

# PROGRAM

*Welcome Remarks at 3 pm – Linda Hyman, MBL Director of Education*

<b>Student</b>	<b>Institution</b>	<b>Mentor</b>	<b>Abstract Title</b>
Israa Alchaar	Bridgewater State University	Louie Kerr	A Glance into Confocal Microscopy
Marina Benson	Brown University	Javier Lloret	Effects of Eutrophication on Local Estuaries Revealed by the effects of Food Webs and Stable Isotopes
Samantha Borruso	Providence College	Jack Costello	Size and Velocity of Swimmers
Ross Brown	University of Virginia	Zoe Cardon	Effects of Salinity on Biomass Allocation and Photosynthesis in <i>Sporobolus alterniflorus</i>
Lori Campbell	Wellesley College	André Fenton	Unveiling the Enigma of Memory in the Hippocampus through Behavioral Analysis
Eva Castagna	Williams College	Roger Hanlon	Quantifying cuttlefish camouflage consistency
Olivia Cheung	University of Chicago	Loretta Roberson	Increasing Water Temperatures Can Affect the Physiological Performance of Tropical Seaweed
Reece Ciampitti	Boston University	Javier Lloret	Effects of 50-year long experimental nitrogen Additions on salt marsh vegetation and platform Elevation
Isabella Cisneros	University of Chicago	Nipam Patel	Honey, I shrunk my abdomen!: Cell death Visualization during embryogenesis in amphipod Crustaceans
Scout Crooke	Haverford College	Josh Rosenthal	Electroporation of Fluorescent Molecules and RNA into <i>Doryteuthis pealeii</i> Neurons
Kaeryel Dowl	Univ. of Louisiana At Lafayette	Herbert Leavitt/ James Nelson	Investigating Population Density and Sex Ratio of <i>Carcinus maenus</i> across Plum Island Estuary
Gia Fisher	University of Chicago	Jennifer Morgan	$\alpha$ -Synuclein Alters the Morphology of Synaptic Mitochondria in Giant Axons of Sea Lamprey
Kai Galvan-Dubois	Cornell University	David Mark Welch	Investigating the Optimal Conditions for Net Carbon Sequestration by <i>Synechococcus</i>
Jingkai Hou	University of Chicago	David Mark Welch	Developing high-throughput expression systems for bdelloid proteins

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Cassandra Manrique	University of Chicago	Carrie Albertin	Cephalopods into cells: Developing marine invertebrate cell culture
Alyvia Martinez	Albion College	Allen Mensinger	Freeze Dance! The Auditory Sensitivity of Elasmobranchs within the Egg Case
Feodor Morozov	Lexington High School	Irina Arkhipova	Optimization of recombinant transposon-derived protein production with pET system in E. coli
Kellie Navarro	Bowdoin College	Loretta Roberson	Ice, Ice Baby: Physiological Mechanisms Underlying Cold Temperature Stress Responses in the Northern Star Coral
Natalie O'Hern	Wellesley College	Ken Foreman	Septic, Sewers, and Systems Thinking: A Story of the Remediation and Recovery of Little Pond
Prakhar Pandey	Rutgers University	Abhishek Kumar	Visualizing C. elegans embryonic development using lightsheet microscopy
Daniel Pugatch	UMass Amherst	Irina Arkhipova	Development of Optimal Conditions to Produce Soluble Recombinant Proteins from Aquatic Animals for Functional Assays
Christian Selden	Reed College	Karen Echeverri	LRRK2 is Necessary for Faithful Spinal Cord Regeneration in Axolotls
Louise Siskel	University of Chicago	Josh Rosenthal	Mutagenesis screen of ADAR2 residue E488 for more efficient and specific Site-Directed RNA Editing
Drew Smith	Eckerd College	Christopher Hunt Peter Raymond	Large addition of alkalinity in the Rowley River Estuary
Kluyvert Suquino	University of Chicago	Maureen Conte	Does the lipid biomarker composition of deep ocean surface sediments reflect the seasonality in the overlying particle flux?
Alejandra Tapia Batres	Georgia State Univ.	Loretta Roberson	"It's getting hot in here": Understanding the mechanisms of calcification in the coral <i>Astrangia poculata</i> and its responses to heat stress
Emma Vequist	Univ. of the Incarnate Word	Veronica Acosta	Making the Cut: An Analysis of Regeneration in <i>Lumbriculus variegatus</i>
Louisa Wang	University of Chicago	Scott Brady	The Addition of His-PTB Proteins with Amyloid Precursor Protein Intracellular Domain (AICD) on Axonal Transport

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Kaitlin Webster	Santa Clara Univ.	Elizabeth Jonas	Mutant Mitochondrial Proteins: Affecting Mouse Energy and Behavior
Nicolas Zerda	University of Chicago	William Greene	Golgi Satellites and the search for Local Neuronal Protein Modification Machinery
Elaine Zhou	Roger Hanlon	Roger Hanlon	Mechanical 3D shape discrimination by octopus arms suckers