

CURE Poster Session
Science Complex
May 8, 2026, 1 to 3 p.m.

Poster	Student Presenters	Presentation Title
30	Oluwaseunayo Abatan	AI, Anticipatory Ethics, and Reproductive Consent: Reassessing Davis v. Davis (IVF Embryo Custody Case) in the Age of Algorithmic Decision-Making
40	Joslyn Adams	Finding Population Genetics in Mealybugs Domesticated by <i>Acropyga exsanguis</i> Ants
39	Khaley Adams, Ayodara Ogunlade	A Study of ATR Inhibitors Effect on KSHV Life Cycle through MTS Assay and qPCR
121	Kayode Adegbo, Marcus Alexander Rose, Shiva Pokhrel, Cristofer Varela Duarte, R. Shipra	Application of Ion Energy Spectroscopy for Monitoring Plasma Dynamics in Pulsed Laser Deposition of Complex Metal Oxide Thin Films
41	Barbara Aikaterinidis, Angel Vargas	Analysis of Short Open Reading Frames, <i>bolA_tig_0</i> and <i>cyoA_ampG_0</i> , After Addition of a Protease
31	Dez Akano	Green Transition, Colonial Architecture and Relational Responsibility
42	Oluwajomi Akinwumi	Allergic Asthmatic Mice vs Cockroach Allergen: Defeat or Success? Assessing the Efficacy of BECC-derived Adjuvants to Skew Allergy Immunotherapy
1	Grace Akumkperik	Factors Influencing the Use of Health Facilities for Delivery Amongst Dominican Women

43	Alani Alleyne, Beouncea Ward	Beyond Genomic Noise: Do sORFs mdtH_rimJ_1 and ygeK_ygeN_0 Encode Functional Proteins in <i>Escherichia coli</i> ?
44	Kenny Armah, David Ramirez	Exploring <i>E. coli</i> Genome for New Short Open Reading Frames with Deletion of Proteases
129	Andrea Alvarado Avila	Audio Enhancement and Editing to Recognize in AI Generated Audio
102	Kai Bailey, Nihal Cha	Evaluation of STR Deconvolution in Mixed Samples Based on Ancestry
32	Ariana Baker	CRISPR, Equity, and Agriculture
37	Jeremy Balda	Measuring Stigma Toward Substance Use Disorder Clients among Mental Health Treatment Professionals
45	Abigail Barger, Hecti Howard, Kennedy Adams, Keren Enohnyaket	Viral Inhibition of Kaposi's Sarcoma Herpes Virus
46	Oluwadamipe Bob-Oseni, Shania Solivan-Garcia	Analysis of short open reading frame in <i>E. coli</i>
47	Amanda Bonetti	Examining the Potential of BECC 438 and 470 Adjuvants in the Development of Allergy Shots
33	Chloe Bourne	Design and Function of Brain-Computer Interfaces: A Comparative Analysis of Systems and Applications
130	Carl Brashears, Lauren Greene	Expanding Current Models in the Understanding and Teaching of Skeletal Muscle Physiology
48	Katrina Bucci	Engineering a Bispecific Antibody to Induce Cytotoxic T-cell Killing of Ovarian Cancer Cells
2	Lalyanna Bueno	Place of Delivery in a Hospital and Use of Modern Contraceptives in Guatemala

49	Maryam Bunni, Riley Stoneback, Gricelda Vigil, Jayden Young	ATR Inhibition in KSHV: Evaluating Cytotoxicity and Viral Genome Replication
3	Hannah Chang	The Effect of Hospital Accessibility on Infant Mortality Rates in Bangladesh
22	Jaylynn Coleman, Jaylynn Coleman, Giselle Berl, Xinia Coreas	Invisible Epigenetic Editing: Controlling Genes Without Changing DNA
50	Mark Couwenhoven	Observing the Effects of Adding BECC Derived Adjuvants to Allergy Immunotherapy
101	Shivam Dave, Avery Chandler	Imagine Your Could Extend Your Arms Out Longer to Finally Reach the Top Shelf at the Grocery Store: Flanking Nucleotides & Binding Affinity
103	Caraline Davis, Kailey van't Hoff	The Correlation Between Self-identified Ethnicity and Genetic Ancestry Proportion Markers in Second Generation European American and African American Populations using the MiSeq FGx Forensic Genomics System
51	Harper Davis	Prey Distance during Giant Asian Mantis (<i>Hierodula membranacea</i>) Prey Capture
52	Ashley DeLeon, Alex Dreyer	Analysis of Short Open Reading Frames in <i>Escherichia coli</i> : Are They Important?
131	Mia DeVito, Emma Riesett	Determining the Role of T44 on Alexphander gp50 Repressor Function
53	Kailey DeVore, Chase Listori	Effectiveness of CDK1 Inhibition on KSHV Lytic Activation
23	Noah Devan	Ethical Frameworks and Moral Legitimacy of Physician-Assisted Death
54	Fatima Diop, Jessie Goodman	Determining Protein Expression of sORFs in <i>E. coli</i>

