

Morning Poster Session

Group A Chemical Sciences

1st Place Poster 129

EXPOSING THE POSSIBLE HAZARDS OF PLUG-IN AIR FRESHENERS

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2nd Place Poster 86

DETERMINATION OF ETHANOL CONCENTRATION USING RAMAN SPECTROSCOPY

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Group B Chemical Sciences

1st Place Poster 62

SYNTHESIS OF DUAL-ACTING KDM INHIBITOR-ANDROGEN RECEPTOR ANTAGONISTS

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2nd Place Poster 49

OVERCOMING DEGRADATION: A NOVEL SYNTHETIC STRATEGY FOR ANTISENSE OLIGONUCLEOTIDE ANALOGS

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Group C Chemical Sciences

1st Place Poster 34

**DEVELOPMENT OF A REACTION-BASED CHEMICAL SENSOR FOR THE
DETECTION OF ATRAZINE**

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Ryan Walvoord¹

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2nd Place Poster 96

SYNTHESIS OF TETRACATIONIC AMPHIPHILIC VIOLOGENS

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Terry², Dr. Kyle Seifert²
Dr. Kevin Caran¹

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Group D Chemical Sciences

1st Place Poster 66

SYNTHESIS OF SUPPORTED THORIUM ARYL IMIDO COMPLEXES

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Eric Schelter¹

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2nd Place Poster 56

GREEN CHEMISTRY CATALYSTS FOR TRANSFER HYDROGENATION

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Group E Chemical Sciences

1st Place Poster 102

THE PREPARATION OF PALLADIUM COMPLEXES OF N-PYRAZOLYLPROPANAMIDE DERIVATIVES

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2nd Place Poster 64

IONIZING NANOCOMPOSITES FOR EFFICIENT γ - RAY SENSORS

Giraso Keza Kabandana, Vishall Dayal, Bradley Arnold, Stacey Sova, Christopher Cooper, Fow-Sen Choa and N. B. Singh

Department of Chemistry and Biochemistry

And

Department of Computer Science and Electrical Engineering

University of Maryland, Baltimore County, 1000 Hilltop Circle, Baltimore MD 21250

Group F Chemical Sciences

1st Place Poster 137

CHANGES IN IRON, MANGANESE, COPPER, ZINC AND ARSENIC LEVELS RESULTING FROM THE APPLICATION OF POULTRY MANURE TO AGRICULTURAL SOILS

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2nd Place Poster 29

LEAD CARBONATION IN VARIABLY HUMID SWELLING CLAYS

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Geoffrey M. Bowers¹

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Group G Chemical Sciences

1st Place Poster 104

CONDUCTIVE YARN-LIKE THREAD FOR WIRELESS WOUND SENSING

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Medford, MA 02155

2nd Place Poster 53

**DEVELOPMENT OF RASPBERRY PI AND ARDUINO-BASED THERMAL
STABILIZER AND DESORBER FOR GC/MS VAPOR ANALYSIS**

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Emmitsburg, MD 21727

Group H Biological Sciences

1st Place Poster 39

**DATA-MINING IMPACTS OF U.S MORTALITY FROM DISEASES OF THE
CIRCULATORY SYSTEM, DIABETES, AND NEOPLASMS**

Morgan Gannon

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Undergraduate Research Center for Analytics, Talent, and Success, Wesley College,
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2nd Place Poster 48

