

Poster sess #	Time	Wall#	Student Name	GY	Title	Advisor
1	1:45 - 3:00 PM	1	Wendy Memishian	'19	The Effect of Hypoxia on Ventilation in Embryonic Coturnix Quail	Ryan Bavis, Biology
1	1:45 - 3:00 PM	2	Isabella Del Priore	'19	Analysis of MHC Class II Alpha and Beta Gene Lineages and Heterodimer Assembly in Leach's Storm-Petrel, <i>Oceanodroma leucorhoa</i>	Don Dearborn, Biology
1	1:45 - 3:00 PM	3	Sara Buscher	'19	Examining the Diagnosis, Care Pathway, and Clinical Characteristics of Pediatric Familial Hypercholesterolemia (FH) Patients	Heidi Taylor, Sociology
1	1:45 - 3:00 PM	4	Emma Futamura	'19	Categorization in Scientific Knowledge: An Analysis of Paradigms in Anterior Cruciate Ligament Research	Glen Lawson, Chemistry and Biochemistry
1	1:45 - 3:00 PM	5	Brandon Galloway	'19	The Purification and Expression of E3 Ubiquitin Protein Ligase from Clone Genes	Glen Lawson, Chemistry and Biochemistry
1	1:45 - 3:00 PM	6	Maddy LeClair	'19	Mono-ubiquitination of 3C Protease in Encephalomyocarditis Virus	Glen Lawson, Chemistry and Biochemistry
1	1:45 - 3:00 PM	7	Amy Turtz	'19	Processing Methods of Lead-free Titanate Perovskites	Geneva Laurita, Chemistry and Biochemistry
1	1:45 - 3:00 PM	8	Reed Feldman	'19	Nationality and Social Networks	Carrie Diaz Eaton, Digital and Computational Studies
1	1:45 - 3:00 PM	9	Nick Lynch	'19	Explaining the Global Interest Rate Decline	Julieta Yung, Economics
1	1:45 - 3:00 PM	10	Andrew Mikula	'19	The Effect of State Environmental Regulations on Housing Production	Michael Murray, Economics
1	1:45 - 3:00 PM	11	Niamh Micklewhite	'19	The Hydraulic Architecture of Cycads: A Three-Dimensional Analysis of Vascular Networks	Brett Huggett, Biology
1	1:45 - 3:00 PM	12	Dylan Gyauch-Lewis	'21	A Sharper Image: The Role of Obsidian in Pre-Columbian Mesoamerican Society	Gerald Bigelow, History

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1	1:45 - 3:00 PM	13	Shelbie McCormack	'19	Troy: A Mirrored City and a Culture Not Forgotten	Laurie O'Higgins, Classical and Medieval Studies
1	1:45 - 3:00 PM	14	Jenna Powell	'19	<i>Dike</i> in Hesiod's <i>Theogony</i> and <i>Works and Days</i>	Laurie O'Higgins, Classical and Medieval Studies
1	1:45 - 3:00 PM	15	Moise Bonheur	'19	Spatial Patterns of Gene Expression in the Mitral Cell Layer of the Main Olfactory Bulb	Jason Castro, Neuroscience
1	1:45 - 3:00 PM	16	Amanda Engelbrekt	'19	Investigating Development and Sexual Dimorphism of Accessory Olfactory Bulb Microcircuits in C57/B16 Mice	Jason Castro, Neuroscience
1	1:45 - 3:00 PM	17	Eric Jordan	'19	Loci of Synaptic Plasticity in Accessory Olfactory Bulb Circuits	Jason Castro, Neuroscience
1	1:45 - 3:00 PM	18	Anas Reda	'20	Anp32E Regulates H2A.Z Eviction and Memory Formation in the Hippocampus	Andrew Kennedy, Chemistry and Biochemistry
1	1:45 - 3:00 PM	19	Hannah Smith	'19	Reducing TET2 in the CA1 of the Hippocampus Enhances Spatial Memory	Andrew Kennedy, Chemistry and Biochemistry
1	1:45 - 3:00 PM	20	Kristine Zengeler	'19	Reducing TET2 in the CA1 of the Hippocampus Enhances Spatial Memory	Andrew Kennedy, Chemistry and Biochemistry
1	1:45 - 3:00 PM	21	Rebecca Minsley	'21	Galaxy Data Modeling in 3D: Studying Outflowing Gas Using MaNGA Data	Aleks Diamond-Stanic, Physics and Astronomy
1	1:45 - 3:00 PM	22	Alexis Hudes	'20	Chromatin Distribution in Sorted HL-60/S4 Cells	Travis Gould, Physics and Astronomy
1	1:45 - 3:00 PM	23	Victor Fitzek	'19	Observing Large-scale Quantum Behavior Using an Optical Lattice to Trap Ultracold Atoms	Nathan Lundblad, Physics and Astronomy
1	1:45 - 3:00 PM	24	Alexander Jiang	'21	Modeling Bose-Einstein Condensates Confined by Atom-chip Magnetic Traps	Nathan Lundblad, Physics and Astronomy

