11th Annual

FALL FRONTIERS

UNDERGRADUATE RESEARCH POSTER EXHIBITION

October 18, 2023

5:00 - 7:00 p.m.

Wilbur Cross North Reading Room

Sponsored by the

University of Connecticut

Office of Undergraduate Research

Enrichment Programs

About Frontiers in Undergraduate Research

The Fall Frontiers Poster Exhibition is a multidisciplinary research forum showcasing undergraduate research, scholarship, and creative projects at the University of Connecticut. Fall Frontiers complements the longstanding spring Frontiers exhibition, providing an additional opportunity for UConn's student researchers to share their exciting work.

This is the eleventh fall event sponsored by the Office of Undergraduate Research (OUR). This year's exhibition includes 90 students presenting posters for 75 research and creative projects.

Students' projects span the disciplines and include both independent research and work pursued in collaboration with other undergraduates. The projects presented reflect the invaluable contributions of research mentors, including graduate students, postdoctoral scholars, staff, and faculty members. We hope you enjoy meeting our wonderful students and learning about their innovative projects.

About the Office of Undergraduate Research

The Office of Undergraduate Research is a resource for students interested in enriching their undergraduate experience through participation in research, scholarship, and creative activity. The OUR provides information and advising to assist students in identifying relevant opportunities, as well as several funding programs to support the students and their faculty mentors.

Many of the Fall Frontiers presenters have received financial support for their projects from the OUR, which awarded over $640,000 in 2022-23 in support of students' research and creative endeavors. These awards are funded by the Office of Undergraduate Research with generous support from the Office of the Provost, the Office of the Vice President for Research, the Deans of the schools and colleges, and private donations from alumni, parents, and other friends of UConn and undergraduate research.

11th Annual Fall Frontiers Poster Exhibition

Poster Exhibition

Wednesday, October 18, 2023
5:00 p.m. – 7:00 p.m.

Speaking Program

5:30 p.m.

Welcome and Introductions

Micah Heumann
Director, Office of Undergraduate Research

Keynote Speaker

Lindsay DiStefano
Associate Vice President for Research Development and Professor, Department of Kinesiology

Closing Remarks

Caroline McGuire
Executive Director, Enrichment Programs

Sequential Listing of Poster Presentations

This listing of projects includes the undergraduate student authors and their faculty mentors. Please note that this is not a comprehensive listing of mentors: many projects also reflect the contributions and mentorship of dedicated graduate students, post-doctoral scholars, and research staff members. An alphabetical listing of presenters is included at the end of the program.

1. The Mansfield Training School Project
Ally LeMaster, Journalism & English
Lillian Stockford, History
Ashten Vassar, Psychological Sciences & Human Rights
Madison Bigelow, English
Advisor: Brenda Brueggemann, Professor, English

2. Reading in Talking Books
Kanny Salike, Linguistics/Philosophy
Advisor: Sam Sommers, Assistant Professor in Residence, English

3. Space and People in Accessing Food Pantries: A Mixed-Method Study of Hartford, CT
Timothy Yanchak, Anthropology & Geographic Information Science
Advisor: Peter Chen, Assistant Professor, Geography

4. Immigrant or Migrant? Puerto Rican Migration During the 1950s
Benjamin Pitruzzello, History
Advisor: Fiona Vernal, Associate Professor, History & Africana Studies

5. Puerto Rican Traditions of Civic and Political Engagement in Hartford, Connecticut
Rémi Dupuis, Anthropology
Advisor: Fiona Vernal, Associate Professor, History & Africana Studies

6. DeSantis Policies' Effects on Latino Community in Orlando, Florida
Annabel De La Cruz, History
Advisor: Melisa Argañaraz Gomez, Assistant Professor in Residence, Urban and Community Studies

7. Between Human Rights and Neoliberalism: The UN's Balancing Act
Christina Clouser, Political Science
Advisor: Zehra Arat, Professor, Political Science

