



a program of the
MJ Murdock Charitable Trust

Partners in Science Program Supplemental Awards
M. J. Murdock Charitable Trust, Vancouver, WA
February 2016

Alaska

Debbie Brewer -- Lumen Christi High School, Anchorage, AK
Effects of Phytochemicals on Yeast Survival Rate Following UV Exposure

Idaho

Marria Coriell -- Glens Ferry High School, Glens Ferry, ID
Isolation and Identification of Unknown Soil Bacterium and the Effect of pH on Bacterial Growth

John Doherty -- Capital High School, Boise, ID
Using a Polymerase Chain Reaction Informatics Kit and Gel Electrophoresis to Isolate an Alu Repeat

Jeremy Thompson -- Borah High School, Boise, ID
Monitoring Western Screech Owl Behaviors in Boise, Idaho

Montana

Craig Beals -- Billings Senior High School, Billings, MT
Spatial Distribution and Monitoring of Radon Gas and its Relationship to Geologic Features and Weather Patterns

Oregon

Angelica Huston -- McMinnville High School, McMinnville, OR
Assessing the Impact of Human Activity on Topsoil

Karl David Holz -- Southridge High School, Beaverton, OR
Implementing Design Technology Curriculum to Provide Meaningful Engineering Curriculum

Gina Portillo -- Valley Catholic Middle High School, Beaverton, OR
Investigating Pharmaceuticals in Local Water Supply

Washington

Jacqui Hall -- Capital High School, Olympia, WA
Inquiry Investigations in Alternative Energy: Nuclear, Solar, and Wind

Aaron Sonnichsen -- Prosser High School, Prosser, WA
Effect of the Environment on Genetic Expression and Behavior in "C. elegans"

Dawn Tessandore -- Highline High School, Burien, WA
Identification of Targets for Vaccines

Crystal Wulff -- Mountain View High School, Vancouver, WA
Zebrafish in the Environmental Science and Biology Classrooms



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Raphia B. Maglinao -- Kotlik School, Kotlik, AK

Kotlik River Water Monitoring in Fall and in Spring: Comparative Study

Idaho

Andrew Bosworth -- Ririe High School, Ririe, ID

Studies in Carbon Cycle Dynamics and Climate Change

Lindsey Lockwood -- Sage International School, Boise, ID

Enhanced Research on Songbird Populations in Urban Boise

Robert Miron -- Century High School, Pocatello, ID

Investigations in Effects of Nutrient Stoichiometry on Plant Nutrient Use Efficiency

Richard K. Neves -- Clark County High School, Dubois, ID

Impact of Invasive Species on Historic Fire Regimes of Eastern Idaho Rangeland

Tawny Olsen -- Victory Charter High School, Nampa, ID

Effect of Temperature and pH on the Respiration Rate of "Escherichia coli"

Oregon

David Burmester -- Grant High School, Portland, OR

Introduction of Green Fluorescent Proteins by Transformation of Bacterial Vectors

Brandon Galvez -- La Grande High School, La Grande, OR

Measuring and Monitoring the Ecological Health of Streams in the Grande Ronde Basin

Darrelle M. King -- Central Linn High School, Halsey, OR

Introduction of Molecular Tools Through Studies of Salmon Pathogens



Angela Little -- Westside Christian High School, Tigard, OR
Studies of Hyaluronic Acid and its Inhibitors in Tissue

Washington

Tamara Caraballo -- Glacier Peak High School, Snohomish, WA
Molecular Studies of Algae as a Source of Food and Fuel

Amanda Crisostomo -- Lincoln High School, Tacoma, WA
Molecular Tools for Inquiry-Based Exploration

Jennifer L. Duncan-Taylor -- Port Angeles High School, Port Angeles, WA
Nitrogen Studies with the "Thalassiosira pseudonana"

Karl Englert -- Nathan Hale High School, Seattle, WA
Genetics Studies with Zebrafish

Larry Hiday -- Columbia Adventist Academy, Battle Ground, WA
Molecular Studies of Proteins in Various Ova

Deborah E. Alan-LaZerte -- Bishop Blanchet High School, Seattle, WA
Epigenetics and Control of DNA Expression

Teridee Newman -- La Center High School, La Center, WA
Investigations of Water Quality and Invertebrate Communities of the East Fork of the Lewis River

Tim Renz -- Foster High School, Tukwila, WA
Molecular Tools for Protein Analysis

Carole Tanner -- Henry M. Jackson High School, Mill Creek, WA
Genetic Studies in the Rapid Evolution of Sticklebacks





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February 2014

Idaho

Arn Allemand -- Meridian Medical Arts Charter High School, Meridian, ID
Biotechnology Studies of Local Waterways

Cynthia Currie -- Capital High School, Boise, ID
Comparative Studies of Microbes Found in Humans

Wade Messick -- Shelley High School, Shelley, ID
Silver Nanoparticle and Microparticle Production Investigations

Dallas Trople -- Meridian Medical Arts Charter High School, Meridian, ID
Biotechnology Investigations

Montana

Nathan Gregier -- C. M. Russell High School, Great Falls, MT
Molecular Biology Investigations

Oregon

Michael Glane -- West Linn High School, West Linn, OR
Surveying Natural Dyes in Dye-Sensitized Solar Cells

Bradford Hill -- Southridge High School, Beaverton, OR
Investigations in the Properties of CCD Cameras

Lee Jones -- Dallas High School, Dallas, OR
Organic Synthesis and Characterization Studies

Carol Pallett -- Banks High School, Banks, OR
Characterization of Vaccine Induced Protective Anti-CMV Antibodies

Kieffer Tarbell -- Portland Lutheran School, Portland, OR
Biotechnical Engineering Studies

Washington

Nancy Coulson -- Mount Vernon High School, Mount Vernon, WA
Detecting Genetically Modified Foods by PCR

Rick Perleberg -- Reardan High School, Reardan, WA
Comparative Studies of Sagebrush Planting Methods



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ALASKA

Kathleen J. Baker - Anchorage Christian Schools, Anchorage, AK
Studies of Adaptive Strategies of Genetically Transformed "E. coli"

MONTANA

Carmen Hauck - Big Sky High School, Missoula, MT
Student Investigations of PCR Products

OREGON

Brenda J. Gordon - Cleveland High School, Portland, OR
Comparative Histological Study of Reproductive Tissues

Randy Harper - Elkton High School, Elkton, OR
Immunohistochemistry and Polymerase Chain Reaction Investigations

Christopher Hedeem - Oregon City Senior High School, Oregon City, OR
Dendrochronology Studies of Environmental Change

Allison Quarles - Rex Putnam High School, Milwaukie, OR
Immunohistochemical Studies of Hormonal Regulation of the Reproductive Tract

Kari Sikel - Colton High School, Colton, OR
DNA Sequencing Studies of Fruit Fly Genetic Variants

Jonathan Williams - West Salem High School, Salem, OR
Biochemistry Studies of Molecular Structures and Polymer Chemistry

WASHINGTON

Jennifer Dean - Camas High School, Camas, WA
Studies of Food Web Dynamics and Nutrient Cycling on Watershed Water Quality

Benjamin Hart - Bainbridge High School, Bainbridge Island, WA
Student Investigations of Transformed "E. coli" Fluorescence Protein Production