



# Poster Presentations

## BY POSTER BOARD NUMBER

BB= Basic Biosciences AB= Applied Biosciences EN= Engineering PE= Policy & Ethics  
PS= Physical Sciences ES= Earth Sciences SS= Social Sciences HU=Humanities

POSTER #	NAME	CATEGORY	TOPIC
1	Miguel Allende	PS	Single-Mode Tunable Short Cavity Quantum Cascade Lasers
2	Aaron Mendez	BB	Multisite Phosphorylation of a Core Component in the Neurospora crassa Circadian Clock
1	Budri Abubaker-Sharif	AB	IKK-epsilon Mediated Human Cell Transformation
2	Stephanie Morales	BB	The Effect of Pyocyanine Concentration on Calcium Levels in the Endoplasmic Reticulum in Human Airway Epithelial Cells
3	Osemelu Aburime	BB	Structure Function Of Critical Cell Cycle Control Transcription Factor, FOXO1
4	Eric Morgan	PS	Electrochemical Study of Heteropolymetallic Complexes
5	Lenora Acidera	BB	A Comparison of Human Bronchial Epithelial Cell Culture Phenotypes After Consecutive Culture Passages
6	James Muller	BB	The Molecular Basis for Differential Mating Speeds in Drosophila m.
7	Yamira Adorno	ES	Quartz Deformation Microstructures and Fabrics on Seismogenic Fault, Homestake Shear Zone in Colorado
8	Jeanette Muniz	AB	The Role of Transmembrane Collagens in Lung Cancer and Tumor Metastasis
9	Stephen Allsop	AB	Immune Analysis of a Vaccinated Sarcoma Patient
10	Cristina Nigro	BB	Comparing a Potential Novel Antipsychotic Therapy, Glutamate mGlu2/3 Receptor Agonist, to Marketed Antipsychotics Using Biochemical, Behavioral and Molecular Pharmacology
11	Aisha Arroyo	PS	Applications of Combinatorics
12	Bahawa Nimaga	BB	Signaling Stress Induced O-GlcNAc Modification of Nuclear and Cytoplasmic Proteins
13	Fatmata Bah	BB	Homeodomain Interacting Protein Kinase 1 (HIPK1) Interacts with O-GlcNAc Transferase and is O-GlcNAcylated
14	Oscar Nnoli	AB	Evaluation of Mechanisms Involved in the Therapeutic Effects of IFN-beta in Multiple Sclerosis
15	Angelo Bautista	BB	Protein Expression of His6-EF-TuA
16	Rafael Oania	AB	BDNF Polymorphism and its Effects on Amygdala & Hippocampus Volumes & Behavioral Phenotypes
17	Nita Bigman	AB	Screening the Little Bighorn River, MT for Environmental Isolates of Esherichia coli 0157:H7
18	John Old Elk	SS	Behavioral Markers of Neuroprotection: Apparatus Location Preference
19	Tamara Birdsbill	AB	Validation of an Omega-3 Fatty Acid Food Frequency Questionnaire in Native American Women
20	Inema Orukari	AB	Electrophysiologic Monitoring of Brain Herniation from Space-Occupying Legion
21	Matthew Bombyk	BB	Role of the ARGOS Gene Family in the Arabidopsis Ethylene Response
22	Sharon Paitoo	SS	Spatial Differentials and Health Gaps in Ghana
23	Ashon Bradford	SS	Race Disparities in Economic Vulnerability: Period and Cohort Patterns of Asset Poverty
24	Marybelle Pe	BB	The Subcellular Distribution of the NMDA Receptor Subunit NR2B in the Hypothalamus Following Hypertension on Young and Perimenopausal Mice
25	Justin Brown	AB	Antichagasic Activity of the Methanolic Extract from Anogeissus leiocarpus Roots
26	Enmanuel Perez	BB	Examining Proteins Involved in Neuronal Polarization
27	Bethany Bush	BB	Identifying New Regulators of Autophagy



