## UCONN

# SUMMER RESEARCH DAY

JULY 27, 2023 Academic Rotunda, UConn Health

### **AGENDA**

9:30 – 9:45 am Welcome (Academic Rotunda Room)

**Caroline Dealy**, Director, TIP Innovation Fellows Program **Caroline McGuire**, Executive Director, Enrichment Programs

**Amy Gorin**, Vice Provost for Health Sciences and Interdisciplinary Initiatives **Kimberly Dodge-Kafka**, Assistant Dean for Research Planning and Coordination &

Director of the MD/PhD Program, School of Medicine **Paul Parker**, Director, Technology Incubation Program

9:45 – 10:30 am Short Talks, Session 1 (Academic Rotunda Room)

TIP Fellowship with Bastion Health

Brian Greenspan '25 (Finance, BUS), UConn Storrs

Sponsor: School of Business

Host TIP Company: Bastion Health, Farmington TIP

TIP Fellowship at Enable Life Sciences

Melissa Gallagher '25 (Management and Engineering for Manufacturing, BUS & ENG),

**UConn Storrs** 

Sponsor: UConn Technology Commercialization Services

Yijie Tang '24 MS (Financial Risk Management, BUS), UConn Hartford

Sponsor: School of Business

Host TIP Company: Enable Life Sciences, Farmington TIP

Developing Breakthrough Liquid Biopsy to Profile Treatment Markers in Breast Cancer

**Lauren Ampadu** '26 Pharm.D. (PHR), UConn Storrs Sponsor: UConn Technology Commercialization Services

Antonio J. "A.J." Butler '24 (Computer Science, ENG), UConn Storrs

Sponsor: UConn Technology Commercialization Services

Jade Siqueira '24 (Allied Health Sciences, CAHNR), UConn Storrs

Sponsors: College of Agriculture, Health, and Natural Resources & Women in Math,

Science, and Engineering (WiMSE) Learning Community **Aidan Parilla** '25 (Computer Science, ENG), UConn Storrs

Sponsor: QCDX

Angelica Tafas '26 (Women's, Gender, and Sexuality Studies, CLAS), UConn Storrs

Sponsor: QCDX

Host TIP Company: QCDX, Farmington TIP

**10:30 – 11:30 am** Poster Session 1 (Academic Rotunda Hallways; see map on next page)

11:30 am – 12:30 pm Lunch (provided for student presenters)

**11:45 am – 12:15pm Keynote Address** (Academic Rotunda Room; see speaker biography on page 4)

The Importance of Including Diverse Populations in Biomedical Research

Leslie Caromile, Assistant Professor, Cell Biology

12:30 – 1:30 pm Poster Session 2 (Academic Rotunda Hallways; see map below)

1:30 – 2:15 pm Short Talks, Session 2 (Academic Rotunda Room)

Building a Metabolite Library

Xingyang Zhang '26 (Molecular and Cell Biology, CLAS), UConn Storrs

Sponsor: Women in Math, Science, and Engineering (WiMSE) Learning Community

Host TIP Company: Arome Science, Farmington TIP

A Survey of Antimicrobial Markets

Kristina DeMichiel '25 (Marketing, BUS & Psychological Sciences, CLAS), UConn Storrs

Sponsor: Innovation House Learning Community Host TIP Company: Nanoionix, Farmington TIP

StormDrop: Advancing a Drone Delivery System for All-Weather Environments

Andrew Lefers '26 (Engineering Robotics, ENG), UConn Storrs

Sponsor: School of Engineering

Daniel Barreto '24 (Economics, CLAS), UConn Stamford

Sponsors: UConn Technology Commercialization Services & College of Liberal Arts and