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1	1:45 - 3:00 PM	25	Joanna Schafer	'19	The Effectiveness of Sexual Education in Maine: A Comparative Study of State-Regulated Sexual Education Courses	Melinda Plastas, History
1	1:45 - 3:00 PM	26	Anna Setzer	'19	Reimagining Citizenship in the Era of Climate Change	James Richter, Politics
1	1:45 - 3:00 PM	27	Katie Weidmann	'19	Internet Communities as Minority Stress Reduction Tools for LGB People	Joshua Goodman, Psychology
1	1:45 - 3:00 PM	28	Coy Candelario	'19	Identifying Latino Authenticity	Alex Borgella, Psychology
1	1:45 - 3:00 PM	29	Edward James	'19	The Context of Juuling on a College Campus	Rebecca Fraser-Thill, Psychology
1	1:45 - 3:00 PM	30	Felicia Page	'19	Effects of Female Identity Salience on Athletic Performance	Su Langdon, Psychology
2	3:15 - 4:30 PM	1	Sarah Gutch	'19	Ventilatory Acclimatization to Hypoxia in Adults Rats	Ryan Bavis, Biology
2	3:15 - 4:30 PM	2	Michaela Pinette	'19	The Effect of Chronic Hyperoxia on Somatic Growth and Thermoregulation	Ryan Bavis, Biology
2	3:15 - 4:30 PM	3	Mary Buford Turnage	'19	Measuring Hypoxic and Hypercapnic Ventilatory Responses in <i>Anolis carolinensis</i>	Ryan Bavis, Biology
2	3:15 - 4:30 PM	4	Ross Ackerman	'19	Evolution of Immune Response: A Taxonomic Analysis of Intestinal Parasites in the Leach's Storm-Petrel (<i>Oceanodroma leucorhoa</i>)	Don Dearborn, Biology
2	3:15 - 4:30 PM	5	Jacqueline Buonfiglio	'19	Exploring the Use of Fecal Egg Floatation Methodology to Identify Avian Gastrointestinal Parasites	Don Dearborn, Biology
2	3:15 - 4:30 PM	6	Sophie Warren	'19	Nobody Puts IIA in a Corner: A Literature Analysis of the Neglected Half of the MHC Class II Heterodimer	Don Dearborn, Biology

Poster sess #	Time	Wall#	Student Name	GY	Title	Advisor
2	3:15 - 4:30 PM	7	Emily Gibson	'19	Taking the Lead on Lead Poisoning: Identifying Culturally Competent Initiatives to Increase Awareness of this Pervasive Toxin	Karen Palin, Biology
2	3:15 - 4:30 PM	8	Ken Hale	'19	Amplifying Zebrafish (<i>Danio rerio</i>) <i>alas2</i> Gene to Evaluate Its Role in Hypochromic <i>Nfe2</i> Knockout Embryos	Larissa Williams, Biology
2	3:15 - 4:30 PM	9	Hadley Moreau	'19	Role of Nrf2a and Nfe2 in Modulating MEHP-induced Hepatosteatosis following Embryonic Exposure in <i>Danio rerio</i>	Larissa Williams, Biology
2	3:15 - 4:30 PM	10	Emma Gomez-Rivas	'19	The Synthesis of <i>Linderofruticoside A</i>	Jennifer Koviach-Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	11	Owen Lewis	'19	Establishing the Structural Limitations of Fatty Acid Incorporation by Lipid Auxotrophic <i>Corynebacteria</i> with Potential for Petrolytic Bioremediation	Colleen O'Loughlin, Chemistry and Biochemistry
2	3:15 - 4:30 PM	12	Brendan Mackey	'19	Linking Terpenes and the Microbiome: A Novel Mode of Therapeutic Intervention	Colleen O'Loughlin, Chemistry and Biochemistry
2	3:15 - 4:30 PM	13	Tess Miller	'19	Investigation of the <i>pzn</i> Gene Cluster and Its Role in <i>Staphylococcus epidermidis</i>	Colleen O'Loughlin, Chemistry and Biochemistry
2	3:15 - 4:30 PM	14	Nate Frederick	'19	Development of Novel Tissue-type Plasminogen Activator-binding RNA Aptamer	Paula Schlax, Chemistry and Biochemistry
2	3:15 - 4:30 PM	15	James Lee	'19	RNA Binding Proteins as Regulators of Gene Expression in <i>Borrelia burgdorferi</i>	Paula Schlax, Chemistry and Biochemistry
2	3:15 - 4:30 PM	16	Gabriella Shpilsky	'19	Purification, Characterization, and Activity of Ribonucleases on mRNA Degradation in <i>Borrelia burgdorferi</i>	Paula Schlax, Chemistry and Biochemistry
2	3:15 - 4:30 PM	17	Xiaomeng Wang	'19	Intracellular Localization of RNA and Protein in <i>B. burgdorferi</i>	Paula Schlax, Chemistry and Biochemistry
2	3:15 - 4:30 PM	18	JR Watanasiri	'19	Characterizing the Localization of <i>dsrA</i> Variants in <i>Borrelia burgdorferi</i>	Paula Schlax, Chemistry and Biochemistry