HYPERTONIA MACHINE

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Group I Biological Sciences

1st Place Poster 126

THE ROLE OF RAB35 IN SEA URCHIN MORPHOGENESIS

Michael Testa¹ and Jia L Song¹,

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2nd Place Poster 75

UTERINE EXPRESSION OF *NHR-67* IN *C. ELEGANS*

Katarina Liberatore¹,

Dr. Bruce Wightman¹

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Group J Biological Sciences

1st Place Poster 27

THE EFFECT OF YAP PROTEIN EXPRESSION ON CELL PROLIFERATION

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2nd Place Poster 103

IDENTIFICATION OF GENES THAT AFFECT ACETYLCHOLINE SIGNALING AT THE *C. ELEGANS* NEUROMUSCULAR JUNCTION

Shrey Patel¹, Amanda Addiego¹, Kirsten Kervin¹

Jessica Tanis¹

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Group K Biological Sciences

1st Place Poster 5

**COPY NUMBER OF TRANSGENIC CALVIN-BENSON CYCLE GENE FBPSBPASE IN
THE MICROALGA *CHLAMYDOMONAS REINHARDTII***

Holly Asbury¹, Rudolph Park¹

Stephen M. Miller¹

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Circle, Baltimore, Maryland 21250

2nd Place Poster 112

**ALTERING THE EPIGENETIC LANDSCAPE: COUNTERACTING THE EFFECTS OF
EARLY STRESS VIA EPIGENOME MODIFICATION**

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Delaware, 210 South College Avenue, Newark, Delaware 19716

Group L Biological Sciences

1st Place Poster 63

**WHOLE-GENOME EPIDEMIOLOGY OF ENVIRONMENTAL *SALMONELLA*:
OPTIMIZATION AND INTEGRATION INTO AN UNDERGRADUATE COURSE**

Sophie Jurgensen, Charles Holmes

Dr. James Herrick

Department of Biology, James Madison University, 951 Carrier Drive, Harrisonburg, Virginia
22807

2nd Place Poster 92

**NEXT GENERATION SEQUENCING ANALYSIS OF PUMPKIN, A NOVEL
MUTATION IN *DROSOPHILA***

Katharyne Murphy, Elisa Sangriu, and Peter Vos

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Group M Biological Sciences

1st Place Poster 40

THE ROLE OF THE NON-CANONICAL WNT/CALCIUM PATHWAY IN THE DEVELOPMENT AND FUNCTION OF PRIMARY MESENCHYME CELLS

Alexander George¹, Tyler McCann¹, Nadezda Stepicheva¹, and Jia L. Song²

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2nd Place Poster 15

NEURAL REGULATION OF SLEEP-LIKE STATE BY THE GENE *fax-1* IN THE NEMATODE *C. ELEGANS*

Susanna, Birnbaum,

Bruce, Wightman

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Group N Biological Sciences

1st Place Poster 38

CHARACTERIZING THE PATHOPHYSIOLOGY OF *DROSOPHILA* RETINAL DEGENERATION MUTANT, *RDGI*

Madison Frongello¹, Gabriela Constanca¹, Graham Price¹

Marquis Walker¹

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2nd Place Poster 110

CHARACTERIZING GLIOBLASTOMA STEM CELLS FOR L1CAM EXPRESSION AND RESPONSIVENESS

Kyle Plusch¹, Alexander Stubbolo, Camryn Bernheimer

Deni S. Galileo, PhD¹

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Group O Biological Sciences

1st Place Poster 83

POSTURAL MOVEMENTS ACCOMPANY THE HEAT EVOKED NOCICEPTIVE WITHDRAWAL RESPONSE OF THE TAIL AND HIND LIMB IN UNRESTRAINED RATS

Seerat Mavi, Mary E. Pegelow, and Corey L. Cleland

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2nd Place Poster 59

**OVEREXPRESSION OF CALVIN CYCLE ENZYME FRUCTOSE-BISPHOSPHATE
ADOLASE TO INCREASE ALGAL GROWTH RATE**

Lian Jackson¹, Binika Chunara², Rose Gbemefu²
Stephen M. Miller¹

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Group P Biochemical & Molecular Biology

1st Place Poster 98

**BIOPHYSICAL AND BIOCHEMICAL CHARACTERIZATION OF
MITOCHONDRIAL TRANSCRIPTION ON CHIMERIC AND AUTHENTIC
MITOCHONDRIAL DNA TEMPLATES**