Sciences

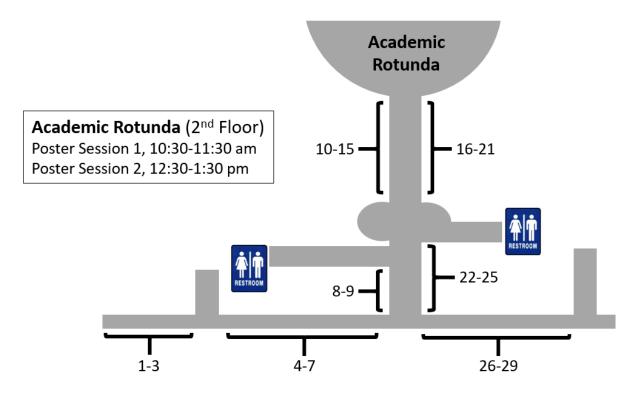
Host TIP Company: Wave Aerospace, Stamford TIP

2:15 – 2:30 pm Closing (Academic Rotunda Room)

Fumiko Hoeft, Director, UConn Waterbury

Leila Daneshmandi, Assistant Professor in Residence, School of Engineering

### **POSTER SESSION MAP**



### **KEYNOTE ADDRESS**

### The Importance of Including Diverse Populations in Biomedical Research

### Leslie Caromile, Ph.D. Center for Vascular Biology, Department of Cell Biology, UConn Health



Dr. Leslie Caromile is an assistant professor in the Center for Vascular Biology, Department of Cell Biology, School of Medicine, UConn Health. Her research leverages tumor biology, biochemistry, mathematical modeling, and metabolomics to discover new ways to detect and treat prostate cancer. Her studies may lead to the development of novel therapeutic strategies in the treatment and detection of prostate cancer by preventing the progression, metastasis, and vascularization of tumors. Moreover, since cancer is one of the most common diseases worldwide, her research is an essential tool for researchers, clinicians, policymakers, and citizens to understand this disease.

Dr. Caromile, who is of Eastern Cherokee heritage, also researches and advocates for underrepresented populations in biomedical science careers. She directs an

undergraduate summer program at UConn Health that encourages and supports students to enter biomedical research careers. She is also co-PI of a NHLBI R25 program that prepares undergraduate students from underrepresented populations for matriculation into biomedical Ph.D. programs. Dr. Caromile is a recipient of the University of Texas, El Paso Building Scholars Program Award for Mentoring Excellence; is a Faculty Research and Education Development and Accelerating Career Transitions Fellow from the American Society for Cell Biology; is a Keystone Symposium Fellow; and is a recipient of the UConn Health <u>faculty spotlight</u> for her work in promoting diversity among students and faculty at UConn Health.

Dr. Caromile received her B.S. in Physiology and Neurobiology from the University of Connecticut, M.S. in Biology from California State University, and Ph.D. in Pathology/Mechanisms of Disease from the University of Washington.

### **POSTER SESSION 1**

10:30-11:30 am

1. Universal Carriers for the Treatment of Colon Cancer

Mia Haynes '24 (Biomedical Engineering, ENG), UConn Storrs

Sponsors: UConn Technology Commercialization Services & School of Engineering

Host TIP Company: Encapsulate, Farmington TIP

2. The Effects of Labile Carbonate on Bone-Like Apatite Dissolution

Caroline Flanagan '25 (Biomedical Engineering, ENG), UConn Storrs

HRP Mentor: Alix Deymier, Assistant Professor, Biomedical Engineering

3. Utilizing "Racetracks" for Characterizing Action Potentials in Cardiac Tissue Monolayers

Ahona Mukherjee '25 (Chemistry & Individualized: Computational Biology, CLAS)

HRP Mentor: Corey Acker, Assistant Professor, Center for Cell Analysis and Modeling

4. A Single-Cell Analysis of the Convergence and Divergence of Neuronal Subtypes in Mouse and Chick Cerebella Shravya Anisetti '26 (Physiology and Neurobiology, CLAS), UConn Storrs HRP Mentor: James Li, Professor, Genetics and Genome Sciences

5. Dynamics of Infiltrating Immune Cells During Alcohol Regression Taemin Kim '25 (Molecular and Cell Biology, CLAS), UConn Storrs HRP Mentor: Adam Kim, Assistant Professor, Medicine