28	James Poland	PS	A Microsporidial Protein is an Enzyme that Hypermethylates RNA Cap Structures
29	Maria Cantu	BB	Study of Apoptosis in Hypoxic p57Kip2 Mutant Embryonic Mouse Hearts
30	Vinaykumar Prajapati	PS	Analysis of Tetracyclines in Manure and Soil Using Solid Phase Extraction and High Performance Liquid Chromatography
31	Arnaldo Carreira	AB	Does the Expression of PD-1 on Septic Immune Cells Contribute to Altered Motility/ Migratory Ability or Dwell Time?
32	Brittany Richardson	AB	Clinical, Radiographic, and Pathologic Phenotype of Patients with Myositis Associated ILD
33	Joseph Chavarria-Smith	BB	Phytoestrogens are Responsible for Transcriptional Effects in Mice with Genetic Heart Disease via Pattern-defined Regulatory Islands
34	Shilo Rides The Bear	AB	Development of a Culturally Educational Booklet on Patient/Provider Communication on the Crow Reservation
35	Angel Chavez	PS	CP-Violation and the Origins of Our Universe
36	Rocio Rivera	AB	The NUT Monoclonal Antibody Epitope: A Tool to Characterize NUT Midline Carcinoma Oncogenesis
37	Min-Jeong Cho	BB	Investigation on Effects of Phosphorylation on Cyclin B1 Degradation
38	Cameron Robinson	SS	Modulation of Angiotensin Receptors: Neuroprotective Efficacy
39	Daisy Colón-López	BB	Characterization of a Mutant DNA Replication Initiator: Expression, Purification and Functional Analysis
40	Franklyn Rocha	AB	Mechanisms that Mediate A $\beta$ -Enhancement of Tau Toxicity in Drosophila
41	Frank Conyers	BB	The Role of ZBP-89 in Hematopoiesis
42	Karen Rodriguez	BB	Thrombopoietin Modulates Hematopoietic Reconstitution through Regeneration after Vascular Niche
43	Samantha Cote	BB	The Identification of Cargoes of Motor Protein KIF21A and the Functional Role During Neuronal Development
44	Kenia Rodriguez	BB	Do Deficits in Swim Maze Performance in Dopamine Transporter Knockout Mice Reflect Impairments in Memory?
45	Bryar Flansburg	BB	Effect of Zic 1 on Hox Gene Expression in Xenopus Embryos
46	Stephanie Rodriguez	BB	Defining the Relationship between Glial Progenitor Cells and Nodes of Ranvier in CNS White Matter
47	Marissa Fountain	SS	Exercise Reduction of the Acute Stress Response: Does Voluntary Exercise Buffer the Effect of Social Isolation?
48	Andre Rosario	AB	HPV16 Subversion of Epigenetic Programs through Association with PcG Protein Complexes
49	Jodi Four Colors	BB	Matrix Vesicle Release During Bone Cell Mineralization
50	Maria Russell	BB	Freeze-Thaw Survival of Bacteria Isolated From Glacier Environments
51	Elisabeth Garcia	SS	Effectiveness of Training Programs to Identify, Question, Persuade, and Refer Individuals at Risk for Suicide
52	Jennifer Salemme	BB	Regulation of PIASx Phosphorylation in Postsynaptic Differentiation
53	Cassie Gibbs	BB	Characterizing Virulence Factors and Antibiotic Resistance in Novel Staphylococcus aureus Strains
54	Ilona Savich	BB	Chronological Life-Span Analysis of Histone H2B Mutants
55	Patricia Green	AB	The Effects of Estrogen In Treated MCF7 Cells and Rat Hepatocytes
56	Hilary Schiffer	AB	Identification of the Bacterial Microbiota of the Adult Human Nares and Pharynx Using Culture-independent Methods
57	John Mark Gubatan	BB	Investigating the Role of the Osteoblastic Niche in Regulating Hematopoietic Stem Cell Mobilization
58	Tiffany Shand	AB	Roles for the DNA Damage Checkpoint Protein Hus 1 in Skin Cancer
59	Elizabeth Gutierrez	BB	Functional Expression of beta2 Nicotinic Acetylcholine Receptor Construct with alpha-Bungarotoxin Sensitive Neuronal Subunits in Xenopus oocytes
60	Katharin Shaw	BB	Investigating Cytokinesis Defects Caused by a Small Molecule and the Knockdown of a Novel Gene
61	Elizabeth Henderson	PS	Laser Induced Breakdown Spectroscopy
62	Elina Shrestha	BB	The Role of Kaposi's Sarcoma Associated Herpes Virus Genomic Terminal Repeats in Viral Episomal Maintenance
63	Alicia Henriquez	BB	Analysis of the Growth Properties of SID-1, dsRNA channel- Depleted Mouse Embryonic Fibroblast Cells



64	Maria-Carolina Simao	BB	Preparing for Reproduction: Estrogen and Progesterone Levels in Yellow Baboons ( <i>Papio cynocephalus</i> )
65	Jeanette Hoops	BB	Siderophore Production by Halophilic and Alkaliphilic Bacteria
66	Dariana Soto-Reyes	BB	Transgenerational Maintenance of Imprinted DNA Methylation
67	Emmaline Jackson	AB	Training Crow Women To Conduct Outreach Through Community Meetings
68	Maria Spire	AB	Community-associated MRSA: Understanding its Innate Immune Evasion Strategies
69	Jasmine Jackson	PS	Multi-dimensional Organizational Modeling
70	Ja'Pel Sumpster	PS	The Effect Of Coadsorption on Organic Acid Monolayer Formation
71	Dasheema Jarrett	AB	Support Exchange in HIV Positive Main Partner Relationships: Effects on HAART Use
72	Johnny Taylor	AB	Pathogenic Bacteria Associated with Organic Produce
73	Vanessa Jimenez	AB	Involvement of Reactive Oxygen Species in Signaling Pathways Regulating Cisplatin-induced Death of Zebrafish ( <i>Danio rerio</i> ) Sensory Hair Cells
74	Zenar Tekeste	AB	Prevention of Cigarette Smoke Induced Endothelial Cell Apoptosis
75	Marilyn Juarez	AB	Do Muscarinic Cholinergic Receptors in the Olfactory Bulb Mediate the Effect of Reward Value on Olfactory Acuity?
76	Taralee Thompson	AB	Unfolded Protein Response in Pulmonary Hypertension
77	Jenan Kharbush	BB	A Mutagenic Screen for Dominant-Negative Alleles of the <i>swi6</i> gene in <i>Schizosaccharomyces pombe</i>
78	Hoang-Lan Tran	BB	The Release of Intracellular ATP to the Extracellular Space via Mechanosensitive Channels
79	Candice King	AB	Analysis Of Blood And Lymphatic Vascular Development In Mutant <i>Vezf1</i> Embryos Using Immunostaining
80	Carlos Vera	AB	Effects of a Potent BMP-7 Mutant on HUVEC Cells
81	Laura Mainardi	BB	Effects of Long Duration Anesthesia on Neural Activity and Neurovascular Coupling in Rats
82	April Wayman	BB	Genetic Characterization of the Role of Vitamin K Epoxide Reductase in Mycobacterial Disulfide Bond Formation
83	Nilsa Mendez	BB	Regulation of Estrogen Related Receptor alpha (ESRRA) Localization and Signaling by the Kinesin KIF17
84	Renaldo Williams	AB	The Effects of Mutations in AQP5 on Epithelial Responses to Shear Stress and Cigarette Smoke
85	Katherine Meyer	BB	The Role of the Histone Demethylase SPR-5 in DNA Damage Biology
86	Tomi Wooden Legs	SS	Behavioral Markers of Neuroprotection: Locomotor Activity and Thigmotaxis
87	Charles Molokwu	BB	Micromanipulation of DNA fibers
88	Nasser Yaghi	BB	Functional Study of PHF8 PHD Finger in Histone Binding and Demethylation
89	Paloma Monroig	AB	Development of an (in vitro) Assay to Examine the Role of Cadherin-11 in Fibroblast-Like Synoviocytes Mediated Cartilage Erosion
90	Erin Yarborough	AB	Placental Gene Expression in Intrauterine Drug and Nicotine Exposure
91	Mabel Mora	BB	A Screen for Mutants Affecting Epithelial Cell Polarity in <i>Drosophila melanogaster</i>



