

## **Steven Quistad**

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### **Education**

San Diego State University, University of California San Diego (2010-present) Joint Doctoral Program  
Cell and Molecular Biology

University of California Santa Barbara (2006-2010) B.A. Biology, minor Global Peace and Security

GPA: 3.85/4.0, High Honors

### **Research Experience**

*Doctoral student* – San Diego State University, Department of Biology, Dr. Forest Rohwer (PI) (2010-Present)

Dr. Rob Edwards (Rotation): Bioinformatic comparisons of coral and human immunity proteins

Dr. Roland Wolkowicz (Rotation): Development of a targeted random peptide library against the furine peptide of HIV localized in the Endoplasmic Reticulum.

*Research Assistant* – University of California Santa Barbara, Marine Science Institute: anaerobic propane oxidation, Stable Isotope Probing of methanotrophic viral DNA, viral metagenomics. (2009-2010)

Advisers: Dr. David Valentine (PI) and Blair Paul (PhD Student).

*Research Assistant* – University of California Santa Barbara, Marine Science Institute: Impact of ocean acidification on *S. purpuratus* molecular physiology. (2008) Advisers: Dr. Michael J. O'Donnell (post doc) and Dr. Gretchen Hofmann (PI)

*Research Assistant* – University of California Santa Barbara, Neuroscience Research Institute: Involvement of Tau protein with Neurodegeneration and Alzheimer's. (2007)

Adviser: Dr. Stuart Feinstein (PI)

*Biological Science Aid* – United States Geological Survey: methanogenesis and mercury cycling in wetland environments. (2006-2007)

Adviser: Dr. Mark Marvin-DiPasquale (PI)

### **Field Expeditions**

Franz Josef Land, Arctic (2013, 4 weeks)

Southern Line Islands, central pacific (2013, 4 weeks)

Richard B. Gump South Pacific Research Station, French Polynesia (2011, 4 weeks) NOAA

RAMPS Cruise, Northern Marina Islands (2011, 4 weeks), Hi'ialakai

Study of Ecology and Evolution of Petroleum Seeps, Southern California (2009, 2 weeks), R/V Atlantis, Dive 4547 of the DSV Alvin

### **Publications**

Quistad SD and Rohwer F. (In prep) A highly complex immune system was present at the Precambrian explosion

Quistad S.D., Paul B.P, Bagby S., Valentine D.L. (In prep) Viral stable isotope probing of an aerobic methanotrophic community.

Quistad SD, Stotland A, Barott KL, Hilton B, Grasis J, Wolkowicz R, and Rohwer F. (Submitted) The evolution of TNF-induced apoptosis reveals 550 million years of functional conservation.

Quistad S. D., Valentine D. L. (2011) Anaerobic oxidation of propane in marine sediments. 75 2159-2169.

### **Honors and Awards**

Most Collaborative Poster, Graduate Student Symposium, (2012)

Presidents Award, Student Research Symposium (2012)

National Science Foundation Graduate Research Fellowship (2010-2013)

University of California Santa Barbara Award of Distinction (2010)

College of Creative Studies Executive Committee Award of Excellence (2010)

Summer Undergraduate Research Fellowship (2009)

Innovator of the Future Scholarship, Rambus Inc. (2006-2010)

### **Presentations**

Immunology 2013, Hawaii (2013)

Symbiosis Workshop, Yosemite (2013)

SDSU Student Research Symposium, poster (2013)

International Coral Reef Symposium, Australia (2012)

Lower Reef Invertebrate Symbiosis with Microorganisms, Israel, poster (2012)

California State University Research Competition, Long Beach, oral (2012)

SDSU Student Research Symposium, San Diego, oral (2012)

Graduate Student Symposium, San Diego, oral (2011, 2012, 2013)