

# Undergraduate Researcher Activities 2011-2012 Academic Year & Summer of 2012

## Presentations (undergraduates are bold-faced)

**Kelsey Klemm, J. Tyler Gish, Emily Measom**, and Alvan C. Hengge. "Production of the Industrial Feedstock Chemical HMF From Algae." National Conference on Undergraduate Research, Ogden, UT, March 29 – 31, 2012.

**Drake Smith** and Joan Hevel. "Defining a Minimal PRMT5-like Activity in Yeast HSL7", National Conference on Undergraduate Research, Salt Lake City, UT, March 29-31, 2012.

**Drake Smith** and Joan Hevel. "Defining a Minimal PRMT5-like Activity in Yeast HSL7", USU Student Showcase, Logan, UT, April 3, 2012.

**Drake Smith** and Joan Hevel. "Investigating Pro-Ubiquitin as a Substrate for Arginine Methylation" Talk given at the American Heart Association RoundTable, Salt Lake City, UT, August 17, 2012.

**Drake Smith** and Joan Hevel. "Defining a Minimal PRMT5-like Activity in Yeast HSL7", USU Hansen Biochemistry Retreat, UT, September 24, 2011

**Brooke Siler** and Joan Hevel. "Understanding How rPRMT1 Interacts with its Substrates by Fusing the RKK Peptide to PRMT1" Talk given at the American Heart Association RoundTable, Salt Lake City, UT, August 17, 2012.

**Brooke Siler** and Joan Hevel. "Understanding How rPRMT1 Interacts with its Substrates by Fusing the RKK Peptide to PRMT1" Research on Capitol Hill, Salt Lake City, UT, **January 17**, 2012.

**Brooke Siler** and Joan Hevel. "Understanding How rPRMT1 Interacts with its Substrates by Fusing the RKK Peptide to PRMT1" National Conference on Undergraduate Research, Salt Lake City, UT, March 29-31, 2012.

## Publications (undergraduates are bold-faced)

Fosso, M. Y.; **Chan, K. Y.**; **Gregory, R.**; Chang, C.-W. T. "Library Synthesis and Antibacterial Investigation of Cationic Anthraquinone Analogs." ACS Comb. Sci. 2012, 14, 231–235.

**Chan, K. Y.**; Zhang, J.; Chang, C.-W. T. "Mode of Action Investigation for the Antibacterial Cationic Anthraquinone Analogs." Bioorg. Med. Chem. Lett. 2011, 21, 6353-6356.

## URCO/SURCO and COS Mini-Grant Awards

## **URCO/SURCO**

Eric Elton (Berreau lab)  
Tyler Gish (Hengge lab)  
Taylor Wade (Hevel lab)  
Drake Smith (Hevel lab)  
Taylor Rasmussen (Hevel lab)

## **COS Mini-Grant Awards**

### **Students participating in Chem 4800, Undergraduate Research Problems**

### **Nationally Competitive Awards and Honors**

#### *American Heart Association Summer Research Fellowship*

Drake Smith (Hevel)  
Brooke Siler (Hevel)

### **Awards and Honors**

#### *Thomas M. Farley Chemistry Awards*

ZACHARY ZABRISKI  
ALIREZA FATAEI BOLOURCHI  
TYLER TUELLER  
DANIELLE PHILLIPS  
ZACHARY CHRISTENSEN  
ALEXANDRIA CAMPBELL

#### *Irving Condie Frost Awards in Organic Chemistry*

TYLER MCKINNON  
JEREMIAH BEARSS

#### *Harris O. and Eleanor Y. Van Orden Award in Analytical Chemistry/ACS Analytical Chemistry Award*

CHRISTINA WILLIS

#### *Harris O. and Eleanor Y. Van Orden Award in Biochemistry*

BROOKE SILER

#### *Harris O. and Eleanor Y. Van Orden Award in Inorganic Chemistry*

ERIC ELTON

#### *Garth L. Lee Scholars*

DANIEL McDONALD  
MAKDA GEBRE  
CAMDEN HUNT

#### *R. Gaurth Hansen, Ph.D. Endowed Scholarship Award*

AURE J. STEWART

#### *George H. and Billie Bush Emert Scholarship Award*

HANS GUNTHER

*The American Institute of Chemists Foundation Undergraduate Award*

HEATHER TARBET

*Maeser-Bauer Outstanding Graduating Senior in Chemistry*

MARK E. NOBLE

*Maeser-Bauer Outstanding Graduating Senior in Biochemistry*

RUSSELL W. BUTLER

*Undergraduate Research Awards*

KELBY BOSSHARDT      FACULTY MENTOR: SEAN JOHNSON

AMY CRANDAL          FACULTY MENTOR: SEAN JOHNSON

MEGI REXHEPAJ        FACULTY MENTOR: SEAN JOHNSON

HEATHER TARBET        FACULTY MENTOR: JOANIE HEVEL