

## Sigma Xi Award Winners, Ohio State 2016-2017

### Ohio State Chapter of Sigma Xi Grants in Aid of Research

#### Graduate Student

| <b>Student</b>         | <b>Advisor</b>  | <b>Department</b>                | <b>Project</b>  |
|------------------------|-----------------|----------------------------------|---|
| <b>Kelly Crowe</b>     | Paul T. Martin  | Molec. Cell and Develop. Biology | <i>Validation of <math>\alpha</math>DG-N as a Biomarker in Duchenne Muscular Dystrophy Molecular, Cellular, and Developmental Biology</i> |
| <b>Eileen Faulds</b>   | Marry Beth Happ | Nursing                          | <i>Assessing Usability of a Mobile Application Simulation Game for Insulin Pump Education</i>   |
| <b>Marissa Stewart</b> | Clark Larsen    | Anthropology                     | <i>Skeletal and Dietary Implications of Social Inequality in Medieval Tuscany</i>   |
| <b>Rowan McLachlan</b> | Andrea Grottoli | Earth Science                    | <i>Natural Adaptation in Hawaiian Coral: Assessing Variation in Storage Fat Composition</i>   |

#### Graduate Student Honorable Mention

|                        |                    |                           |   |
|------------------------|--------------------|---------------------------|---|
| <b>Trevor Browning</b> | Derek Sawyer       | Earth Science             | <i>Residence Times of Sediment in the Coastal System of Eastern St. John</i>  |
| <b>Casey Saup</b>      | Michael Wilkins    | Earth Science             | <i>Pristine Shale Geobiology: Distribution and Diversity of Microbial Biomass in the Deep Subsurface</i>  |
| <b>Kerri Dobson</b>    | Andrea Grottoli    | Earth Science             | <i>The role of lipids in the response and recovery of the Hawaiian corals from bleaching under ocean acidification conditions</i>                     |
| <b>Alex Pierce</b>     | Christopher Simons | Food Science & Technology | <i>The Effect of Orthonasal and Retronasal Odorant Delivery on Multitasking Stress</i>  |
| <b>James Price</b>     | Andrea Grottoli    | Earth Science             | <i>Assessment of the microbiome and animal physiology in multiple coral species in response to a range of natural temperature and pH environments</i> |

#### Undergraduate Student

|                          |                 |               |  |
|--------------------------|-----------------|---------------|--|
| <b>Robert J Burkhart</b> | Karen Goodell   | Biology       | <i>Testing the utility of stable isotope analysis in analyzing bee foraging across habitats</i>    |
| <b>Alec Moore</b>        | Andrea Grottoli | Earth Science | <i>Variability in Hawaiian Coral across a Natural Range of Temperature, pH, and Flow Gradients</i> |

#### Undergraduate Student Honorable Mention

|                   |               |         |   |
|-------------------|---------------|---------|---|
| <b>Julia Love</b> | Timothy Cripe | Biology | <i>A Novel Oncolytic Herpes Simplex-1 Virus Displays Increased Cytotoxicity Potentially Due to Increased Viral Spread Utilizing Cell Adhesion Contact</i> |
|-------------------|---------------|---------|---|

## National Sigma Xi Graduate Student Grant in Aid of Research

|                              |                            |                                |   |
|------------------------------|----------------------------|--------------------------------|---|
| <b>Pallavi Oruganti</b>      | Rebecca Garabed            | Veterinary Preventive Medicine | <i>The Human-Animal Bond and Diarrheal Disease Risk in Developing Settings</i>  |
| <b>Katherine D'Amico</b>     | Pierluigi (Enrico) Bonello | Translational Plant Sciences   | <i>Raman spectroscopy as a method for predicting resistance to sudden oak death in populations of coast live oak</i>            |
| <b>Kerri Dobson</b>          | Andréa Grottoli            | Earth Sciences                 | <i>The role of fats in the response and recovery of the Hawaiian corals from bleaching under ocean acidification conditions</i> |
| <b>Mohammad Amine Amooie</b> | Joachim Moortgat           | Earth Sciences                 | <i>Dissolution Trapping of CO<sub>2</sub> in Geological Carbon Sequestration</i>  |

## Sigma Xi/Ohio State University Student Innovator of the Year

|                        |                 |                                      |  |
|------------------------|-----------------|--------------------------------------|--|
| <b>Jacob Mendlovic</b> | Shaurya Prakash | Mechanical and Aerospace Engineering | <i>A Microscale Platinum Wire Probe That Uses Intrinsic Electrochemical Properties to Create Images of Subsurface Biomass Structures</i> |
|------------------------|-----------------|--------------------------------------|--|