Guinevere Oliver¹, Dr. Jamie Arnold¹, Alex Lugo¹, Dr. Craig Cameron¹, Dr. Markus Kastner¹
Dr. Markus Kastner¹

¹Department of Biochemistry and Molecular Biology

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2nd Place Poster 128

**LIBRARY GENERATION AND SEQUENCE ANALYSIS OF *NAP A* GENE VARIANTS
FROM A WETLAND IN WINTER**

Melissa Vaaltyn¹, Katherine Miller¹

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Group Q Biochemical & Molecular Biology

1st Place Poster 8

**MUTATIONAL AND BIOCHEMICAL ANALYSES OF ISOPRENYLCYSTEINE
CARBOXYL METHYLTRANSFERASE**

Sahej Bains¹, Amy Funk¹
Christine Hrycyna¹

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2nd Place Poster 3

**IDENTIFYING NEW TARGETS OF THE LYSINE METHYLTRANSFERASE SET5 AND
DETERMINING THE EFFECT OF PHOSPHORYLATION ON ITS METHYLATION
ACTIVITY**

Assefa Akinwole¹, Sylvia Min¹, Marlene Keisha Kontcho¹, Rashi Turniansky¹, James Moresco²,
Julie Wolf¹, John Yates III² and Erin M. Green¹

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Group R Biochemical & Molecular Biology

1st Place Poster 97

**EXAMINING THE CYTOTOXICITY OF LDL-DHA NANOPARTICLES ON
GLIOBLASTOMA SPHEROIDS**

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²University of Texas Southwestern Medical Center at Dallas 5323 Harry Hines Blvd, Dallas,
TX, 75390

2nd Place Poster 101

**COMBINATION PHOTOTHERMAL THERAPY AND PHOTODYNAMIC THERAPY
FOR CANCER TREATMENT**

Rachel O'Sullivan¹, Rachel S. Riley¹, Andrea Potocny²,
Joel Rosenthal², and Emily S. Day¹

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Group S Biochemical & Molecular Biology

1st Place Poster 125

***IN SILICO* EXPLORATION OF THE MECHANISM OF TRANSLESION SYNTHESIS
BY DINB**

Tracy Tauro¹, Elevit Perez²
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NY 10021

2nd Place Poster 7

**BIOINFORMATICS BASED IDENTIFICATION OF CIS-REGULATORY G-
QUADRUPLEX MOTIFS IN THE HUMAN PTCHD1 GENE INVOLVED IN AUTISM**

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Group T Biochemical & Molecular Biology

1st Place Poster 120

**GENETIC DELIVERY OF RNA MOLECULES TO ALTER EXPRESSION OF EGFR IN
GLIOBLASTOMA MULTIFORME**

Nicole Sivetz¹, Sarah C. Falotico¹, Peter Nekrasov¹
Martin J. Hicks¹

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2nd Place Poster 99

**ACTIVATION OF PATERNAL UBE3A GENE WITH ARTIFICIAL TRANSCRIPTION
FACTORS FOR ANGELMAN SYNDROME**

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David Segal²

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Road, Princess Anne, MD 21853

²Department of Biochemistry and Molecular Medicine, University of California, Davis
CA 95616

Group U Biochemical & Molecular Biology

1st Place Poster 4

**HRV-C INDUCES PI4P BIOSYNTHESIS BY HIJACKING THE ARF1-GBF1
PATHWAY**

Chanya Anderson, David Aponte-Diaz and Craig E. Cameron

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Althouse Laboratory University Park, PA 16802

2nd Place Poster 132

**MTDNA SEQUENCING IN HEAD-AND-NECK SQUAMOUS CELL CARCINOMA AS AN
INDICATOR OF INTRATUMORAL HETEROGENEITY AND LYMPH NODE METASTASIS**

Neha Wali^{1,2}, Evgeny Izumchenko, PhD², Adrian Schubert, MD^{2,3}, Chani Broner, PhD², Anuj Gupta,
MS⁴, Sarah Wheelan, MD, PhD⁴, Vasana Yegnasubramanian, MD, PhD⁴, and David Sidransky, MD²