132	Luxel Moliko Djouba, Amanda Liyaarachchi	De Novo Design of a Protein Binder for Citrus Red No. 2
55	Yvette Egbunine, Asia D. Trogdon	Molecular Cloning of RpaA as a Foundation for Studying Its Redox-Dependent Phosphorylation and Regulatory Mechanisms
56	Marwan Elhazgoune, Harita Patel	Analysis of Short Open Reading Frame yfjL*
104	Corinne Ertel, Bill Nwanja Arrey Tambe	Investigating the Binding Order of Alexphander Phage Transcriptional Repressor gp50 to DNA
57	Cat Evans, Naomi Omo-Taiga	Association of BHLHE40 Variants and Sleep Disorders with Cancer Risk Among Women
24	Jordan Ewing	Ethical Analysis of Anticipatory Ethics of Pre-Implantation Genetic Diagnosis
105	CJ Gaskill, Tyler Schapiro	DNA Binding of Homotypic Immunity Repressor gp50 is Affected by Sequence Length
133	Gabriella Gomez, Miracle Jiaba	Examining the Effect of a CDK-1 Inhibitor on KSHV Viral Replication
123	Antonio Gomez	AC (Tapping) Nanolithography
106	Ashley Gonzalez-Castro	Lineages & Legacies: Investigating Maternal Ancestry and Migration Patterns in Maryland
58	Ashley Gonzalez-Castro, Olapomi Olufemi	Analysis of sORF gcd_hpt_3 in the <i>E. coli</i> Genome
6	Abigail Graham	Wealth and Intimate Partner Violence against Women in Afghanistan
138	D'Angelo Gutierrez, Scott Bobbin, Hope Francois, Larryka Bara	Evaluating a CDK1 Inhibitor as a Treatment for KSHV in IBC3 Cells

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| 59 | Kristin Gyimah, Jasmine Calhoun, GianTripodi, Mckenzie Lanham | Observing the Effects of ATR Inhibition Using Varying Concentrations of Inhibitor on KSHV Viral Genome Replication |
| 60 | Olivia Harding, Divine Okereafor | Detection of Small Protein Expression from Short Open Reading Frames, <i>slyA_ydh1_0</i> and <i>kup_rbsD_0</i> , in <i>Escherichia coli</i> |
| 107 | Katelyn Harro, Laiba Azhar | Exploring Operator Site 2's Importance in Multinucleoprotein Formation |
| 108 | Mariam Hassan, Joice Adeogun | Investigating the Role of Lysine 47 in gp50-Mediated DNA Binding in Mycobacteriophage Alexphander |
| 109 | Amanda Hewitt, Abigail Thompson | Evaluation of the Differences in the Genetic Profiles and Phenotypic Predictions between Light and Dark Brown Eyes |
| 12 | Alex Holtzman | Educational Attainment and HIV Prevalence Among Women in Zimbabwe |
| 17 | Sabra Homera | Wedding Ring or Bachelor's Degree: Does Getting an Education Lower One's Chances of Getting Married? |
| 61 | Fiona Hutchison | Quantifying Subsampling Requirements for Reliable Grain Size Characterization of Marsh Sediments |
| 62 | Michaela St. John, Sami Emich, Ashley Van | Establishing the Evolutionary Relationship Between <i>Inia geoffrensis</i> and <i>Inia boliviensis</i> Using Phylogenomics |
| 10 | Leah Kebede | The Effect of Wealth Quintile on Marriage Age of Women in Ethiopia |
| 63 | Jackson Kendig, Payden Knollte Dimick, Corey Trumpower | The Effects of ATR inhibition on Viral Genome Expression in KSHV |
| 64 | Dajaha Kenney | From Soil to Cell: Sorghum's Antioxidant Odyssey |
| 110 | Muhammed Khan, Darlene Brown | Evaluating the Role of Residue 48 in gp50 DNA Binding and Lytic Regulation in AlexPhander |