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2	3:15 - 4:30 PM	19	Hugh Gorman	'19	Plasmon Enhanced Nonlinear Optical Harmonic Generation	Matthew Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	20	Ian Wax	'19	Spatial Filtering and Plasmon Enhanced Nonlinear Optical Generation in Gold Microplates	Matthew Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	21	Sebastian Gallegos	'19	The Synthesis of GalNAc for O-Mannosylated Glycans	Jennifer Koviach-Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	22	Seamus Kelley	'19	NMR Determination of the Preferred Conformation of Tetrahydro-2H-pyran-2,3,4,5-tetraol	Jennifer Koviach-Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	23	Cara Starnbach	'19	The Synthesis of Luteoside B as a Potential Therapeutic for Respiratory Syncytial Virus (RSV)	Jennifer Koviach-Cote, Chemistry and Biochemistry
2	3:15 - 4:30 PM	24	Katie Barker	'19	Analysis of the Origins of Ferroelectricity in Substituted Perovskites Using Neutron and X-ray Total Scattering Techniques	Geneva Laurita, Chemistry and Biochemistry
2	3:15 - 4:30 PM	25	Robyn Moss	'20	Independent Research Study of Hollandite and Honeycomb Crystal Structures for Cathode Oxide Materials	Geneva Laurita, Chemistry and Biochemistry
2	3:15 - 4:30 PM	26	Jason Ross	'19	Synthesis and Characterization of Ho-Substituted Bismuth Pyrochlores	Geneva Laurita, Chemistry and Biochemistry
2	3:15 - 4:30 PM	27	Dayna Vasconcelos	'19	Effects of Videotaped Eyewitness Identifications on Eyewitnesses and Jurors	Amy Douglass, Psychology
2	3:15 - 4:30 PM	28	Claudia Glickman	'19	An Analysis of Intercultural Depictions in German Children's Literature	Raluca Cernahoschi, German
2	3:15 - 4:30 PM	29	Hawley Moore	'19	Like Night and Day? Determinants of Fine Art Auction Prices in Afternoon and Evening Sales	Nathan Tefft, Economics
2	3:15 - 4:30 PM	30	Stephen Bull	'19	56 Surf Street: Sea Level Rise, Flood Risk, and Property Values	Lynne Lewis, Economics

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2	3:15 - 4:30 PM	31	Lucy Faust	'19	The Real Price to Pay for Waterfront Property: The Impact of Flood Zones and Spatial Proximity to Water on Property Prices in York County, ME	Lynne Lewis, Economics
2	3:15 - 4:30 PM	32	Tala Kasih	'19	Household Water Consumption: Drought and Revenue Instability	Lynne Lewis, Economics
3	4:45 - 6 PM	1	Emma Christman	'22	Effects of Antibiotic Treatment on <i>A. forbesi</i> , <i>A. vulgaris</i> Infected with Sea Star Wasting Disease	Katie Dobkowski, Biology
3	4:45 - 6 PM	2	Grace Link	'19	Uncovering the Genetic Components of Early Animal Sensory Systems: Putative Sensory Gene Expression after Knockout of Primary Cilia Function in Freshwater Sponges	April Hill, Biology
3	4:45 - 6 PM	3	Michael Cooper	'20	Exploring the Possibility of Liquid Separation in the Ste. Dorothée Sill near Montréal, Quebec	Genevieve Robert, Geology
3	4:45 - 6 PM	4	Craig Waldie	'19	An Evolutionary Algorithmic Approach to World Trade Theory	Raj Saha, Geology and Physics
3	4:45 - 6 PM	5	Samuel Kroger	'19	The Fourier Transform and Financial Information	Katy Ott, Mathematics
3	4:45 - 6 PM	6	Xavier Hayden	'19	Markov Chain Monte Carlo Simulation in Cryptography	Adriana Salerno, Mathematics
3	4:45 - 6 PM	7	Sara Hollenberg	'19	Contemporary Applications of Common Cryptosystems	Adriana Salerno, Mathematics
3	4:45 - 6 PM	8	Sarah Lamie	'19	How Bates Students are Thinking about Variables in a Calculus Context	Adriana Salerno, Mathematics
3	4:45 - 6 PM	9	Isabella Barrengos	'19	Spirit Possession, Mediation, and Ambiguity in the Ancient Greek Worship of Dionysos	Loring Danforth, Anthropology
3	4:45 - 6 PM	10	Ned Moreland	'19	An Assessment of Current Japanese Government Policy's Support of Small- and Medium-Sized Enterprise Growth in the Japanese Economy	Jiyoung Ko, Politics