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Group V Biochemical & Molecular Biology

1st Place Poster 91

**SYNTHESIS OF A MINI-REPORTER TO TEST RNA THERAPEUTIC STRATEGIES
TO BLOCK VEGFR2 AND ANGIOGENESIS IN HUMAN GBM**

Koushik Muralidharan¹, Kerianne Fuoco, Arbaz M. Khan, Hemangi Patel
Martin J Hicks¹

¹Department of Biology, Monmouth University, 400 Cedar Avenue,
West Long Branch, New Jersey 07764

2nd Place Poster 23

**FUNCTIONAL ANALYSIS OF SEXUALLY DIMORPHIC LONG NONCODING
RNAs IN THE DROSOPHILA GERMLINE**

Binglin Chen¹, Caitlin Pozmanter¹
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21218

Group W Biochemical & Molecular Biology

1st Place Poster 21

CHARACTERIZATION OF EARLY STAGES OF AMYLOID FORMATION BY LIGHT CHAINS INVOLVED IN RENAL AMYLOIDOSIS

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2nd Place Poster 18

SPECTROSCOPIC STUDIES OF BUFFER AND METAL ION EFFECTS ON AMYLOID- β PEPTIDE STRUCTURE AND AGGREGATION

Keyon Carter¹, Elijah T. Johnson¹, Taylor P. Light¹
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Group X Biochemical & Molecular Biology

1st Place Poster 122

SELECTION OF AN APTAMER THAT BINDS GLUCOSE

Emma Stowell¹, Danielle Barbieri¹
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Place Poster 122

2nd Place Poster 1

DETERMINATION OF A SAFE DOSE OF MESENCHYMAL STEM CELLS FOR SYSTEMIC ADMINISTRATION

Claire Anne Abijay^{1,2}
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Group Y Biochemical & Molecular Biology

1st Place Poster 80

THE INTERACTION OF THE CLASS II TRANSACTIVATOR WITH 14-3-3 BETA

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2nd Place Poster 41

**tRNA^{Lys3} OUTCOMPETES PI(4,5)P₂ IN MODEL CELL MEMBRANES FOR HIV-1
MATRIX BINDING**

Noel Getachew¹, Matthew McDonough², Emre Tkacik², Phoebe Somani², Amalia Rivera-Oven²,
Christy Gaines² and Dr. Michael Summers²

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Group Z Biochemical & Molecular Biology

1st Place Poster 55

**THE ROLE OF DITYROSINE IN THE PROTECTION OF *SACCHAROMYCES
CEREVISIAE* SPORES FROM UV LIGHT**

James Hughes¹, Nathan Navarro¹, Christopher Cortes¹, Elizabeth Walton¹ and Edward Winter²
Aikaterini Skokotas¹

2nd Place Poster 44

**PURIFICATION OF NADPH-CYTOCHROME P-450 REDUCTASE FROM PIG LIVER
MICROSOMES**

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PA 15282

Afternoon Poster Session

Group AA Chemical Sciences

1st Place Poster 232

**METHOD DEVELOPMENT FOR FAST SCREENING OF DRUG EXCIPIENT
PROFILES BY ULTRA HIGH PRESSURE LIQUID CHROMATOGRAPHY –
EVAPORATIVE LIGHT SCATTERING DETECTION**

Laura Ribeiro¹

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¹United States Food and Drug Administration, Division of Product Quality Research,
Silver Spring, Maryland, 20993

2nd Place Poster 147

**USING X-RAY FLUORESCENCE SPECTROSCOPY APPLICATIONS TO DESIGN
AND IMPROVE SCIENTIFIC EXPERIMENTS**

Pegah Avazpour¹, Thaina Brito², Perry Wood³, Patricia Sheppard³, Debra Ellis³, Wen Nellis³,
Brianna Higgins⁴, and Christopher Stromberg⁴

