psychroactive Siberian permafrost bacterium reveals mechanisms for adaptation to low temperature growth and low water activity. *Appl Env Microbiol.* 76:2304-2312.

Murray A and Grzymiski JJ. 2007. Diversity and genomics of Antarctic marine microorganisms. *Phil Trans R Soc B.* 362(1488) 2259-2272.

Synergistic Activities

Member Editorial Board Nature Scientific Reports

Member of American Society of Limnology and Oceanography, American Society of Microbiology, International Society for Microbial Ecology

Referee of grant applications to National Science Foundation (NSF); National Aeronautics and Space Agency (NASA); National Institutes of Health (NIH).

Referee of articles for *J. Bacteriol.*; *Limnol. Oceanogr.*; *J. Phycol.*; *Photosyn. Res.*; *Plant Physiol.*; *EMBO*; *Environ. Microbiol.* *Appl. Environ. Microbiol.*

Public Science Speaker: Given more than 25 lectures to the public and public schools in Nevada over past two years.

Software developer: Two patents pending (co-developed with Professor Adam Marsh) on “Systems and methods for using gene sequences to identify functionally or structurally important proteins and nucleotides” , one iPad “app” (co-developed with Dr. Michael Sheehan): “Mission Antarctica”.