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3	4:45 - 6 PM	11	Andrew Chen	'19	Investigating Global and Local Functional Heterogeneity in the Mouse Olfactory Bulb	Jason Castro, Neuroscience
3	4:45 - 6 PM	12	Nicholas Coker	'19	Quantification and Analysis of Molecular Heterogeneity of the Mitral Cell Layer in the Mouse Olfactory Bulb	Jason Castro, Neuroscience
3	4:45 - 6 PM	13	Wanyi Lu	'19	Depth of Processing of Visual Scenes Not Consciously Perceived	Michelle Greene, Neuroscience
3	4:45 - 6 PM	14	Jamie Siegart	'21	Testing the Role of Recurrent Processing in Human Image Understanding	Michelle Greene, Neuroscience
3	4:45 - 6 PM	15	Priyanka Takle	'19	The Role of Scene Function in Visual Scene Categorization	Michelle Greene, Neuroscience
3	4:45 - 6 PM	16	Adelae Durand	'19	Endogenous Brain-derived Neurotrophin Factor and Its Relationship to Cognitive and Affective Flexibility	Nancy Koven, Neuroscience
3	4:45 - 6 PM	17	Kathryn Cleary	'19	Expression Analysis of Phosphoinositide Transfer Proteins in Human Embryonic Kidney Cells	Martin Kruse, Biology and Neuroscience
3	4:45 - 6 PM	18	Zach Collester	'19	Regulation of Intracellular Ca ²⁺ Signaling by Inositol 1,4,5-trisphosphate Receptor-binding Protein Released with Inositol 1,4,5-trisphosphate (IRBIT)	Martin Kruse, Biology and Neuroscience
3	4:45 - 6 PM	19	Jillian Sheltra	'19	Visualizing the Role of Phosphatidylinositol Transfer Protein Alpha in Lipid Transfer following Genetic Manipulation	Martin Kruse, Biology and Neuroscience
3	4:45 - 6 PM	20	Reilly Murphy	'19	Who Is Using Self-Disparaging Weight Humor: Overweight, Low Self-Esteem, or Both?	Alex Borgella, Psychology
3	4:45 - 6 PM	21	Sanah Hasan	'19	Effects of Ego-Depletion on Controlled Responses during the Shooter Bias Game	Helen Boucher, Psychology
3	4:45 - 6 PM	22	Carlyle Turner	'19	The Influence of Videorecording Eyewitnesses on the Relationship between Confidence and Accuracy in Lineup Identifications	Amy Douglass, Psychology

Poster sess #	Time	Wall#	Student Name	GY	Title	Advisor
3	4:45 - 6 PM	23	Emily Bowen	'19	Gender Differences in Levels of Satisfaction with Online and Offline Relationships	Rebecca Fraser-Thill, Psychology
3	4:45 - 6 PM	24	Michael Driscal	'19	Creating an Online Intervention that Utilizes Psychological Distance for LGB - People of Color	Joshua Goodman, Psychology
3	4:45 - 6 PM	25	Alexa Harrison	'19	Temporal Negative Priming: Visual and Auditory	Todd Kahan, Psychology
3	4:45 - 6 PM	26	Hanchen Zhang	'19	SNARC Effect, Spatial Annotation, and Spatial Attention Constraint	Todd Kahan, Psychology
3	4:45 - 6 PM	27	Christian Welch	'19	Inhibiting Working Memory through Tongue Twisters	Kathy Mathis, Psychology
3	4:45 - 6 PM	28	Ceria Kurtz	'19	Implicit Bias Awareness in the First Person Shooter Task	Michael Sargent, Psychology
3	4:45 - 6 PM	29	Jose Ruiz	'19	Studying Fast Outflows from Extreme Galaxies at High Resolution	Aleks Diamond-Stanic, Physics and Astronomy
3	4:45 - 6 PM	30	Cristopher Thompson	'19	Accurately Measuring the Radius of Galaxies with the Hubble Space Telescope	Aleks Diamond-Stanic, Physics and Astronomy
3	4:45 - 6 PM	31	King Valdez	'19	Stellar Mass as a Function of Age and Dust in 12 Compact Starburst Galaxies with High Outflow Speeds	Aleks Diamond-Stanic, Physics and Astronomy
3	4:45 - 6 PM	32	Owen Ahlborn	'19	Analysis of Harmonics Produced through Electric Vehicle Charging	John Smedley, Physics and Astronomy