

## Amy M. Hammerquist

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### EDUCATION AND TRAINING

- PhD (in progress)     **University of Southern California, Los Angeles, California**  
Molecular Biology  
*Current Research:*  
Regulation, processing and activity of MAF1  
PI: Sean Curran, PhD
- B.S. 2014     **Linfield College, McMinnville, Oregon**  
Biology major, Chemistry minor  
*Undergraduate Research:*  
Bacterial abundance, diversity, and nitrogen cycling within marine sponges  
Research Advisor: Jeremy Weisz, PhD

### RESEARCH EXPERIENCE

#### **Leonard Davis School of Gerontology, University of Southern California**

At USC I ~~am a member~~ ~~have joined~~ ~~of~~ the lab of ~~Sean~~ ~~Dr.~~ Curran, in which we use multiple model systems to investigate the relationship between proteostasis and aging. I am using *Caenorhabditis elegans* and human cell lines to investigate the regulation, post-translational processing, and activity of MAF1, a negative regulator of RNA polymerase III.

#### **Biology Department, Linfield College**

As a research assistant ~~in~~ ~~Jeremy~~ ~~Dr.~~ Weisz's marine ecology lab, I sought to gain a better understanding of the microbially-mediated nitrogen cycling capacity of marine sponges. I utilized numerous molecular biology techniques to analyze bacterial abundance and diversity, in addition to quantifying various aspects about sponge distribution and feeding behavior.

### ACADEMIC AWARDS & FUNDING

- 2017-2018     National Institute on Aging T32 training grant in gerontology AG000037  
2015     USC Provost Fellowship  
2010-2014     Linfield College Dean's List  
2013     ASM Undergraduate Research Fellowship  
2012-2013     Linfield College Student Professional Travel Award  
2012     Linfield College Foote Fellowship

### PUBLICATIONS

- Pradhan A, **Hammerquist AM**, Khanna A, SP Curran (2017). The C-Box Region of MAF1 Regulates Transcriptional Activity and Protein Stability. *Journal of Molecular Biology*. 429(2): 192-207. PMID: PMC5480515

## SCIENTIFIC PRESENTATIONS

### *Posters:*

- Hammerquist, AM**, Gonzalez J, Curran SP (2018). MAFR-1 interacts with germline-enriched proteins to affect lipid homeostasis and sperm quality. Aging, Metabolism, Stress, Pathogenesis, and Small RNAs in *C. elegans*, Madison, WI.
- Pradhan A, **Hammerquist AM**, Khanna A, SP Curran (2017). The C-Box Region of MAF1 Regulates Transcriptional Activity and Protein Stability. 21<sup>st</sup> Annual *C. elegans* Conference, Los Angeles, CA.
- Hammerquist AM**, Creech MK, Denhart M, Weisz JB. (2014). Sponges as bioindicators of estuarine nitrogen pollution. General meeting of the American Society for Microbiology, Boston, MA.
- Denhart M, Creech MK, **Hammerquist AM**, Weisz JB (2013). Marine sponges as bioindicators of nitrogen pollution in Oregon estuaries. Murdock College Science Research Conference. Vancouver, WA.
- Cowgill SA, Creech MK, **Hammerquist AM**, Weisz JB (2013). Tidal variation in nitrogen cycling in Oregon Sponges. Annual Benthic Ecology Meeting. Savannah, GA.
- Creech MK, **Hammerquist AM**, Cowgill SA, Weisz JB (2012). Nitrogen cycling within temperate sponges in a tidally influenced Oregon estuary. Murdock College Science Research Conference. Walla Walla, WA.
- Hammerquist AM**, Cowgill SA, Creech MK, Weisz JB (2012). Marine sponges as bioindicators of nitrogen within estuaries on the Oregon Coast. Annual Benthic Ecology Meeting. Norfolk, VA.

### *Presentations:*

- Creech MK, **Hammerquist AM**, Cowgill SA, Weisz JB (2011). Impact of sponges and sponge-associated bacterial communities on nutrient fluxes in Oregon estuaries. Murdock College Science Research Conference. Seattle, WA.

## TEACHING EXPERIENCE

2016-Present	Undergraduate Research Student Mentor
2016	Molecular Biology Laboratory Teaching Assistant
2012-2014	Principles of Biology Laboratory Teaching Assistant
2013-2014	Principles of Biology Tutor
2011-2012	General Chemistry Laboratory Teaching Assistant
2008-2010	Private Math Tutor

## WORK EXPERIENCE

2014-2015	E-commerce Research Assistant, Pacific Online Solutions/Pacific Four
2010-2011	Administrative Assistant, Instrumentation Northwest

## REFERENCES

References are available upon request.