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Group BB Chemical Sciences

1st Place Poster 221

AMMONIA EVOLUTION REACTION IN AMBIENT CONDITIONS

Lauren Ostopowicz¹; Anders B. Laursen, PhD²; Christopher R. Dziedzaik²
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2nd Place Poster 185

GREEN CHEMISTRY ONE-POT SYNTHESIS OF CHALCONE EPOXIDES

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Group CC Chemical Sciences

1st Place Poster 218

**CHARACTERIZATION of CHITIN-BASED SORBENTS FOR CARBON DIOXIDE
SEQUESTRATION**

Uche Onuchukwu¹, Preeti Sharma¹, Benjamin Barnes¹,
Victoria Volkis¹

¹Department of Natural Sciences, University of Maryland Eastern Shore, Princess Anne,
MD 21853

2nd Place Poster 174

**REVEALING A NOVEL CRYSTALLINE PHASE FOR A PHOSPHONATE-BASED
BIOCOMPATIBLE COORDINATION POLYMER**

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Vilmalí López-Mejías^{2,3}

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USA

Group DD Chemical Sciences

1st Place Poster 181

**INTERNALIZATION DYNAMICS OF THE DISEASE-ASSOCIATED DOPAMINE
TRANSPORTER A559V VARIANT**

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and Astronomy⁵; at Vanderbilt University, 2201 West End Avenue, Tennessee 37235;

Vanderbilt Institute of Chemical Biology⁶, Vanderbilt Institute of Nanoscale Science and
Engineering⁷

2nd Place Poster 255

**MODIFYING *DE NOVO*-DESIGNED *DUE FERRI* SINGLE-CHAIN (DFSC) PROTEINS
TO MODEL COUPLED BINUCLEAR COPPER PROTEINS**

Brian Van Dyke¹, Sophia Worthington-Kirsch¹
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Group EE Chemical Sciences

1st Place Poster 193

CRYSTALLIZATION MECHANISMS ON SILOXANE TEMPLATES

Hannah Kang¹, Marina A. Solomos,¹ Serena Seshadri,¹ and
Jennifer Swift¹

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2nd Place Poster 184

**INTERFACE AND SURFACE RELATIONS OF THE GADOLINIUM-DOPED CERIA
AND COBALT FERRITE MIXED IONIC-ELECTRONIC CONDUCTOR**

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Group FF Chemical Sciences

1st Place Poster 245

**COMPUTATIONAL ANALYSIS OF RO-VIBRATIONS OF VINYL ALCOHOL AND
THE FORMATION OF 2-CHLOROETHANOL**

Rebekah M. Soliday, Paul L. Raston. & Isaiah Sumner.

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2nd Place Poster 227

**PARTIAL MOLAR VOLUMES AND VOLUME OF MIXING OF SALTS IN AQUEOUS
SOLUTIONS**

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Dr. Yanjie Zhang¹

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Group GG Chemical Sciences

1st Place Poster 229

**THE RELATIONSHIP BETWEEN CALCIUM CONCENTRATION AND ZEBRA MUSSELS IN
THE BRAINERD LAKES AREA**

Kelsey Prickett, Brandt Marceaux, and Daniel J. Lundberg Ph.D.
Department of Science, Technology, and Mathematics
Gallaudet University, 800 Florida Ave NE, Washington DC 20002

2nd Place Poster 175

**TARGETED AND UNTARGETED METABOLOMICS PROFILING ON A PALE ALE
BREWED WITH GENETICALLY DIFFERENT YEAST STRAINS**

Kearney Foss¹, Karen Fortmann²
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Harrisonburg, VA 22801

