



**Partners in Science Program Awards**  
M. J. Murdock Charitable Trust, Vancouver, WA  
**March 2019**

Idaho

- Dr. Michael Callahan - Boise State University, Boise, ID  
*Investigating Reaction Pathways Leading to Peptide Nucleic Acid Monomers under Plausible Prebiotic Conditions*  
Alison Fielding, Centennial High School, Boise ID
- Dr. Jennifer Chase - Northwest Nazarene University, Nampa, ID  
*Modeling the Effect of Estrogen on Uterine Cell Carbohydrate Metabolism*  
Tracey Cook, Skyview High School, Nampa, Idaho
- Dr. Gautam Kumar - University of Idaho, Moscow, ID  
*Deep Learning-Based Noninvasive Brain Decoder*  
Pat Blount, Moscow High School, Moscow, ID
- Dr. Jennifer Pierce - Boise State University, Boise, ID  
*Place-Based Research for a Changing Plant: Assessing Soil and Canopy Carbon Storage*  
Erin Stutzman, Timberline High School, Boise, Idaho
- Dr. Jennifer Pierce - Boise State University, Boise, ID  
*Using a Legacy of Wildfire, Logging, and Mining to Examine the Effect of Landuse on Soil Development in the Mountains of Central Idaho*  
Natalie Kulick, Idaho City Schools, Idaho City, ID
- Dr. Heidi Ware Carlisle - Boise State University, Boise, ID  
*Insect Biodiversity Census: Gathering Pre-Restoration Baseline data for a Riparian Area at the Urban-Wildland Interface*  
John Schisel, Borah High School, Boise, Idaho

Montana

- Dr. Jack Brookshire - Montana State University Bozeman, Bozeman, MT  
*Understanding Drivers of Recent Afforestation in the Northern Great Plains' Mixed-Grass Prairie*  
Victoria Dille, Bozeman Field School, Bozeman, MT
- Dr. Stephan Warnat - Montana State University Bozeman, Bozeman, MT  
*Sensor Characterization for In Situ Temperature Measurements in Ice*  
David Hembroff, Stillwater Christian School, Kalispell MT
- Dr. Andrew Whiteley - University of Montana, Missoula, MT  
*Where Ecology, Evolution, and Conservation Meet: An Experimental Test of Genetic Rescue in a Headwater Trout*  
Julia Crocker, Frenchtown High School, Frenchtown, MT

## Oregon

Dr. Joseph Ryan - Hermiston School District 8R, Hermiston, OR  
*Chemistry in Confined Spaces*  
Anna Reuter, Hermiston High School, Hermiston, OR

## Washington

Dr. Tanya Cheeke - Washington State University Foundation, Pullman, WA  
*Evaluating the Role of Soil Microbes in Ecological Restorations*  
Allison Winward, Kamiakin High School, Kennewick, WA

Dr. Samuel Fox - Saint Martin's University, Lacey, WA  
*Genetic and Physiological Characterization of Enhanced Stress Tolerance in Grafted Tomatoes*  
Tracy Russell, Pope John Paul II High School, Lacey, WA

Dr. Krisztian Magori - Eastern Washington University, Cheney, WA  
*Investigating the Effect of Elevation, Slope, and Aspect on Tick Density and Disease Transmission in the Inland Northwest*  
Drake Haren, Three Springs High School, Cheney, WA

Dr. Steven Neshyba - University of Puget Sound, Tacoma, WA  
*Investigating the Surface Morphology of Hexagonal Ice Crystals Using Scanning Electron Microscopy*  
Natalie Reszka, Lincoln High School, Tacoma, WA

Dr. Gretchen Rollwagen-Bollens - Washington State University Foundation, Pullman, WA  
*Impacts of Nutrients on Algal Blooms in the Columbia River Estuary*  
Mariah McClesky, Jason Lee Middle School, Vancouver, WA

Dr. Cheryl Schultz - Washington State University, Pullman, WA  
*Do Climate-Mediated Shifts in Phenology Affect Population Viability of Northwest Butterflies?*  
Lisa Cavola, Skyview High School, Vancouver, WA