

<b>Name/Program</b>	<b>Poster Title/Mentor/Department</b>	<b>Institution/Major</b>	<b>Poster</b>
<b>Janette Adams</b> Global Change Ecology	The Effects of Photo-Exposed Dissolved Organic Matter on Bacterial Growth in Lake Itasca and Deming Lake, MN James Cotner / Ecology, Evolution, & Behavior	Muhlenberg College Biology	1
<b>Ross Bernard</b> Independent Research	Construction of a Wanang plant community phylogeny for analyses of herbivore host specificity and food web structure George Weiblen / Plant Biology	Univ. of MN – Twin Cities Biology	10
<b>Diana Cai</b> Independent Research	Learning How the Nose Knows: Using Electrophysiology to Verify Computer-Predicted Binding Properties of Goldfish Olfactory Receptor 5.24 Peter Sorenson / Fisheries and Wildlife	Columbia University Neuroscience	11
<b>Bethany Caldwell</b> Global Change Ecology	A Survey of the Biodiversity and Activity of Iron-Reducing Bacteria in Wetlands Near Itasca State Park Daniel Bond / Bioetechology Institute	College of Wooster Biology	2
<b>Enixa Charriez-Morales</b> Global Change Ecology	Vertical Migration of Zooplankton in Lake Itasca, Minnesota Leif Hembre	Univ. of PR – Cayey Biology	3
<b>Jose Cotto-Ortiz</b> Heart, Lung, & Blood	Interaction of <i>Streptococcus gordonii</i> Adhesin HSA with Human Platelets Mark Herzberg / Diagnostic Biological Sciences	Univ. of PR – Cayey Natural Sciences	19
<b>Alejandra DeAngulo</b> Molecular Genetics & Proteomics	Bacterial Expression of the Adipokine Lipocalin 2 David Bernlohr / BMBB	Univ. of TX –Austin Biological Sciences	35
<b>Derek Dziobek</b> Neuroscience	Generating Networks with Real Neurons and Virtual Synapses Theoden Netoff / Biomedical Engineering	Arizona State Univ. Physics	47
<b>Jermaine Ekobena</b> Independent Research	Phenotypic Differentiation of Various Invasive and Non-Invasive Specie Pairs Neil Anderson / Horticultural Science	Wheeling Jesuit University Biology	12
<b>James Fuller</b> Independent Research	Exploring Genetic Diversity in Soybean Varieties Using DNA Markers Nevin Young / Plant Pathology	Carleton College Biology	13
<b>David Gemperline</b> Molecular Genetics & Proteomics	In Situ Analysis of SIV-Specific CD8+ T-cells Responses in SIV-infected Macaques Vaccinated with an Attenuated SIV Virus Pamela Skinner / Veterinary Biosciences	Carthage College Biology	36
<b>Sarah Graves</b>	The Effect of UV Radiation on Carbon and Nitrogen Loss in Soils From Two Arid Ecosystems Jennifer King / Soil, Water, & Climate	Univ. of MN - Twin Cities Environmental Science, Policy & Management	14
<b>Sakinah Haque</b> Independent Research	<i>Potamogeton crispus</i> (Curly Leaf Pondweed): Factors Controlling the Viability of Turions Ray Newman / Fisheries, Wildlife, & Conservation Biology	Coe College Chemistry	15
<b>Emily Hemann</b> Molecular Genetics & Proetomics	The Unknown Mechanism of AID and the Possible Involvement of Dimers Reuben Harris / BMBB	College of St. Benedict's Biology	37

<b>Name/Program</b>	<b>Poster Title/Mentor/Department</b>	<b>Institution/Major</b>	<b>Poster</b>
<b>Katrina Hill</b>	Landscape Drainage Influences on Dissolved Carbon Export Jennifer King / Soil, Water, & Climate	Univ. of MN - Twin Cities Environmental Science, Policy & Management	16
<b>Cameron Johnson</b> Molecular Genetics & Proteomics	Phylogenetic Relationships of the <i>Cecropia</i> Genus Based on Ribosomal DNA Sequences George Weiblen / Plant Biology	Univ. of MD – Baltimore County Biology	38