²White Labs, San Diego, CA

Group HH Biological Sciences

1st Place Poster 199

**MICRORNA-31 REGULATION OF *EVE* EXPRESSION IN THE EARLY SEA URCHIN
EMBRYO**

Chelsea Lee¹, Nadezda Stepicheva¹, Jia L. Song¹

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2nd Place Poster 261

**CHARACTERIZING LONG NON-CODING RNA IN THE ASIAN CITRUS PSYLLID
THROUGH GENOME ANNOTATION AND MOLECULAR BIOLOGY**

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Surya Saha¹

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Group II Biological Sciences

1st Place Poster 190

**THE EFFECT OF RIBOSOME ACTIVATION ON LEARNING AND MEMORY IN
MICE WITH MEMORY DEFICITS DUE TO rRNA REPRESSION**

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Science Health and Technology, CUNY-Medgar Evers College Brooklyn, New York 11225

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2nd Place Poster 241

**ELEPHANT SPECIES IDENTIFICATION FROM IVORY THROUGH POLYMERASE
CHAIN REACTION AND SEQUENCING ANALYSIS FOR APPLICATION IN WORKS
OF ART**

Thomas Burnett¹, Claire Scott¹, Stacy Davis²
Tracy Smith¹, Cynthia Wagner¹

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Group JJ Biological Sciences

1st Place Poster 188

**ELUDICATING THE ROLE OF DYSREGULATED MANGANESE HOMEOSTASIS IN
DNA DAMAGE RESPONSE SIGNALING IN HUNTINGTON'S DISEASE**

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2nd Place Poster 210

**EFFECTIVENESS OF INTRA-TEAM COMMUNICATIONS IN THE CARDIAC CATH
LAB; EVALUATION OF HOW WE ARE DOING**

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Group KK Biological Sciences

1st Place Poster 155

**PATTERNS OF HLH-2 BINDING AT AN NHR-67 PROMOTER ELEMENT MEDIATE
UTERINE ORGANOGENESIS**

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2nd Place Poster 149

**IDENTIFYING THE MOLECULAR COMPONENTS OF COLD NOCICEPTION IN
*DROSOPHILA MELANOGASTER***

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Group LL Biological Sciences

1st Place Poster 168

**DETERMINING THE OCCURRENCE OF SEX-BIASED DISPERSAL AND
POTENTIAL FOR INBREEDING IN AN ENDANGERED SPECIES, THE SPOTTED
TURTLE (*CLEMMYS GUTTATA*)**

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2nd Place Poster 211

**GENETIC DIVERSITY AT 6 MICROSATELLITE MARKERS IN THE LONG
HORNED CRAZY ANT OF SAN SALVADOR ISLAND, THE BAHAMAS, AND ITS
ASSOCIATION WITH HABITAT DOMINANCE**

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1st Place Poster 249

**CAN L1 CAM SECRETING CELLS ACT AS “PATHFINDERS” FOR BRAIN
CANCER?**

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2nd Place Poster 208

**EPIGENETIC MODIFICATIONS IN THE OLFACTORY BULB AND ANTERIOR
PIRIFORM CORTEX ASSOCIATED WITH INFANT OLFACTORY AND TACTILE
EXPERIENCES**

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1st Place Poster 148

**STIM1, BUT NOT STIM2, IS THE CALCIUM SENSOR CRITICAL FOR SWEAT
SECRETION**

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2nd Place Poster 180

NOVEL STRATEGY TO CLONE A TWENTY-ONE BASEPAIR DNA FRAGMENT

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1st Place Poster 170

NON-INVASIVE PULMONARY FUNCTION TEST ON MORQUIO PATIENTS

Caitlin Doherty^{1,2}, Francyne Kubaski^{1,2}, Shunji Tomatsu^{2,3,4}, Thomas H. Shaffer^{2,5}
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2nd Place Poster 186

**ANTIBACTERIAL PROPERTIES OF NOVEL AMPHIPHILES: EXPLORING
STRUCTURE-ACTIVITY RELATIONSHIPS**

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Group PP Biochemical & Molecular Biology