128	Elise Lam	Empathetic Communication within the Choreographic Process
111	Anna Lazzari, Alyssa McDold	Investigation of Required Operator Regions in Alexphander's Lytic Promoter for Formation of gp50-DNA Binding Complex
21	Nathaniel Lazzati, Sabra Homera, Abiah Powell, Brandon Andrews	The Technical and Ethical Issues with Cobalt Mining for Clean Energy Technologies
65	Dylan Lissauer, Scott Bobbin	Analyzing the sORFs glmU_atpC_0 and galF_wcaM_0 in <i>E. coli</i>
134	Daniel Little	Assessing Genetic and Phenotypic Changes of Single Host Adapted La Crosse and Jamestown Canyon Viruses
66	Che' Suhyla Lee, Lara Haymes, Asia Herbert	Analysis of Small Protein Expression from the Short Open Reading Frame of fucA_fucP_1 and mltB_srlA_0
25	Taylor Gaston Love	Postmortem Fatherhood: Ethical and Anticipated Ethical Issues
19	Adam Magness	Anticipatory Ethical Frameworks for CRISPR Gene Editing: A Stakeholder-Based Analysis
135	Kendall Marx	Adaptive Curriculum Design for Coding Education
136	Kendall Marx	Personalized Learning in the Age of Artificial Intelligence: Beliefs, Student Outcomes, and Ethical Implications in K-12 Education
67	Ulysses Matricciani	Replication Kinetics of Jamestown Canyon Virus 2000 in <i>Aedes albopictus</i> C6/36 Cell Culture
68	Jonah Meyers	Addressing Closure in Acoustic Bird Surveys Using a Stacked Occupancy Model

20	Macayla Miles	Reproductive Innovation and Ethical Foresight: An Anticipatory Analysis of Uterus Transplantation and Artificial Wombs
112	Maryum Mirza, Daniella Gross	Investigating the Role of Positively Charged Residues in the gp50-DNA Binding Complex in Mycobacteriophage Alexphander
11	Chari Molley	The Effects of Intimate Partner Violence on HAZ in Malawi
69	Rosa Morales	Development of an Anti-transferrin Receptor Recombinant Immunotoxin Using a Stability-optimized Pseudomonas Exotoxin A Domain III
113	Ezekiel Morris, Cameron Clagett	R110 & R115 Role in Oligomerization to Tetramer Conformation in Alexphander gp50
70	Liana Mullican	Determining the Phosphorylation Status of Cyanobacterial Protein RpaB and its Effect on Photosynthesis
71	Emmalynn Mutombo	The Effect of Hydrologic Transport on Grain Size in Maryland Salt Marshes
72	Amara Njoku	The Influences of Light-induced Cellular Stress on the in vivo Oligomerization State of the RpaB protein in <i>Synechococcus</i> sp. PCC 7942 cyanobacteria
114	Lydene Noble, Mountoni Gnofam	Investigating the Roles of OR3 and OR4 with the Presence of a Point Mutation in a Mycobacteriophage?
73	Abigail Norr, Mariam Bah	Investigating The Impact of ATR Inhibition on Lytic Replication in Primary Effusion Lymphoma
34	Aidan O'Maille	Using AI and Machine Learning to Understand Epigenetic Factors in the Development of Autism Spectrum Disorder
74	Justin Obi, Wilki Sanchez	Determining the Oligomerization Status of Cyanobacterial Rrel and HIK2 under Different Redox Conditions

14	Chinenye Ofor	Educations Affect on Women's HIV Testing in Nigeria
7	Daniel Oloju	How Education Shapes Family Planning Decisions among Women In Nigeria
115	Christopher Palacios	Evaluation of PCR HRM, SNaPshot, and Next Generation Sequencing for Genotyping of Eye Color SNPs
26	Victoria Pappas	Vaccine Hesitancy and Decision Making: A Psychological and Ethical Analysis
75	Nima Paydar, Sicily Houk	Inhibition of RTA Ubiquitination Targets in the KSHV Life Cycle
137	Frederick Phillips, Zion Fitzgerald	Advances in the Understanding of the Epithelia: Role of the Glycocalyx
76	Frederick Phillips	Genetic Variation in the DRD3 gene and Susceptibility to Substance Use
77	Salecia Poles	Marsh Mud: Particle Size and Soil Composition in a Recovering Salt Marsh
27	Ella Portolese	Rethinking Solitary Confinement: Ethical Implications and Pathways to Legal Reform
28	Bia Powell	AI-Integration in Renewable Energy Technologies and Geo-Engineering: An Anticipatory Ethical Analysis of the Involved the Ethical and Technical Conflicts
35	Anthony Puleo	Genome Editing Strategies to Stabilize Alkaloid Output in <i>C. roseus</i> : Technical Efficacy and Systemic Risks
78	Havish Rekula, Emmalyn Mutombo, Fiona Hutchinson, Salecia Poles, Yonah Meyers, Evan Powers, Delaney Mezan	Sonication Variation: Standardizing Methodology and Ultrasonic Treatment of Sediments for Particle Size Analysis