# Student Poster Presentations

## BY NAME

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**Budri Abubaker-Sharif** 1 8:45-9:45 AM  
**Presentation Title** IKK-epsilon Mediated Human Cell Transformation  
**Research Mentor** William Hahn  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Johns Hopkins University  
**Co-Authors** William Hahn and Rhine Shen, Dana Farber Cancer Institute

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**Osemelu Aburime** 3 8:45-9:45 AM  
**Presentation Title** Structure/Function of Critical Cell Cycle Control Transcription Factor, FOXO1  
**Research Mentor** Marianne Grant  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Morehouse College  
**Co-Authors** Marianne Grant, Division of Molecular and Vascular Medicine, Beth Israel Deaconess Medical Center; Department of Medicine, Harvard Medical School

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**Lenora Acidera** 5 8:45-9:45 AM  
**Presentation Title** A Comparison of Human Bronchial Epithelial Cell Culture Phenotypes After Consecutive Culture Passages  
**Research Mentor** Rosanna Forteza  
**Research Institution** University of Miami  
**Home Institution** Chaminade University of Honolulu  
**Co-Authors** Rosanna Forteza, Miller School of Medicine at the University of Miami; Michael Gaines, University of Miami

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**Yamira Adorno** 7 8:45-9:45 AM  
**Presentation Title** Quartz Deformation Microstructures and Fabrics on Seismogenic Fault, Homestake Shear Zone in Colorado  
**Research Mentor** Colin Shaw  
**Research Institution** Montana State University -Bozeman  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Colin Shaw, Montana State University

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**Stephen Allsop** 9 8:45-9:45 AM  
**Presentation Title** Immune Analysis of a Vaccinated Sarcoma Patient  
**Research Mentor** Glenn Dranoff  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** North Carolina Central University  
**Co-Authors** Catia Fonseca, Brittany Winckler and Glenn Dranoff, Dana-Farber Cancer Institute and Harvard Medical School

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**Aisha Arroyo** 11 8:45-9:45 AM  
**Presentation Title** Applications of Combinatorics  
**Research Mentor** Taniecea Arceneaux  
**Research Institution** Princeton University  
**Home Institution** Georgia Institute of Technology  
**Co-Authors** Taniecea Arceneaux, Princeton University

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**Fatmata Bah** 13 8:45-9:45 AM  
**Presentation Title** Homeodomain Interacting Protein Kinase 1 (HIPK1) Interacts with O-GlcNAc Transferase and is O-GlcNAcylated  
**Research Mentor** Gerald Hart  
**Research Institution** Johns Hopkins University  
**Home Institution** Hunter College  
**Co-Authors** Ronald Copeland and Gerald Hart, Johns Hopkins University

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**Angelo Bautista** 15 8:45-9:45 AM  
**Presentation Title** Protein Expression of His6-EF-TuA  
**Research Mentor** Alan Saghatelian  
**Research Institution** Harvard University  
**Home Institution** UC San Diego  
**Co-Authors** Alan Saghatelian and Yui Vinayavekhin, Harvard University Arts and Sciences

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**Nita Bigman** 17 8:45-9:45 AM  
**Presentation Title** Screening the Little Bighorn River, MT for Environmental Isolates of *E. coli* O157:H7  
**Research Mentor** Susan Broadway  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Little Big Horn College  
**Co-Authors** Susan Broadway, Steve Hamner and Barry Pyle, Montana State University



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**Tamara Birdsbill**                      **19**                      **8:45-9:45 AM**  
**Presentation Title** Validation of an Omega-3 Fatty Acid Food Frequency Questionnaire in Native American Women  
**Research Mentor** Christina Campbell  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Montana State University -Bozeman  
**Co-Authors** Christina Campbell, Montana State University

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**Matthew Bombyk**                      **21**                      **8:45-9:45 AM**  
**Presentation Title** Role of the ARGOS Gene Family in the Arabidopsis Ethylene Response  
**Research Mentor** Eric Schaller  
**Research Institution** Dartmouth College  
**Home Institution** University of Minnesota-Twin Cities  
**Co-Authors** G. Eric Schaller, Dartmouth College

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**Ashon Bradford**                      **23**                      **8:45-9:45 AM**  
**Presentation Title** Race Disparities in Economic Vulnerability: Period and Cohort Patterns of Asset Poverty  
**Research Mentor** Thomas Hirschl  
**Research Institution** Cornell University  
**Home Institution** Grambling State University  
**Co-Authors** Thomas Hirschl, Cornell University

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**Justin Brown**                      **25**                      **8:45-9:45 AM**  
**Presentation Title** Antichagasic Activity of the Methanolic Extract from Anogeissus leiocarpus Roots  
**Research Mentor** Clarence Lee  
**Research Institution** Howard University  
**Home Institution** Winston-Salem State University  
**Co-Authors** Clarence Lee and Hilaire Kenguele, Howard University

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**Bethany Bush**                      **27**                      **8:45-9:45 AM**  
**Presentation Title** Identifying New Regulators of Autophagy  
**Research Mentor** Sheila Thomas  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Winthrop University  
**Co-Authors** Sheila Thomas and Janice Lee, Beth Israel Deaconess Medical Center/Harvard Medical School

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**Maria Cantu**                      **29**                      **8:45-9:45 AM**  
**Presentation Title** Study of Apoptosis in Hypoxic p57Kip2 Mutant Embryonic Mouse Hearts  
**Research Mentor** Lazaros Kochilas  
**Research Institution** Brown University  
**Home Institution** University of Texas Pan American  
**Co-Authors** Lazaros Kochilas, The Warren Alpert Medical School of Brown University; Lori Underhill, Rhode Island Hospital