<b>Rose Kantor</b> Molecular Genetics & Proteomics	Characterization of Gene Regulation by the Transcription Factor ZEB1 Michel Sanders / BMBB	Carleton College Biology	39
<b>Aaron Krueger</b> Neuroscience	In Vitro SERCA-PLB Functional ATPase Assay for Screening Small Molecules Used in Heart Failure Therapy David Thomas / BMBB	Univ. of WI – Stevens Point Biology & Chemistry	20
<b>Bora Kuyomba</b> IRSP	The Effect of Hyaluronan Fragments on Motility of Prostate Cancer Cells James McCarthy / Laboratory Medicine & Pathology	Anoka Ramsey CC Biochemistry	17
<b>Wing Lam</b> Independent Research	Regulation of Macrophage Gene Expression by Fatty Acid Binding Proteins David Bernlohr / BMBB	Carleton College Biology	21
<b>Angel Lopez</b> Neuroscience	Effects of RBM17/Mutant ATXN1 Interaction on Alternative Splicing in Candidate Genes Harry Orr / Laboratory Medicine & Pathology	Univ. of TX – San Antonio Biological Sciences	48
<b>David Manning</b> Independent Research	Plant Diversity Effects on Plant Pathogen Suppression by Soilborne <i>Actinomyces</i> Linda Kinkel / Plant Pathology	St. Olaf College Biology	18
<b>Edmarie Martinez- Rodriguez</b> Global Change Ecology	Presence of Chytrid Fungus <i>Batrachochytrium dendrobatidis</i> in Amphibian Populations Near Itasca State Park Tony Gamble / Fisheries, Wildlife, & Conservation Biology	Univ. of PR – Cayey Biology	4
<b>Victor Melnichuk</b> Neuroscience	Effects of Anticipation on Motion Filtering by Medial Temporal Neurons Geoff Ghose / Neuroscience	Univ. of MN – Morris Chemistry & Biochemistry	49
<b>Alejandra Mendoza</b> Molecular Genetics & Proteomics	Molecular and Genetic Characterization of <i>Arabidopsis</i> Suppressors of shb1-d in Blue Light Induced Photomorphogenesis Min Ni / Plant Biology	Palomar College Biology	40
<b>Leslie Montanez- Pagan</b> Molecular Genetics & Proteomics	Does Down-Regulation of Insulin Receptor Affect Cell Cycle Progression in Breast Cancer Cells? Douglas Yee / Medicine	Univ. of PR – Cayey Biology	41
<b>Steve Morgan</b> Global Change Ecology	It's Alive!!! The Distribution and Composition of Antibiotic Resistant Bacteria on Tetracycline in Aquatic Environments Tim LaPara / Civil Engineering	Xavier Univ. (LA) Biology	5
<b>Lenesia Nelson</b> Heart, Lung, & Blood	Preliminary Studies of Putative Transcriptional Regulators in Biofilm Formation in <i>Enterococcus faecalis</i> Gary Dunny / Microbiology	Carleton College Biology	22
<b>Brittney Nobles</b> Molecular Genetics & Proteomics	Creation of a GATEWAY cloning vector and its application for functional analysis of type III effectors from plant bacteria Jane Glazebrook / Plant Biology	Norfolk State Univ. Chemistry	42

<b>Name/Program</b>	<b>Poster Title/Mentor/Department</b>	<b>Institution/Major</b>	<b>Poster</b>
<b>Emily Nuechterlein</b> Neuroscience	GM3 Ganglioside Accumulation in the Brain of the NOD/SCID/MPS-I Mouse Walter Low / Neurosurgery	Macalester College Biology	23
<b>Stephanie Omburo</b> Molecular Genetics & Proteomics	Analysis of the Expression of Genes Potentially Involved in the Synthesis of THC in the Glands, Leaves and Inflorescence of <i>Cannabis sativa</i> David Marks / Plant Biology	Penn State University Biological Sciences	43
<b>Adam Pellegrini</b> Global Change Ecology	Consistency of Behavioral Syndromes in Fish Peter Sorenson / Fisheries, Wildlife, & Conservation Biology	Colgate University (NY) Biology	6