8. Understanding Barriers to Healthcare that Foreign-Born Brazilian Women Experience in Bridgeport, CT
Victoria Marina Pigoretti, Allied Health Sciences
Advisor: Fumilayo Showers, Assistant Professor, Sociology

9. Transitional Justice and the Rule of Law
Matthew Koleszar, Political Science & Economics
Advisor: Christopher Shay, Post-Doctoral Research Fellow, T.H. Chan School of Public Health, Harvard University

10. Tracking Armed Conflict in Myanmar
Nishi Kapoor, Political Science & Human Rights
Sophie Lemire, Economics & Human Rights
Advisor: Michael Rubin, Assistant Research Professor, Human Rights

11. Emotional Well-Being Among Children With Specific Learning Disabilities
Arta Berisha, Physiology and Neurobiology
Advisor: Fumiko Hoeft, Professor, Psychological Sciences
Advisor: Caroline Richter, Assistant Professor, Department of Psychology, University of Alabama at Birmingham
Advisor: Jacqueline Chen, Associate Professor, Psychology, University of Utah

12. Novel Virtual Reality Intervention Reduces E-Cigarette Dependence and Cravings in Undergraduate Students
Linnea Budge, Physiology and Neurobiology
Advisor: Robert Astur, Associate Professor, Psychological Sciences

13. Examining the Effects of a Dual Joystick Operated Ride-On Toy Training on Bimanual Coordination of Arms in Children with Hemiplegic Cerebral Palsy
Aarthi Tippireddy, Physiology and Neurobiology & Sociology
Emily Tully, Biological Sciences
Advisor: Sudha Srinivasan, Assistant Professor, Kinesiology

14. Public Perception of Gender-Based Violence as Torture: A Survey Experiment
Alexandra Kapell, Human Rights & Political Science
Advisor: David Richards, Associate Professor, Political Science & Human Rights

15. Associations Among Maternal PTSS, Positive and Involved Parenting, and Child Externalizing Behavior
Ethel Dvoskin, Psychological Sciences & Human Development and Family Sciences
Advisor: Carolyn Greene, Associate Professor, Psychiatry

16. Professional Futures for Women's, Gender, and Sexuality Studies Majors and Minors
Morgan Keating, Psychological Sciences & Women's, Gender, and Sexuality Studies
Kate Wagner, Political Science
Advisor: Ariana Codr, Assistant Professor in Residence, Women's, Gender, and Sexuality Studies

17. Analyzing the Home Environments of People with Aphasia: Does Treatment Generalize Into Life at Home?
Allison Shane, Speech, Language, and Hearing Sciences
Advisor: Jennifer Mozeiko, Associate Professor, Speech, Language, and Hearing Sciences

18. Unlocking the Power of Context: Learning Hard Nouns From Observation
Kosta Boskovic, Cognitive Science
Advisor: Sumarga Suanda, Assistant Professor, Psychological Sciences

19. A Single Gene Association Study for Dyslexia: Expanding Our Understanding of the Relationship Between NRSN1 and Reading Disorders
Rhea Koyambreth, Psychological Sciences & Physiology and Neurobiology
Advisor: Nicole Landi, Professor, Psychological Sciences

20. Late-Life Depression and Markers of Immunosenescence
Medha Illindala, Physiology and Neurobiology
Advisor: Breno Diniz, Associate Professor, Psychiatry

21. Modeling Encephalomyosyangiosis After an Ischemic Stroke
Vraj Patel, Physiology and Neurobiology
Advisor: Rajkumar Verma, Assistant Professor, Neuroscience

22. Understanding the Role of Minor Intron Splicing in Spermatogenesis
Jade Rosado, Molecular and Cell Biology
Advisor: Rahul Kanadia, Associate Professor, Physiology and Neurobiology

23. The Identification of Olfactory Receptors Underlying Ammonia Attraction in *Drosophila*
Lina Layakoubi, Biological Sciences
Advisor: Karen Menuz, Professor, Physiology and Neurobiology

24. Cloning of dCas9 gRNAs for Combinatorial Perturbation Experiments
Rahiq Rashid, Molecular and Cell Biology
Advisor: Stefan Pinter, Assistant Professor, Genetics and Genome Sciences