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**Arnaldo Carreira**                      **31**                      **8:45-9:45 AM**  
**Presentation Title** Does the Expression of PD-1 on Septic Immune Cells Contribute to Altered Motility/Migratory Ability or Dwell Time?  
**Research Mentor** Alfred Ayala  
**Research Institution** Brown University  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Gwendolyn F. Elphick, Xin Huang and Chun-Shiang Chung, Rhode Island Hospital/Division of Surgical Research

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**Joseph Chavarria-Smith**                      **33**                      **8:45-9:45 AM**  
**Presentation Title** Phytoestrogens are Responsible for Transcriptional Effects in Mice with Genetic Heart Disease via Pattern-defined Regulatory Islands  
**Research Mentor** Leslie Leinwand  
**Research Institution** University of Colorado at Boulder  
**Home Institution** Western Kentucky University  
**Co-Authors** Stephen Langer, Elizabeth Luczak and Leslie Leinwand, University of Colorado at Boulder

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**Angel Chavez**                      **35**                      **8:45-9:45 AM**  
**Presentation Title** CP-Violation and the Origins of Our Universe  
**Research Mentor** William Ford  
**Research Institution** University of Colorado at Boulder  
**Home Institution** University of Colorado at Boulder  
**Co-Authors** William Ford and James Smith, University of Colorado at Boulder; Alessandro Gaz, Stanford University

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**Min-Jeong Cho**                      **37**                      **8:45-9:45 AM**  
**Presentation Title** Investigation on Effects of Phosphorylation on Cyclin B1 Degradation  
**Research Mentor** Randall King  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** University of Texas at Austin  
**Co-Authors** Randall W. King and Kathleen L. Pfaff, Harvard Medical School




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**Daisy Colón-López**      **39**      **8:45-9:45 AM**  
**Presentation Title** Characterization of a Mutant DNA Replication Initiator: Expression, Purification and Functional Analysis  
**Research Mentor** Roger McMacken  
**Research Institution** Johns Hopkins University  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Roger McMacken and Brian Learn, Johns Hopkins University

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**Frank Conyers**      **41**      **8:45-9:45 AM**  
**Presentation Title** The Role of ZBP-89 in Hematopoiesis  
**Research Mentor** Alan Cantor  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Morehouse College  
**Co-Authors** Andrew Woo and Alan Cantor, Harvard University

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**Samantha Cote**      **43**      **8:45-9:45 AM**  
**Presentation Title** The Identification of Cargoes of Motor Protein KIF21A and the Functional Role During Neuronal Development  
**Research Mentor** Elizabeth Engle  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Sacred Heart University  
**Co-Authors** Long Cheng, Michelle Delisle, Jigar Desai, Elizabeth Engle and Carlos Miranda, Harvard University

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**Bryar Flansburg**      **45**      **8:45-9:45 AM**  
**Presentation Title** Effect of Zic 1 on Hox Gene Expression in Xenopus Embryos  
**Research Mentor** Christa Merzdorf  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Fort Belknap College  
**Co-Authors** Sara Muscarelli, Jean Cornish and Christa Merzdorf, Montana State University - Bozeman

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**Marissa Fountain**      **47**      **8:45-9:45 AM**  
**Presentation Title** Exercise Reduction of the Acute Stress Response: Does Voluntary Exercise Buffer the Effect of Social Isolation?  
**Research Mentor** Heidi Day  
**Research Institution** University of Colorado at Boulder  
**Home Institution** Chaminade University of Honolulu  
**Co-Authors** Heidi Day, Serge Campeau and Tara Nyhuis, University of Colorado at Boulder

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**Jodi Four Colors**      **49**      **8:45-9:45 AM**  
**Presentation Title** Matrix Vesicle Release During Bone Cell Mineralization  
**Research Mentor** Shiela Nielson-Preiss  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Stone Child College  
**Co-Authors** Sheila Nielsen-Preiss, Montana State University

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**Elisabeth Garcia**      **51**      **8:45-9:45 AM**  
**Presentation Title** Effectiveness of Training Programs to Identify, Question, Persuade, and Refer Individuals at Risk for Suicide  
**Research Mentor** George Haynes  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Fort Peck Community College  
**Co-Authors** George Haynes, Montana State University-Bozeman

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**Cassie Gibbs**      **53**      **8:45-9:45 AM**  
**Presentation Title** Characterizing Virulence Factors and Antibiotic Resistance in Novel Staphylococcus aureus Strains  
**Research Mentor** Jovanka Voyich-Kane  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Fort Peck Community College  
**Co-Authors** Jovanka Voyich and Rainer Grant, Montana State University

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**Patricia Green**      **55**      **8:45-9:45 AM**  
**Presentation Title** The Effects of Estrogen In Treated MCF7 Cells and Rat Hepatocytes  
**Research Mentor** John Groopman  
**Research Institution** Johns Hopkins University  
**Home Institution** Cornell University  
**Co-Authors** John Groopman and Shelly Odwin, The Johns Hopkins University Bloomberg School of Public Health; Leslie Bransfield, The Johns Hopkins University Zanvyl Krieger School of Arts and Sciences

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**John Mark Gubatan**      **57**      **8:45-9:45 AM**  
**Presentation Title** Investigating the Role of the Osteoblastic Niche in Regulating Hematopoietic Stem Cell Mobilization  
**Research Mentor** Amy Wagers  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Michigan Technological University  
**Co-Authors** Amy J. Wagers and Shane R. Mayack, Harvard Medical School, Joslin Diabetes Center



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**Elizabeth Gutierrez**      **59**      **8:45-9:45 AM**  
**Presentation Title** Functional Expression of beta2 Nicotinic Acetylcholine Receptor Construct with alpha-Bungarotoxin Sensitive Neuronal Subunits in *Xenopus* oocytes  
**Research Mentor** Edward Hawrot  
**Research Institution** Brown University  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Geoffrey Chew and Edward Hawrot, Brown University