<b>LeRoy Perez-Haddock</b> Molecular Genetics & Proteomics	Synthesis and Characterization of Nicotinic Acid Adenine Dinucleotide 2'-Phosphate (NAADP) Analogs Tim Walseth / Pharmacology	Univ. of PR – Cayey Biology	24
<b>Khavong Pha</b> Heart, Lung, & Blood	Characterization of Drug-Induced DNA Protein in Cross-links in Human Cultured Cells Colin Campbell / Pharmacology	California State University Biology	25
<b>Jerdan Rodgers</b> Global Change Ecology	Is Habitat Preference Uniform in Aquatic Coleoptera, Hemiptera, and Odonata? Brian Wisedon	University of New Orleans Biology	7
<b>Myraida Rodriguez-Arroyo</b> Neuroscience	Effect of Benzamil on Salt-Sensitive Hypertension: A Study of Angiotensin II Actions in the Central Nervous System John Osborn / Integrative Biology & Physiology	Univ. of PR – Cayey Natural Sciences	26
<b>Nora Sadek</b> Heart, Lung, & Blood	Insulin Stimulates Lung Fluid Clearance and Alveolar Cell Sodium Pump David Ingbar / Medicine, PACC	St. Mary's University (MN) Biology	27
<b>Sunita Saith</b> Neuroscience	Hormonal Control of the Circadian Rhythms of the Adrenal Gland: A Pilot Study William Engeland / Neuroscience	Duke University Biology	28
<b>Daniel Salahuddin</b> Neuroscience	Sex Differences in Rapid Actions of Steroid Hormones in Hippocampus and Striatum Paul Mermelstein / Neuroscience	Saint Leo University Biology	29
<b>Lindsey Smith</b> Global Change Ecology	A Digestion Problem: How Invasive Earthworms Affect Plant Diversity and Composition in a Northern Hardwood Forest Ecosystem Sarah Hobbie / Ecology, Evolution, & Behavior	Hiram College Biology	8
<b>Wilfredo Soto-Fuentes</b> Heart, Lung, & Blood	Morphine Stimulates Lymphangiogenesis and Metastasis Kalpna Gupta / Medicine	Univ. of PR – Cayey Biology	30
<b>Daniel Stovall</b> Molecular Genetics & Proteomics	Cloning and Analyzing Expression Patterns of <i>frmB</i> Throughout Development in <i>Dictyostelium discoideum</i> Margaret Titus / Genetics, Cell Biology, & Development	Campbell University Biological Sciences	44
<b>Rebecca Swartz</b> Molecular Genetics & Proteomics	Characterization of the N-terminal Deletion Mutant of the F-box Protein Dia2 Deanna Koepp / Genetics, Cell Biology, & Development	Middlebury College Molecular Biology	45
<b>Heidi Telste</b> Global Change Ecology	Zooplankton Distribution at Different Depths in Lake Itasca and Deming Lake Kyle Zimmer	Univ. of St. Thomas Biology	9

<b>Name/Program</b>	<b>Poster Title/Mentor/Department</b>	<b>Institution/Major</b>	<b>Poster</b>
<b>Jack Timmons</b> Heart, Lung, & Blood	Fecal Contamination Source Tracking in Lake Superior Using Geese-Specific DNA Markers Michael Sadowsky / Soil, Water, & Climate	Carleton College Biology	31
<b>Joshua Weinberger</b> Neuroscience	The Effects of Omega-3 Fatty Acids on Arrhythmias and Infarctions of the Swine Heart Paul Iaizzo / Anesthesiology	Univ. of CA – San Diego Biology	32
<b>Rahel Woldeyes</b> Heart, Lung, & Blood	Construction of Short Hairpin RNAs Targeting Human Nuclear and Mitochondrial Ligase III Genes Colin Campbell / Pharmacology	Univ. of MN –Twin Cities Biology	33
<b>Casey Yang</b> Heart, Lung, & Blood	Hemin, All-trans Retinoic Acid, and Arsenic Trioxide Differentiate NB4 Human Leukemic Cell and has a Potential Role in Heme Oxygenase-1 Greg Vercellotti / Medicine	Carleton College Biology	34
<b>Nader Zamani</b> Molecular Genetics & Proteomics	The Role of Toll-Like Receptors 2 And 4 in the Modulation of Fca Receptor Mediated Phagocytosis by Chronic Morphine Sabita Roy / Surgery	Univ. of Houston Biology & Biochemistry	46