25. Quantifying SH2-Phosphotyrosine Interactions within B-Cell Signaling in Vitro
Klea Ajazi, Molecular and Cell Biology
Marilia Gonzalez, Allied Health Sciences
Advisor: Bruce Mayer, Professor, Genetics and Genome Sciences
Advisor: Kazuya Machida, Associate Professor, Genetics and Genome Sciences

26. Assessing the Therapeutic Potential of Flavonoid Derivative of Cannabis in Preclinical Models of Metastatic Pancreatic Cancer
Suheera Haq, Molecular and Cell Biology
Advisor: Sayeda Yasmin-Karim, Instructor, Radiation Oncology, Dana-Farber Cancer Institute

27. Using Dead Space Ventilation Obtained Through SHAPE Testing to Screen for CTEPH
Aldo Sharofi, Physiology and Neurobiology
Advisor: Raj Parikh, Assistant Professor of Medicine, Department of Pulmonology, Hartford Healthcare

28. Murine Immune Responses to Novel Pichinde Viral Vector-Based Vaccines
Nathan Velazquez, Pathobiology
Advisor: Yuying Liang, Professor, Veterinary and Biomedical Sciences, University of Minnesota
Advisor: Hinh Ly, Professor, Veterinary and Biomedical Sciences, University of Minnesota

29. Using Modified Bacterial Artificial Chromosomes to Develop Transgenic Mouse Models Containing Human Genes with Disease Causing Mutations
Srilekha Kadimi, Diagnostic Genetic Sciences
Advisor: Aamir Zuberi, Director, Technology Evaluation and Development,The Jackson Laboratory
Advisor: Xiaofan Li, Scientist, Technology Evaluation and Development, The Jackson Laboratory

30. Exploring the Function of TOMM70A, MTX2, and MTCH2 in Regulating DELE1's Trafficking
Christina Snicer, Diagnostic Genetic Sciences
Advisor: Xiaoyan Guo, Assistant Professor, Genetics and Genome Sciences

31. Determining How the TM3, Sb Ser Balancer Chromosome Contributes to the Meiotic Drive of the B Chromosomes in *D. melanogaster*
Ryan Gado, Molecular and Cell Biology
Advisor: Stacey Hanlon, Assistant Professor, Molecular and Cell Biology

32. Role of Carbonic Anhydrase Beta in Carbon Fixation in the Human-Associated Methanogen *Methanobrevibacter smithii*
Jacob Goldstein, Molecular and Cell Biology
Advisor: Michel Santiago-Martinez, Assistant Professor, Molecular and Cell Biology

33. Determining the Timing of Post-Mitotic Readthrough Transcription
Sindy Gorka, Molecular and Cell Biology
Advisor: Leighton Core, Associate Professor, Molecular and Cell Biology
Advisor: Jessica Costa-Guda, Assistant Research Professor, Center for Molecular Oncology
Advisor: Jaci VanHeest, Associate Professor, Educational Psychology

34. Contribution of Foreign Body Giant Cells in Foreign Body Reaction to Implantable Devices in CD13KO Mouse Model
Andy Dong, Biological Sciences
Fraser McGurk, Molecular and Cell Biology
Advisor: Mallika Ghosh, Assistant Professor, Center for Vascular Biology
Advisor: Linda Shapiro, Director, Center for Vascular Biology

35. Visualizing the CD13-Dependent Implant Foreign Body Response
Fraser McGurk, Molecular and Cell Biology
Andy Dong, Biological Sciences
Advisor: Mallika Ghosh, Assistant Professor, Center for Vascular Biology

36. Genetic Loss of BMP Signals Regulate Skeletal Stem Cell Populations in Growing Long Bones
Krithika Santhanam, Molecular and Cell Biology & IMJR: Health Policy and Racial Disparities
Isabella Martindale, Physiology and Neurobiology
Advisor: Caroline Dealy, Associate Professor, Craniofacial Sciences, Biomedical Engineering, Orthopedic Surgery & Cell Biology
Advisor: Melanie Fisher, Research Associate, Orthodontics