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**Elizabeth Henderson**      **61**      **8:45-9:45 AM**  
**Presentation Title** Laser Induced Breakdown Spectroscopy  
**Research Mentor** Yuri Markushin  
**Research Institution** Delaware State University  
**Home Institution** Amherst College  
**Co-Authors** Steve Rock, Delaware State University

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**Alicia Henriquez**      **63**      **8:45-9:45 AM**  
**Presentation Title** Analysis of the Growth Properties of SID-1, dsRNA channel- Depleted Mouse Embryonic Fibroblast Cells  
**Research Mentor** Jeiwook Chae  
**Research Institution** Harvard University  
**Home Institution** University of Central Florida  
**Co-Authors** Jeiwook Chae, Harvard University Arts and Sciences

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**Jeanette Hoops**      **65**      **8:45-9:45 AM**  
**Presentation Title** Siderophore Production by Halophilic and Alkaliphilic Bacteria  
**Research Mentor** Abigail Richards  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Montana State University -Bozeman  
**Co-Authors** Abigail M. Richards, Montana State University

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**Emmaline Jackson**      **67**      **8:45-9:45 AM**  
**Presentation Title** Training Crow Women To Conduct Outreach Through Community Meetings  
**Research Mentor** Suzanne Christopher  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Montana State University -Bozeman  
**Co-Authors** Suzanne Christopher and Vanessa Watts, Montana State University Bozeman

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**Jasmine Jackson**      **69**      **8:45-9:45 AM**  
**Presentation Title** Multi-dimensional Organizational Modeling  
**Research Mentor** Clarence Ellis  
**Research Institution** University of Colorado at Boulder  
**Home Institution** CSU East Bay  
**Co-Authors** Clarence Ellis, University of Colorado at Boulder

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**Dasheema Jarrett**      **71**      **8:45-9:45 AM**  
**Presentation Title** Support Exchange in HIV Positive Main Partner Relationships: Effects on HAART Use  
**Research Mentor** Amy Knowlton  
**Research Institution** Johns Hopkins University  
**Home Institution** Beloit College  
**Co-Authors** Amy R. Knowlton, Tami Ito and Katrina Machusick, Johns Hopkins University

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**Vanessa Jimenez**      **73**      **8:45-9:45 AM**  
**Presentation Title** Involvement of Reactive Oxygen Species in Signaling Pathways Regulating Cisplatin-induced Death of Zebrafish (*Danio rerio*) Sensory Hair Cells  
**Research Mentor** Jonathan Matsui  
**Research Institution** Harvard University  
**Home Institution** University of Iowa  
**Co-Authors** Jonathan Matsui, Harvard University Arts and Sciences

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**Marilyn Juarez**      **75**      **8:45-9:45 AM**  
**Presentation Title** Do Muscarinic Cholinergic Receptors in the Olfactory Bulb Mediate the Effect of Reward Value on Olfactory Acuity?  
**Research Mentor** Thomas Cleland  
**Research Institution** Cornell University  
**Home Institution** CSU Northridge  
**Co-Authors** Thomas Cleland, Shane Peace and Alan Leung, Cornell University

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**Jenan Kharbush**      **77**      **8:45-9:45 AM**  
**Presentation Title** A Mutagenic Screen for Dominant-Negative Alleles of the *swi6* gene in *Schizosaccharomyces pombe*  
**Research Mentor** Danesh Moazed  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Ripon College  
**Co-Authors** Erica Gerace and Danesh Moazed, Harvard University

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**Candice King**      **79**      **8:45-9:45 AM**  
**Presentation Title** Analysis Of Blood And Lymphatic Vascular Development In Mutant *Vezf1* Embryos Using Immunostaining  
**Research Mentor** Heidi Stuhlmann  
**Research Institution** Weill Cornell Graduate School  
**Home Institution** Medgar Evers College, CUNY  
**Co-Authors** Heidi Stuhlmann, Weill Cornell Graduate School




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**Laura Mainardi**                      **81**                      **8:45-9:45 AM**  
**Presentation Title** Effects of Long Duration Anesthesia on Neural Activity and Neurovascular Coupling in Rats  
**Research Mentor** Chris Schaffer  
**Research Institution** Cornell University  
**Home Institution** Brown University  
**Co-Authors** Chris Schaffer and Flor Medina, Cornell University

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**Nilsa Mendez**                      **83**                      **8:45-9:45 AM**  
**Presentation Title** Regulation of Estrogen Related Receptor alpha (ESRR) Localization and Signaling by the Kinesin KIF17  
**Research Mentor** Geri Kreitzer  
**Research Institution** Weill Cornell Graduate School  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Geri E. Kreitzer, Weill Cornell Graduate School

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**Katherine Meyer**                      **85**                      **8:45-9:45 AM**  
**Presentation Title** The Role of the Histone Demethylase SPR-5 in DNA Damage Biology  
**Research Mentor** Amanda Nottke  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Carleton College  
**Co-Authors** Monica Colaiacovo and Amanda Nottke, Harvard University

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**Charles Molokwu**                      **87**                      **8:45-9:45 AM**  
**Presentation Title** Micromanipulation of DNA fibers  
**Research Mentor** Chandran Sabanayagam  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Michael Meadows and Chandran Sabanayagam, Delaware State University; Jessica Dennings, Morgan State University

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**Paloma Monroig**                      **89**                      **8:45-9:45 AM**  
**Presentation Title** Development of an (in vitro) Assay to Examine the Role of Cadherin-11 in Fibroblast-Like Synoviocytes Mediated Cartilage Erosion  
**Research Mentor** Michael Brenner  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution**  
**Co-Authors** Michael Brenner and Erika Noss, Brigham and Woman Hospital/Harvard Medical School