1st Place Poster 251

**IMPACT OF LOCAL STRUCTURE CHANGES ON CYTOCHROME ENERGY
TRANSFER**

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2nd Place Poster 237

ANALYSIS OF THE SERINE ARGININE-RICH SPLICING FACTOR 1

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1st Place Poster 173

**DESIGN OF AN IMMUNOGENIC AND ANTI-EGFR RNA THERAPEUTIC TO ALTER
RNA AND PROTEIN EXPRESSION IN GLIOBLASTOMA MULTIFORME**

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2nd Place Poster 212

**DETECTION OF NUCLEAR AND CYTOPLASMIC PROTEIN-PROTEIN
INTERACTIONS OF THE CD44-INTRACYTOPLASMIC DOMAIN WITH RUNX2 BY
PROXIMITY LIGATION ASSAY**

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1st Place Poster 143

**CHARACTERIZATION OF SUP35, RNQ1, AND URE2 COTRANSLATIONAL PRION
AGGREGATION IN SACCHAROMYCES CEREVISIAE**

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2nd Place Poster 230

**USING PHOTO-CROSS-LINKING TO DISCOVER NEW BINDING PARTNERS OF
NON-CANONICAL UBIQUITIN CHAINS**

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1st Place Poster 142

**DESMOPLAKIN MUTATIONS' AFFECT ON STRUCTURE AND STABILITY
WITHIN THE SH3 DOMAIN**

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2nd Place Poster 207

**MIMICKING NATURAL PHOTOSYNTHESIS: ULTRAFAST CHARGE TRANSFER
IN PpcA-Ru(bpy)₃ COMPLEXES**

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1st Place Poster 217

INVESTIGATING THE FOLDING LANDSCAPE OF ALPHA-1-ANTITRYPSIN

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2nd Place Poster 257

DIFFERENTIAL BINDING OF C-MYB MUTATNS TO CBP AND P300 KIX DOMAINS

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1st Place Poster 224

**INFLUENCE OF FIBER ORIENTATION AND FIBER MOVEMENT ON CELL
POLARIZATION AND MIGRATION**

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2nd Place Poster 167

ANALYSIS OF ANTIBIOTIC RESISTANCE GENES FOUND IN FRESHWATER

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1st Place Poster 189

**EXPLORATION OF NOVEL MARKERS OF POSTERIOR CAPSULAR
OPACIFICATION**

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2nd Place Poster 159

**ASSESSING THE ROLE OF VIRAL PROTEINS IN THE CASPASE-MEDIATED
REGULATION OF INTERFERON β DURING KAPOSI'S SARCOMA-ASSOCIATED
HERPESVIRUS INFECTION**

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Group WW Biochemical & Molecular Biology

1st Place Poster 157

THE EFFECTS OF EUGENOL ON HELA CELLS

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2nd Place Poster 144

**ANALYZING ANTIBIOTIC RESISTANCE GENES IN LOCAL FRESHWATER
SOURCES**

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Group XX Biochemical & Molecular Biology

1st Place Poster 259

**EXPERIMENTAL AND COMPUTATIONAL STUDIES OF OBSCURIN'S
FLEXIBILITY**

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2nd Place Poster 240

**UTILIZING A C-TERMINAL HIS-TAGGED VECTOR TO RESCUE HIGH PRIORITY
TARGET PROTEINS CONTAINING A SIGNAL PEPTIDE IN VARIOUS PATHOGENS**

Emily Samuels^{1,2}, Sarah Grimshaw^{1,2}, Sofiya Shatsman^{1,2}, Seesandra V. Rajagopala²
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1st Place Poster 114

**ALTERED MICROGLIA MORPHOLOGY AND AGE ACCUMULATION IN THE
RAGE- AND DIAPH1-NULL AGED MURINE SOMOATOSENSORY CORTEX**

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2nd Place Poster 250

**MATRIS-BASED CONTROLLED RELEASE DELIVERY OF ACYCLOVIR FROM
SILICONE AND POLY-EVA
ENTER ABSTRACT TITLE HERE**

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