37. Blood Levels of an Alternative EGFR Isoform Implicated in Cancer Diagnosis
Hailey DeWalt, Molecular and Cell Biology
Advisor: Caroline Dealy, Associate Professor, Craniofacial Sciences, Biomedical Engineering, Orthopedic Surgery & Cell Biology

38. Measuring Motility of Hematopoietic Progenitors by Time-Lapse Imaging and Single Cell Tracking to Elucidate a Role for PAR1 in Osteoclastogenesis
Rebecca Abirached, Medical Laboratory Sciences
Advisor: Vanessa Scanlon, Assistant Professor, Regenerative Medicine
Advisor: Joseph Lorenzo, Professor, Endocrinology

39. Effect of Anti-Inflammatory Drugs and Local Anesthetics on Microtubule Organization
Alexander Greb, Physiology and Neurobiology
Advisor: Lakshmi Nair, Associate Professor, Orthopedic Surgery

40. Impact of a Walnut-Rich Diet on the Murine Gut Microbiome and Metabolism
Darren Lee, Molecular and Cell Biology
Advisor: Yanjiao Zhou, Associate Professor, Medicine
Advisor: Yair Dorsett, Instructor, Medicine

41. Investigating the Role of TEAD1 in UUO Induced Renal Fibrosis in Mice
Oliver Sabet, Molecular and Cell Biology
Advisor: Melanie Tran, Instructor, Nephrology

42. Functional Analysis of Cancer Associated Variants in the *MSH6* Mismatch Repair Gene
Olivia Amodeo, Molecular and Cell Biology
Advisor: Chris Heinen, Professor, Center for Molecular Oncology

43. All Together Now: The Relationship Between Predatory Protists and Bacterial Multicellular Structures
Alexandra Carabetta, Diagnostic Genetic Sciences & Molecular and Cell Biology
Advisor: Lindsay Triplett, Chief Scientist, Plant Pathology and Ecology, Connecticut Agricultural Experiment Station

44. USP7 Mutations in Hao-Fountain Syndrome Patients Affect MAGEL-2 Interaction with Both the TRAF-like and UBL1-2 Domains of USP7
Gabriela Soriano, Structural Biology and Biophysics & Molecular and Cell Biology
Advisor: Irina Bezsonova, Associate Professor, Molecular Biology and Biophysics

45. Exploring the Structure and Assembly of Janus-Based Nanotubes (JBNts) Through Multiscale Molecular Dynamics Simulations
Rey Carten, Molecular and Cell Biology
Advisor: Eric May, Associate Professor, Molecular and Cell Biology

46. Characterizing Cell Attachment to Novel Substrates to Promote Radial Organization of Neural Precursor Cells In Vitro
Sanjana Nistala, Biomedical Engineering
Advisor: Jean Hebert, Professor, Dominick P. Purpura Department of Neuroscience, Albert Einstein College of Medicine

47. Degradation of 17α-Ethynylestradiol by Genetically Engineering the CotA Laccase Gene of *Bacillus licheniformis*
Nathan Shaw, Biological Sciences
Alex Frutos, Molecular and Cell Biology
Srishti Tandon, Molecular and Cell Biology
Advisor: Lisa Nigro, Assistant Research Professor, Institute for Systems Genomics

48. Demineralized Cartilage-Bone Matrix as a Model for Studying Extracellular Control for Mineral Deposition
Ryan Westervelt, Biomedical Engineering
Advisor: Jungwoo Lee, Associate Professor, Chemical Engineering, University of Massachusetts Amherst

49. Proteoglycan-4 (PRG4) as a Prognostic Biomarker for Post-Cardiopulmonary Bypass Lung Injury in Pediatric Patients
Emma Slavin, Biomedical Engineering
Advisor: Tannin Schmidt, Associate Professor, Biomedical Engineering