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**Mabel Mora**                      **91**                      **8:45-9:45 AM**  
**Presentation Title** A Screen for Mutants Affecting Epithelial Cell Polarity in *Drosophila melanogaster*  
**Research Mentor** Gertrud Schupbach  
**Research Institution** Princeton University  
**Home Institution** Dillard University  
**Co-Authors** Gertrud Schupbach, Princeton University

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**Stephanie Morales**                      **2**                      **9:45-10:45 AM**  
**Presentation Title** The Effect of Pyocyanine Concentration on Calcium Levels in the Endoplasmic Reticulum in Human Airway Epithelial Cells  
**Research Mentor** Amy Palmer  
**Research Institution** University of Colorado at Boulder  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Amy Palmer and Schuyler Van Egelburg, University of Colorado at Boulder

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**Eric Morgan**                      **4**                      **9:45-10:45 AM**  
**Presentation Title** Electrochemical Study of Heteropolymetallic Complexes  
**Research Mentor** Bizuneh Workie  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Bizuneh Workie, Jessica Tyler, and Donna-Rae Boucek, Delaware State University

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**James Muller**                      **6**                      **9:45-10:45 AM**  
**Presentation Title** The Molecular Basis for Differential Mating Speeds in *Drosophila m.*  
**Research Mentor** Harbinder Singh Dhillon  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Harbinder Dhillon, Delaware State University

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**Jeanette Muniz**                      **8**                      **9:45-10:45 AM**  
**Presentation Title** The Role of Transmembrane Collagens in Lung Cancer and Tumor Metastasis  
**Research Mentor** Bruce Zetter  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Dartmouth College  
**Co-Authors** Bruce Zetter and Kristin Spivey, Harvard Medical School



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**Cristina Nigro** 10 9:45-10:45 AM  
**Presentation Title** Comparing a Potential Novel Antipsychotic Therapy, Glutamate mGlu2/3 Receptor Agonist, to Marketed Antipsychotics Using Biochemical, Behavioral and Molecular Pharmacology  
**Research Mentor** David Calligaro  
**Research Institution** Eli Lilly and Company  
**Home Institution** University of Pennsylvania  
**Co-Authors** David Calligaro, Eli Lilly and Company

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**Bahawa Nimaga** 12 9:45-10:45 AM  
**Presentation Title** Signaling Stress Induced O-GlcNAc Modification of Nuclear and Cytoplasmic Proteins  
**Research Mentor** Natasha Zachara  
**Research Institution** Johns Hopkins University  
**Home Institution** San Diego Mesa College  
**Co-Authors** Natasha Zachara, Johns Hopkins University

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**Oscar Nnoli** 14 9:45-10:45 AM  
**Presentation Title** Evaluation of Mechanisms Involved in the Therapeutic Effects of IFN-beta in Multiple Sclerosis  
**Research Mentor** Barbara Detrick  
**Research Institution** Johns Hopkins University  
**Home Institution** CSU Northridge  
**Co-Authors** Barbara Detrick, Johns Hopkins University; John J. Hooks and Kozaburo Hayashi, National Eye Institute, National Institutes of Health

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**Rafael Oania** 16 9:45-10:45 AM  
**Presentation Title** BDNF Polymorphism and its Effects on Amygdala & Hippocampus Volumes & Behavioral Phenotypes  
**Research Mentor** Liat Levita  
**Research Institution** Weill Cornell Graduate School  
**Home Institution** Loyola Marymount University-Los Angeles  
**Co-Authors** Fatima Soliman, Liat Levita and BJ Casey, Weill Cornell Medical College

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**John Old Elk** 18 9:45-10:45 AM  
**Presentation Title** Behavioral Markers of Neuroprotection: Apparatus Location Preference  
**Research Mentor** Alex Babcock  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Little Big Horn College  
**Co-Authors** Cameron Robinson, Courtney Chapman and Alex M. Babcock, Montana State University

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**Inema Orukari** 20 9:45-10:45 AM  
**Presentation Title** Electrophysiologic Monitoring of Brain Herniation from Space-Occupying Lesion  
**Research Mentor** Nitish Thakor  
**Research Institution** Johns Hopkins University  
**Home Institution** CSU San Jose  
**Co-Authors** Nitish Thakor, Matt Koenig and Youngseok Choi, Johns Hopkins University

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**Sharon Paitoo** 22 9:45-10:45 AM  
**Presentation Title** Spatial Differentials and Health Gaps in Ghana  
**Research Mentor** Michael White  
**Research Institution** Brown University  
**Home Institution** Fort Valley State University  
**Co-Authors** Michael White, Brown University

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**Marybelle Pe** 24 9:45-10:45 AM  
**Presentation Title** The Subcellular Distribution of the NMDA Receptor Subunit NR2B in the Hypothalamus Following Hypertension on Young and Perimenopausal Mice  
**Research Mentor** Teresa Milner  
**Research Institution** Weill Cornell Graduate School  
**Home Institution** University of Illinois at Urbana-Champaign  
**Co-Authors** Teresa Milner, Weill Cornell Graduate School

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**Enmanuel Perez** 26 9:45-10:45 AM  
**Presentation Title** Examining Proteins Involved in Neuronal Polarization  
**Research Mentor** Anthony Oliva  
**Research Institution** University of Miami  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Anthony Oliva and John Bixby, University of Miami

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**James Poland** 28 9:45-10:45 AM  
**Presentation Title** A Microsporidial Protein is an Enzyme that Hypermethylates RNA Cap Structures  
**Research Mentor** Peter DiMaria  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Peter DiMaria, Krystal Lambert and Keri-lyn LaFountain, Delaware State University




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**Vinaykumar Prajapati**      **30**      **9:45-10:45 AM**  
**Presentation Title** Analysis of Tetracyclines in Manure and Soil Using Solid Phase Extraction and High Performance Liquid Chromatography  
**Research Mentor** Qiquan Wang  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Q.Q.Wang and R.C. Xuan, Delaware State University

