

BIOGRAPHICAL SKETCH

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NAME: **Joseph Horsman**

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: **Graduate student**

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of San Diego	BA		Biochemistry

A. Personal Statement

B. Positions and Honors

The W Fund - Venture Associate (2013-2015)

Knudra- Talk Grand Prize, C. elegans Aging, Stress, Pathogenesis and Small RNA Meeting, 2014

Student President - Biochemistry Department (2013-2014)

Executive Board - Molecular Medicine Certificate Program (2011-2013)

Conference Organizer - Northwest *C. elegans* Conference 2013
Phi Beta Kappa

Team Captain - Intercollegiate Track & Field, University of San Diego (2008-2009)

C. Contribution to Science (Publications)

Creating defined gaseous environments to study the effects of hypoxia on *C. elegans*- Emily Fawcett*, Joseph Horsman*, Dana Miller – *J. Vis. Exp.* (65), e4088, doi:10.3791/4088 (2012)

Mitochondrial SQRD-1 Promotes Protein Homeostasis in Hydrogen Sulfide- Joseph Horsman and Dana Miller-- (*Submitted*)

D. Research Support (Grants/fellowships)

Current research:

My research aims to use *C. elegans* to help us better understand H₂S signaling. I leverage the great tools we have in *C. elegans* to find proteins which play key roles in the organismal response to H₂S. My work has focused on two genes, SQRD-1 and SKN-1. These genes are poised to mediate both H₂S signaling and H₂S toxicity. These genes have led us to look at the intersection of stress responses, aging and H₂S signaling.

Grants/fellowships:

Genetic Approaches to Aging Training Grant
HHMI/ UW Molecular Medicine Scholar Award
Cellular and Molecular Biology Training Grant