50. The Effects of Labile Carbonate on Bone-Like Apatite Dissolution
Caroline Flanagan, Biomedical Engineering
Advisor: Alix Deymier, Asst Prof/Basic Sci, Biomedical Engineering

51. Screw-Assisted 3D Printing of Customized Biomaterials for Bone Defect Reconstruction
Feiyang Li, Biomedical Engineering
Advisor: Ali Tamayol, Associate Professor, Biomedical Engineering

52. Can Bisphosphonate Treatment Prevent Rotator Cuff Degradation During Disuse?
Sydney Whittaker, Molecular and Cell Biology
Advisor: Alix Deymier, Assistant Professor, Biomedical Engineering

53. A HaloTag-Based Hybrid Sensor for Gauging Intracellular Tensile Forces
Aiden Reilly, Biomedical Engineering
Advisor: Yi Wu, Associate Professor, Center for Cell Analysis and Modeling

54. Investigating the Effect of Acvr1^(R206H) Expression in Muscle Stem Cells on Skeletal Muscle Regeneration
Fariha Fardin, Molecular and Cell Biology
Advisor: David Goldhamer, Professor, Molecular and Cell Biology

55. Impact of Storing Aspirin Tablets in a Car for the Summer in CT
Lyla White, Pharmacy Studies
Advisor: Bodhi Chaudhuri, Professor, Pharmaceutical Sciences

56. Secure Two Party Computation for V2X Deep Learning Tasks
Joshua Lee, Statistical Data Science
Advisor: Yuan Hong, Associate Professor, Computer Science and Engineering

57. The First Genome Reference for the Tropical Legume, *Inga vera*, and Comparative Analysis of Genes Involved in Nitrogen Fixation Among the Fabaceae
Harshita Akella, Molecular and Cell Biology
Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

58. Fast, Easy, Green Preparation of a Novel Biologically Active Molecule
Katrina Doherty, Chemistry
Advisor: Nicholas Leadbeater, Associate Professor, Chemistry

59. Analyzing the Impact of Environmental Contaminants in Conjunction with Microplastics on Soil Protist Motility and Abundance
Mehr Chhatre, Chemical Engineering
Advisor: Leslie Shor, Professor, Chemical and Biomolecular Engineering

60. The Synergic Role of Electrical and Chemical Stimulation for Wound Healing Applications
Laxmi Vobbineni, Biomedical Engineering
Advisor: Sangamesh Kumbar, Professor, Biomedical Engineering

61. Exploring the Synthesis and Reactivity of β-Thiolactones: New Templates for Drug Discovery
Brandon Davis, Chemistry
Advisor: Amy Howell, Professor, Chemistry

62. Antimicrobial Peptide-Ruthenium Conjugates – An Answer to the Drug Resistance Epidemic
Megan Schmitt, Physiology and Neurobiology
Advisor: Alfredo Angeles-Boza, Associate Professor, Chemistry
Advisor: Scott Pierce, Assistant Professor in Residence, Chemistry

63. Energy Efficiency Solutions for Small/Medium Manufacturers
Nicholas Bailey, Management and Engineering for Manufacturing & Anthropology
Stewart Peng, Mechanical Engineering
Advisor: Liang Zhang, Associate Professor, Electrical and Computer Engineering

64. One Size Does Not Fit All: The Opportunity in Artificially Intelligent Personalized Education
Jada Vercosa, Management and Engineering for Manufacturing
Advisor: Arash Zaghi, Professor, Civil and Environmental Engineering

65. A Game-Theoretic Model for *Schistosoma japonicum* Transmission Dynamics in the Philippines
Yuan-Jen Kuo, Biomedical Engineering
Gian Paras, Engineering, University of Guam
Advisor: Hyunju Oh, Associate Professor, Division of Mathematics and Computer Science, University of Guam
Advisor: Leslie Aquino, Associate Professor, Division of Mathematics and Computer Science, University of Guam
Advisor: Jan Rychtář, Professor, Mathematics and Applied Mathematics, Virginia Commonwealth University
Advisor: Dewey Taylor, Professor, Mathematics and Applied Mathematics, Viriginia Commonwealth University

