

Partners in Science Program Awards
M. J. Murdock Charitable Trust, Vancouver, WA
February 2017

Idaho

Dr. Duke M. Bulanon, Northwest Nazarene University, Nampa -- 208-467-8047
Estimation of Fruit Crop Yield Using Unmanned Aerial Systems and Digital Image Processing
L. Paul Verhage -- Treasure Valley Math and Science Center, Boise -- 208-854-6800

Dr. Jennifer R. Chase, Northwest Nazarene University, Nampa -- 208-467-8892
Modeling Carbohydrate Flux in Cultured Uterine Cells
Brittany Sanchez -- Kuna High School, Kuna -- 208-955-0200

Dr. Marie-Anne de Graaff, Boise State University, Boise -- 208-246-1256
Impacts of Among and Within Plant Species Diversity on Belowground Biodiversity and Soil Carbon Cycling
Violet Martin -- Capital High School, Boise -- 208-854-4490

Dr. Jennifer S. Forbey, Boise State University, Boise -- 208-426-4426
Wildlife-Directed Bioprospecting of Chemical Diversity for Pest Control
Jenna Raino -- Garden Valley High School, Garden Valley -- 208-462-3756

Dr. Dmitri A. Tenne, Boise State University, Boise -- 208-426-1633
Ultraviolet Raman Spectroscopy of Multifunctional Oxide Nanostructures
Jonathan Moreno-Ramirez -- Riverstone International School, Boise -- 208-424-5000

Heidi Ware, Intermountain Bird Observatory at Boise State University, Boise -- 208-426-2223
Hummingbirds and Climate Change: What Can Pollen Tell Us?
Kate Dirksen -- Capital High School, Boise -- 208-854-4490

Montana

Dr. Joel Graff, Montana Tech of the University of Montana, Butte -- 406-496-4452
Exploring the Roles of Understudied Members of an Antiviral Protein Family
Katie Capp -- Belgrade High School, Belgrade -- 406-388-6862

Dr. Larry N. Smith, Montana Tech of the University of Montana, Butte -- 406-496-4859
Glacial Lakes Missoula and Great Falls, Histories of Fillings and Drainings
Krista Thomas -- Fort Benton High School, Fort Benton -- 406-622-3213

Oregon

Dr. Alice Barkan, University of Oregon, Eugene -- 541-346-5145

Exploring Mechanisms by Which Light Regulates the Expression of Chloroplast Genes

Sonja Ljungdahl -- Springfield High School, Springfield -- 541-744-4700

Dr. Catherine de Rivera, Portland State University, Portland -- 503-725-9798

Tracking Urban Animals to Determine Animal Paths and Barriers to Their Movement

Jeffrey Buckingham -- Beaverton High School, Beaverton -- 503-356-2830

Dr. Angela Hoffman, University of Portland, Portland -- 503-943-7173

Extraction, Purification, and Analysis of Antibiotic Compounds from Soil Bacteria Obtained from an Archeological Site

Amy Sutton -- Benson Polytechnic High School, Portland -- 503-916-5100

Dr. Martin Lafrenz, Portland State University, Portland -- 503-725-3163

Importance of Plant-Mycorrhizae Mutualism in Salt Marshes

Aleta Boddy -- Valley Catholic High School, Beaverton -- 503-644-3745

Dr. Larry S. Sherman, Oregon National Primate Research Center at OHSU, Beaverton -- 503-690-5217

Screening Modified Flavonoids for the Promotion of Remyelination

Paul Donelson -- Valor Christian School International, Beaverton -- 503-642-1593

Dr. Anne W. Thompson, Portland State University, Portland -- 503-725-8052

Influence of Physical Dynamics on the Ecology of Phytoplankton in the Open Ocean

Heather Blair -- David Douglas High School, Portland -- 503-261-8300

Dr. Henryk Urbanski, Oregon National Primate Research Center at OHSU, Beaverton -- 503-690-5306

Age-Associated Neuroendocrine Changes in the Hypothalamus

Rachel Stagner -- Madison High School, Portland -- 503-916-5229

Dr. Tristan Ursell, University of Oregon, Eugene -- 541-346-5231

Collective Behavior and Dynamics and Ant Colonies

Julia Harvey -- South Eugene High School, Eugene -- 541-790-8000



Washington

Dr. Betsy Bancroft, Gonzaga University, Spokane -- 509-313-5607

Effects of Climate Change, Invasive Species, and Nutrient Input on Aquatic Community Composition

Kendra Moser -- Lewis and Clark High School, Spokane -- 509-354-7000

Dr. Stephen M. Bollens, Washington State University - Vancouver, Vancouver -- 360-546-9116

Impacts of Nutrients on Harmful Algal Blooms in the Columbia River Basin

Ali Coker -- Camas High School, Camas -- 360-833-5750

Dr. W. James Cooper, Washington State University Tri-Cities, Richland -- 509-372-7175

Evolution and Development of Skull Biomechanics

Orissa Burghard -- Delta High School, Pasco -- 509-416-7860

Dr. Arun Devaraj, Pacific Northwest National Laboratory, Richland -- 509-371-6412

Understanding How the Nanostructure of Natural and Engineered Materials Influence Their Behavior

Tomas McGriff -- Pasco Senior High School, Pasco -- 509-547-5581

Patrick Pringle, Centralia College, Centralia -- 360-736-9391

*Investigation of the Subfossil Forests in the Puget Lowland and Southeast Olympic Mountain—
Can Tree Rings Tell Us More About the Tacoma and Seattle Faults?*

Emily Lindstrum Carson -- Centralia High School, Centralia -- 360-330-7650