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**Brittany Richardson**      **32**      **9:45-10:45 AM**  
**Presentation Title** Clinical, Radiographic, and Pathologic Phenotype of Patients with Myositis Associated ILD  
**Research Mentor** Sonye Danoff  
**Research Institution** Johns Hopkins University  
**Home Institution** University of Maryland, Baltimore County  
**Co-Authors** Sonye Danoff, Johns Hopkins University School of Medicine

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**Shilo Rides The Bear**      **34**      **9:45-10:45 AM**  
**Presentation Title** Development of a Culturally Educational Booklet on Patient/Provider Communication on the Crow Reservation  
**Research Mentor** Suzanne Christopher  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Little Big Horn College  
**Co-Authors** Vanessa Watts, Montana State University Bozeman

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**Rocio Rivera**      **36**      **9:45-10:45 AM**  
**Presentation Title** The NUT Monoclonal Antibody Epitope: A Tool to Characterize NUT Midline Carcinoma Oncogenesis  
**Research Mentor** Christopher A. French  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Christopher A. French and Michael Cameron, Brigham and Women's Hospital

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**Cameron Robinson**      **38**      **9:45-10:45 AM**  
**Presentation Title** Modulation of Angiotensin Receptors: Neuroprotective Efficacy  
**Research Mentor** Alex Babcock  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Montana State University -Bozeman  
**Co-Authors** Alex M. Babcock and Courtney Chapman, Montana State University; Molly Kirk, Bozeman Senior High School

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**Franklyn Rocha**      **40**      **9:45-10:45 AM**  
**Presentation Title** Mechanisms that Mediate A $\beta$ -Enhancement of Tau Toxicity in Drosophila  
**Research Mentor** Mel Feany  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Mel Feany and Brian Duboff, Harvard University Div. of Medical Sciences

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**Karen Rodriguez**      **42**      **9:45-10:45 AM**  
**Presentation Title** Thrombopoietin Modulates Hematopoietic Reconstitution through Regeneration after Vascular Niche  
**Research Mentor** Shahin Rafii  
**Research Institution** Weill Cornell Graduate School  
**Home Institution** University of Colorado at Boulder  
**Co-Authors** Jason Butler, Weill Cornell Graduate School; Shahin Rafii, Howard Hughes Medical Institute

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**Kenia Rodriguez**      **44**      **9:45-10:45 AM**  
**Presentation Title** Do Deficits in Swim Maze Performance in Dopamine Transporter Knockout Mice Reflect Impairments in Memory?  
**Research Mentor** George Uhl  
**Research Institution** Johns Hopkins University  
**Home Institution** Vassar College  
**Co-Authors** Scott Hall, National Institutes of Health; George Uhl, Johns Hopkins University School of Medicine/NIH

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**Stephanie Rodriguez**      **46**      **9:45-10:45 AM**  
**Presentation Title** Defining the Relationship between Glial Progenitor Cells and Nodes of Ranvier in CNS White Matter  
**Research Mentor** Dwight Bergles  
**Research Institution** Johns Hopkins University  
**Home Institution** Stanford University  
**Co-Authors** Dwight Bergles and Lindsay DeBiase, Johns Hopkins University

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**Andre Rosario**      **48**      **9:45-10:45 AM**  
**Presentation Title** HPV16 Subversion of Epigenetic Programs through Association with PcG Protein Complexes  
**Research Mentor** Karl Munger  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Howard University  
**Co-Authors** Karl Munger and Margaret McLaughlin-Drubin, Harvard University Div. of Medical Sciences



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**Maria Russell**                      **50**            **9:45-10:45 AM**  
**Presentation Title** Freeze-Thaw Survival of Bacteria  
Isolated From Glacier Environments  
**Research Mentor** Mark Skidmore  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Chief Dull Knife College  
**Co-Authors** Corien Bakermans and Mark Skidmore,  
Montana State University

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**Jennifer Salemme**                **52**            **9:45-10:45 AM**  
**Presentation Title** Regulation of PIASx Phosphorylation  
in Postsynaptic Differentiation  
**Research Mentor** Azad Bonni  
**Research Institution** Harvard University, Division of  
Medical Sciences  
**Home Institution** University of Wisconsin, Whitewater  
**Co-Authors** Tomoko Yamada and Azad Bonni, Harvard  
University, Division of Medical Sciences

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**Ilona Savich**                        **54**            **9:45-10:45 AM**  
**Presentation Title** Chronological Life-Span Analysis of  
Histone H2B Mutants  
**Research Mentor** Jef Boeke  
**Research Institution** Johns Hopkins University  
**Home Institution** Syracuse University  
**Co-Authors** Jef Boeke and Junbiao Dai, Johns Hopkins  
Medical Institute

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**Hilary Schiffer**                    **56**            **9:45-10:45 AM**  
**Presentation Title** Identification of the Bacterial  
Microbiota of the Adult Human Nares and Pharynx Using  
Culture-independent Methods  
**Research Mentor** Roberto Kolter  
**Research Institution** Harvard University, Division of  
Medical Sciences  
**Home Institution** UMass Amherst  
**Co-Authors** Roberto Kolter, Katherine P. Lemon and Vanja  
Klepac Ceraj, Harvard Medical School

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**Tiffany Shand**                      **58**            **9:45-10:45 AM**  
**Presentation Title** Roles for the DNA Damage Checkpoint  
Protein Hus 1 in Skin Cancer  
**Research Mentor** Robert Weiss  
**Research Institution** Cornell University  
**Home Institution** Brooklyn College  
**Co-Authors** Stephanie Yazinski, Rachel Peters and  
Robert S. Weiss, Cornell University

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**Katharin Shaw**                    **60**            **9:45-10:45 AM**  
**Presentation Title** Investigating Cytokinesis Defects  
Caused by a Small Molecule and the Knockdown of a  
Novel Gene  
**Research Mentor** Ulrike Eggert  
**Research Institution** Harvard University, Division of  
Medical Sciences  
**Home Institution** Transylvania University  
**Co-Authors** Ulrike Eggert and Xin Zhang,  
Harvard University