116	Serena Richardson, Max Heath	Does This Even Matter: Altering the Central Sequence of gp50 OR3/OR4
79	Victor Rodgers, Ashley Deleon	Effects of CDK1 inhibitor on Viral Replication of KSHV
80	Victor Rodgers	Identification and Protease-Sensitive Characterization of Small Proteins in <i>E. coli</i>
15	David Romero, Jaelyn Simmons	Whole-Body Oxygen Consumption and Rate of Change in Tibialis Anterior Muscle Oxygen Saturation Across Walking Speeds: Preliminary Analysis of Baseline Control Data
18	Benjamin Rozencwaig	Nanoplastics, Dementia and Alzheimer's Disease: An Ethical and Anticipatory Ethical Analysis
29	Caroline Rozencwaig	Water Scarcity and Human Health: An Ethical and Anticipatory Ethical Analysis
81	Malia Salas	Fast Movement Capture of Strike Performance in Buddwing Mantis (<i>Parasphendale affinis</i>): Distance at Strike Initiation
36	Olanis Sanchez	Atryn and the Future of Biotech: Ai, Transgenic Animals, and Ethical Responsibility
82	Wilki Sanchez	Stressed <i>Synechococcus</i> : In-Vivo Phosphorylation of Hik 2
8	Ryan Shelly	The Impact of Women's Secondary Education on Fertility Rates in Madagascar
83	Dafenie Sherman	The Impact of Camouflage on Morphological Evolution in Mantises
9	Samyutha Sheshadri	Place of Delivery and Distance
16	Jaelyn Simmons, David Romero	Clinical Gait Analysis Using Electromyography
84	Madison Simms, Bernice Acheampong	Small Protein Expression by Short Open Reading Frames bdm_osmC_2 and asnC_asnA_0 in the <i>Escherichia coli</i> Genome

85	Phil Skaist	Anti-Cancer Effects of Fusidic Acid
86	Leslie Solis, Jocelyn Degeyter	Hidden In Plain Sight: Analysis of Short Open Reading Frames in the <i>E. coli</i> Genome
87	Kylie Sparks, Aspen Hirsch	The Relationship Between Inhibiting CDK1 and KSHV Replication
88	Chelsea Staab	Comparative Thermal Tolerance in Chinese (<i>Tenodera sinensis</i>) and Arizona Tan (<i>Stagmomantis gracilipes</i>) Mantises
89	La-Shawna Stegall	Beyond Pregnancy: New Implication of GDF-15 C211G Variant on Health
90	Kalys Stewart, Alexandrine Bassima	Analysis of Short Open Reading Frame <i>ompC_micF_3</i> and <i>yhhY_yhhZ_0</i>
91	Isabella Sturla, Allison Coyne, McKenzie Horne	Analyzing the Presence of IL-33 and IL-4 in the Lungs of Allergic Mice Treated with BECC Adjuvanted Allergen Specific Immunotherapy
92	Queen Tamakloe	You Got Asthma? Investigating BECC Adjuvants in Allergen Specific Immunotherapy (AIT)
93	Anayeli Galvan Tello	Orchid Mantis Prey Capture: Flies and Roaches
117	Jack Theys	Literature Review of DNA Analysis in Burned Bone for Forensic Decision-Making
124	Christopher Toomer, Kayode Adegbo	Investigation of the Reduction of SrTiO ₃ Substrates During Pulsed Laser Deposition of Metal Oxide Thin Films
125	Minh Tam Tran	Predicting the Trajectory of Multicellular Choanoflagellates using AI-driven Data Analysis
94	Asia Trogdon, Yvette Egbunine	Molecular Cloning of RpaA as a Foundation for Studying Its Redox-Dependent Phosphorylation and Regulatory Mechanisms

95	Corey Trumpower	Are You Outlier Blind?
127	Morgan Tucker	Women's Literacy in Mozambique
118	Naomi Uiyoshioria, Mariam Umar	The Increase Spacing of Operator Sites 3 and 4 and Their Effect on the Affinity of gp50
96	Riley Walker	Age is a Determinant of Tail Regeneration Rates in Axolotls
119	Diane Wasylkiw	Investigating Alcohol-Metabolism SNPs and Their Implication for Ancestry Inference Reliability
97	Diane Wasylkiw, Samreen Khalid	Analysis of sORFs for Potential Novel Protein Expression in <i>Escherichia coli</i>
98	Kiara Watson	Bridging the Gap: Enhancing Accessibility and Usability in Biomedical Data Platforms
99	Ny'Gia Williams	Regulation of Rre1 Phosphorylation Under Different Redox Conditions
126	Lakme Williams-Parida, Cris Varela, Kayode Adegbo, Peter Capan	Effects of Oxygen Deficiency on the Superconducting Properties of Yttrium Barium Copper Oxide Thin Films
100	Amani Witcher, Mustafa Abduljalil	Investigation of Short Open Reading Frames in <i>Escherichia coli</i> : Characterizing glpF and yeeJ
120	Amie Yansane	Alexphander's Gene 50 Is a Molecular Determinant of Prophage Mediated Protection
38	Megan Yelinek, Kyra Adams, Emary Senisi	Reconsolidation Disruption Effects on Free Recall of Emotional Memory
