College of Arts and Sciences
Westbrook College of Health Professions

September 23, 2023

Saturday, September 23, 2023 | 9–11 a.m.

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9–11 a.m. |

10:30 a.m. |

2023

63. Goat Island Alternative Energy Project

Student Author(s) Cameron Indeck ’22 | , .D. ***Faculty Advisor(s)***

Abstract

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Funded by

1. Novel Cultivation Technique for a Common Species: Sea Lettuce *(Ulva lactuca)*

Sophia Tearman ’25 | *C B , .D.*

2. Using In Vivo Tagged RNA to Examine Autophagic Degradation of RNA Decay Fragments

Dez Schrankel ’24 | *G , .D.*

3. The Effects of Vegetation Dieback Areas on New England Salt Marsh Vegetation

Caroline Fales '25 | , .D., , .D.

4. Impact of Prophylactic Ceftriaxone on Antimicrobial Resistance in Out-of-Hospital Cardiac Arrest Patients

Cailyn Wheeler '25 | B , .D.

7. Visualizing Elastin-Like-Polymer Behavior with Atomic Force Microscopy

Ben Wheeler ’24 | *E B , .D.,* , *.D.*

8. Effects of Early Life Pain on Amygdalar CRF Expression in Developing Rodents

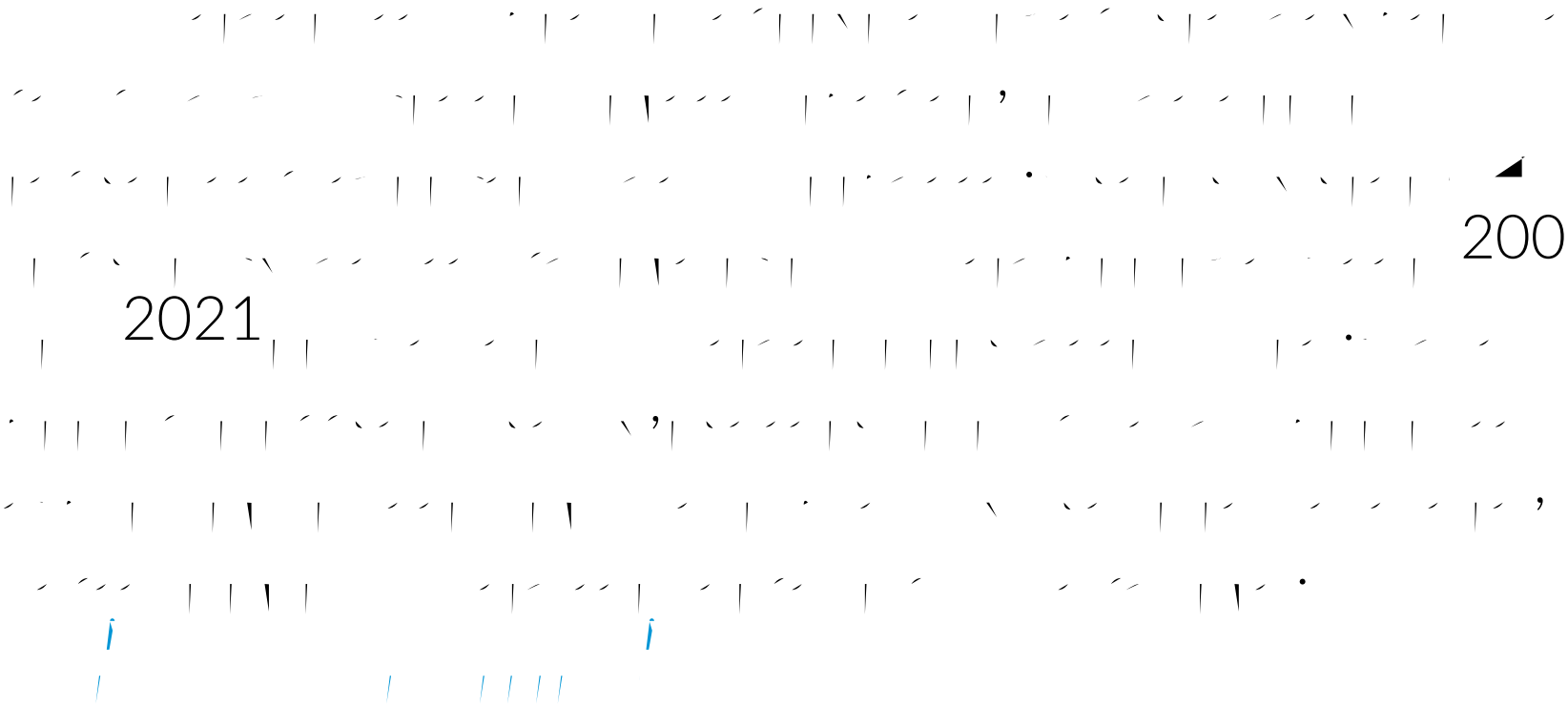
Brooklynn Merrill ’25, Megan Tomasch ’25 |
B , .D., *, B. .*

9. Establishing Pre-restoration Sites of *Agalinis maritima* on the Biddeford Pool Salt Marsh

Sam Walsh ’24 | , .*D*.

10. The Growth of Mega Pool Systems in 12 Maine Salt Marshes From 2009 to 2021

Katelyn DeWater ’25 | , .*D*.



11. Effect of Antimicrobial Peptides on Antibiotic-Mediated Killing of Bacterial Biofilms

Anjanadevi Govindaraj ’24, Alya Theriault ’24 | *B* , *.D.*

12. Thermal Tolerance and Temperature Thresholds in Jonah Crabs

Anna Sinclair ’24 | *F* , *.D.*

13. Comparison of Bone Density in College Male and Female Ice Hockey Players Throughout a Season

Sarah Collins '24 | , .D., . . .

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14. Postural Effects on Power

15. Using eDNA as a Tool to Monitor Biodiversity

Josephine Pikowski '26 | *E* . , . ., *C*
, .*D*., *B* , *F* , .*D*.

PRES

19. Assessing the Efficiency of a Microprocessor-based Bycatch Reduction Device on the Atlantic Spiny Dogfish *(Squalus acanthias)* in Recreational Fisheries

Clayton Nyiri '25 | , .D., D. , . .,
, . ., B , .D., B , .D.,
G , .D., , .D., B D , .D.

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23. Microplastic Contamination and Tissue Distribution in Atlantic Sea Scallops

Amber-Rae Pesek '24 | *B* , *.D.*

24. Antimicrobial Compounds in Reproductive Parts of the Seaweed *Fucus vesiculosus* and Their Effectiveness Against Human Pathogens

Claire Dyer '26 | , *.D.*

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25. Observing Mitochondrial Dysfunction in *Saccharomyces cerevisiae*

Abigail Blouch ’24 | *G , .D.*

26. Phase Behavior of Multi-Stimuli Responsive Biopolymers

Peter Swanson ’24, Ben Wheeler ’24 | *E B , .D.*

27. Oxidation Reactions with Dicopper Catalysts in Hydrogen Peroxide Solution

Will DeFroscia ’24 | *F* , *.D.*

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28. Epigenetic Changes in DNA Methylation are Involved in the Lasting changes in Pain Sensitivity Following Neonatal Intensive Care Unit (NICU)-like Treatment in Rats

Aidan J.G. Fox ’24, Emma Naess ’24, Megan Tomasch ’25 |
B , *.D.*, , *B.* .

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THANK YOU

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