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**Elina Shrestha**                    **62**            **9:45-10:45 AM**  
**Presentation Title** The Role of Kaposi's Sarcoma  
Associated Herpes Virus Genomic Terminal Repeats in  
Viral Episomal Maintenance  
**Research Mentor** Kenneth Kaye  
**Research Institution** Harvard University, Division of  
Medical Sciences  
**Home Institution** Mount Holyoke College  
**Co-Authors** Kenneth Kaye and Horng-Shen Chen,  
Harvard University Div. of Medical Sciences

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**Maria-Carolina Simao**            **64**            **9:45-10:45 AM**  
**Presentation Title** Preparing for Reproduction: Estrogen  
and Progesterone Levels in Yellow Baboons (*Papio  
cynocephalus*)  
**Research Mentor** Jeanne Altmann  
**Research Institution** Princeton University  
**Home Institution** Rice University  
**Co-Authors** Jeanne Altmann and Laurence Gesquiere,  
Princeton University

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**Dariana Soto-Reyes**              **66**            **9:45-10:45 AM**  
**Presentation Title** Transgenerational Maintenance of  
Imprinted DNA Methylation  
**Research Mentor** Paul Soloway  
**Research Institution** Cornell University  
**Home Institution** UPR-Rio Piedras  
**Co-Authors** Paul D. Soloway, Chelsea McLean and Amy  
Jobe, Cornell University

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**Maria Spire**                        **68**            **9:45-10:45 AM**  
**Presentation Title** Community-associated MRSA:  
Understanding its Innate Immune Evasion Strategies  
**Research Mentor** Jovanka Voyich-Kane  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Chief Dull Knife College  
**Co-Authors** Jovanka Voyich and Shannon Griffith,  
Montana State University




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**Ja'Pel Sumpter**                      **70**            **9:45-10:45 AM**  
**Presentation Title** The Effect Of Coadsorption on Organic Acid Monolayer Formation  
**Research Mentor** Steven Bernasek  
**Research Institution** Princeton University  
**Home Institution** Winston-Salem State University  
**Co-Authors** Steven L. Bernasek, Princeton University

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**Johnny Taylor**                      **72**            **9:45-10:45 AM**  
**Presentation Title** Pathogenic Bacteria Associated with Organic Produce  
**Research Mentor** Clytrice Watson  
**Research Institution** Delaware State University  
**Home Institution** Delaware State University  
**Co-Authors** Clytrice Watson, Delaware State University

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**Zenar Tekeste**                      **74**            **9:45-10:45 AM**  
**Presentation Title** Prevention of Cigarette Smoke Induced Endothelial Cell Apoptosis  
**Research Mentor** Rachel Damico  
**Research Institution** Johns Hopkins University  
**Home Institution** Case Western Reserve University  
**Co-Authors** Rachel L. Damico, Johns Hopkins University

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**Taralee Thompson**                **76**            **9:45-10:45 AM**  
**Presentation Title** Unfolded Protein Response in Pulmonary Hypertension  
**Research Mentor** Gaurav Choudhary  
**Research Institution** Brown University  
**Home Institution** Brooklyn College  
**Co-Authors** Gaurav Choudhary, Brown University/VAMC

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**Hoang-Lan Tran**                    **78**            **9:45-10:45 AM**  
**Presentation Title** The Release of Intracellular ATP to the Extracellular Space via Mechanosensitive Channels  
**Research Mentor** Guido Guidotti  
**Research Institution** Harvard University  
**Home Institution** UCLA  
**Co-Authors** Guido Guidotti, Harvard University

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**Carlos Vera**                         **80**            **9:45-10:45 AM**  
**Presentation Title** Effects of a Potent BMP-7 Mutant on HUVEC Cells  
**Research Mentor** Scott Rowlinson  
**Research Institution** Eli Lilly and Company  
**Home Institution** UPR-Mayaguez  
**Co-Authors** Jacquelyn McEntire and Scott Rowlinson, Eli Lilly and Company

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**April Wayman**                      **82**            **9:45-10:45 AM**  
**Presentation Title** Genetic Characterization of the Role of Vitamin K Epoxide Reductase in Mycobacterial Disulfide Bond Formation  
**Research Mentor** Jon Beckwith  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Mount St. Mary's College  
**Co-Authors** Rachel J. Dutton, Dana Boyd and Jon Beckwith, Harvard Medical School

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**Renaldo Williams**                **84**            **9:45-10:45 AM**  
**Presentation Title** The Effects of Mutations in AQP5 on Epithelial Responses to Shear Stress and Cigarette Smoke  
**Research Mentor** Venkataramana Sidhaye  
**Research Institution** Johns Hopkins University  
**Home Institution** Tougaloo College  
**Co-Authors** Venkataramana Sidhaye and Landon King, Johns Hopkins School of Medicine

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**Tomi Wooden Legs**                **86**            **9:45-10:45 AM**  
**Presentation Title** Behavioral Markers of Neuroprotection: Locomotor Activity and Thigmotaxis  
**Research Mentor** Mike Babcock  
**Research Institution** Montana State University -Bozeman  
**Home Institution** Chief Dull Knife College  
**Co-Authors** Cameron Robinson, Courtney Chapman and Michael Babcock, Montana State University

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**Nasser Yaghi**                        **88**            **9:45-10:45 AM**  
**Presentation Title** Functional Study of PHF8 PHD Finger in Histone Binding and Demethylation  
**Research Mentor** Hank Qi  
**Research Institution** Harvard University, Division of Medical Sciences  
**Home Institution** Texas A&M University  
**Co-Authors** Hank Qi and Yang Shi, Harvard Medical School

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**Erin Yarborough**                    **90**            **9:45-10:45 AM**  
**Presentation Title** Placental Gene Expression in Intrauterine Drug and Nicotine Exposure  
**Research Mentor** James Padbury  
**Research Institution** Brown University  
**Home Institution** Winston-Salem State University  
**Co-Authors** Bethany McGonnigal and James Padbury, Women & Infants Hospital/Brown University