66. Constraining Ice Core Paleofire Proxies During Dansgaard-Oeschger 8
Caroline Wexler, Earth Science & IMJR: Geoscience Communication and Visual Media
Advisor: Eric Saltzman, Professor, Department of Earth System Science, University of California, Irvine

67. Effects of Poor Maternal Nutrition During Gestation on F0 and F1 Ewe Colostrum and Milk Composition and Colostrum IgG
Julianna Bosco, Animal Science
Advisor: Kristen Govoni, Professor, Animal Science

68. Sustained Lipopolysaccharide Challenge in Sheep
Laura Centanni, Animal Science
Advisor: Steven Zinn, Professor, Animal Science

69. Designing Dynamic Conductive Coiled-Coil Peptide Fibers
Charlotte Chen, Materials Science and Engineering & Molecular and Cell Biology
Advisor: Allon Hochbaum, Associate Professor, Materials Science and Engineering, University of California, Irvine

70. Picky SWD Parasitoids: Exploring Interactions and Host Selection Behavior on Different Berries
Dom Rowland, Ecology and Evolutionary Biology & Sustainable Plant and Soil Systems
Advisor: Gregory Loeb, Professor, Entomology, Cornell AgriTech

71. Uncovering New Depths of Hidden Algal Diversity and Geographic Distribution within Fog Desert Lichens
Reilly Stiefel, Ecology and Evolutionary Biology & Sustainable Plant and Soil Systems
Advisor: Louise Lewis, Professor, Ecology and Evolutionary Biology

72. DNA Metabarcoding of Marine Zooplankton Samples for Biodiversity Collected in the Northeast US Continental Shelf From Time-Series Ecosystem Monitoring Surveys
Vicki You, Marine Sciences & Ecology and Evolutionary Biology
Advisor: Paola Batta-Lona, Assistant Research Professor, Marine Sciences

73. The First Genome Assembly of Pumpkin Ash (*Fraxinus profunda*) to Identify Resistance to the Emerald Ash Borer (*Agrilus planipennis*)
Owen McEwing, Biological Sciences
David Baukus, Molecular and Cell Biology
Laurel Humphrey, Biological Sciences
Emily Strickland, Molecular and Cell Biology & Nutritional Sciences
Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

74. Quantifying Resistance in the Butternut and Japanese Walnut to an Invasive Fungal Pathogen
Stefan Wnuk, Molecular and Cell Biology
Advisor: Karl Fetter, Postdoctoral Research Assoc, Ecology and Evolutionary Biology

75. Advancing Conservation Efforts for an Endangered North American Walnut (*Juglans cinerea*) with a Chromosome-Scale Reference Genome of Japanese Walnut (*Juglans ailantifolia*)

Cristopher Guzman, Molecular and Cell Biology
Amanda Mueller, Molecular and Cell Biology
Keertana Chagari, Molecular and Cell Biology
Stefan Wnuk, Molecular and Cell Biology
Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology
Advisor: Rachel O'Neill, Professor, Molecular and Cell Biology

Special Thanks

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Jennifer Lease Butts, *Associate Vice Provost, Enrichment Programs and Director, Honors Program*

Office of Undergraduate Research

Staff

Micah Heumann, *Director*

Melissa Berkey, *Assistant Director*

Jodi Eskin, *Program Administrator and Advisor*

Emily Schwab, *BOLD Program Director and Advisor*

Peer Research Ambassadors

Emma Beard ’24 (CLAS)
Riley Beckham ’24 (ENG)
Anabelle Bergstrom ’25 (CLAS)
Fariha Fardin ’25 (CLAS)
Sana Gupta ’24 (CLAS)
Lina Layakoubi ’24 (CLAS)
Darren Lee ’25 (CLAS)
Lucie Lopez ’24 (CLAS)
Fraser McGurk ’25 (CLAS)
Romir Raj ’24 (ENG)
Krithika Santhanam ’25 (CLAS)
Grace Vaidian ’24 (CLAS)

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