6. Synthesis of a Bio-Active Hydrogel

Geoffrey Wadey '23 (Chemistry & Molecular and Cell Biology), UConn Storrs

Sponsor: College of Liberal Arts and Sciences Host TIP Company: <u>Encapsulate</u>, Farmington TIP

7. *Identification of Novel miR-29 Targets in the Osteoclast Lineage* **Brianna Fraser** '23 (Biological Sciences, CLAS), UConn Storrs & Hartford

HRP Mentor: Anne Delany, Professor, Medicine and Center for Molecular Oncology

8. Determining How Acute Ethanol Alters the Spontaneous Electrical Activity in Cortical Neurons
Olivia Spagnola '24 (Biomedical Engineering, ENG), UConn Storrs
HRP Mentor: Srdjan Antic, Associate Professor, Neuroscience

9. The Synergic Role of Electrical and Chemical Stimulation for Wound Healing Applications **Laxmi Chinmaya Vobbineni** '26 (Biomedical Engineering, ENG), UConn Storrs HRP Mentor: Sangamesh Kumbar, Associate Professor, Orthopedic Surgery 10. Optimizing the Antimicrobial Treatment of Titanium

Margherita Carlucci '23 (Pathobiology, CAHNR), UConn Storrs

Sponsors: UConn Technology Commercialization Services & College of Agriculture, Health, and Natural

Resources

Rohan Kantesaria '25 Pharm.D. (PHR), UConn Storrs

Sponsor: School of Pharmacy

Host TIP Company: DeBogy Molecular, Farmington TIP

- 11. Associations Among Maternal PTSS, Positive and Involved Parenting, and Child Externalizing Behavior Ethel Dvoskin '24 (Psychological Sciences & Human Development and Family Sciences, CLAS), UConn Storrs HRP Mentor: Carolyn Greene, Associate Professor, Psychiatry
- 12. Predictors of HIV Testing Among At-Risk Women: A Secondary Analysis of Data from a Randomized Controlled Trial

Aayaat Saiyed '24 (Cognitive Science, CLAS), UConn Storrs

HRP Mentor: Kristyn Zajac, Assistant Professor, Medicine and the Calhoun Cardiology Center

13. Exploring the Impact of PTSD on Treatment Adherence in Buprenorphine-Assisted Treatment for Opioid Use Disorder

Amen Khan '25 (Psychological Sciences, CLAS), UConn Storrs

HRP Mentor: Carla Rash, Associate Professor, Medicine

14. Transitional Metal Oxide Nanoarray Catalyst for Low-Temperature CO Oxidation

Zichen Wang '24 (Materials Science and Engineering, ENG), UConn Storrs

Sponsor: UConn Technology Commercialization Services

Host TIP Company: 3-D Array, Storrs TIP

15. Quantifying SH2-Phosphotyrosine Interactions within B-Cell Signaling in Vitro

Klea Ajazi '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Bruce Mayer, Professor, Genetics and Genome Sciences and the Center for Cell Analysis and

Modeling

16. Exploring the Functions of TOMM70A, MTX2, and MTCH2 in Regulating DELE1's Trafficking

Christina Snicer '25 (Diagnostic Genetic Sciences, CAHNR), UConn Storrs

HRP Mentor: Xiaoyan Guo, Assistant Professor, Genetics and Genome Sciences

17. Blood Brain Barrier Leak of Small and Advanced Patient Derived Xenografts (PDX) Gliomas

Maria Choudhry '25 (Allied Health Sciences, CAHNR), UConn Stamford

HRP Mentor: Henry Smilowitz, Associate Professor, Cell Biology

18. Role of 62 Adrenergic Receptor Agonist Salbutamol in Neutrophil Integrin Activation

**Aryan Singh** '26 (Biomedical Engineering, ENG), UConn Storrs

HRP Mentor: Zhichao Fan, Assistant Professor, Immunology

19. Cancer Treatment for Pets: New Solutions Built on Established Success Emilie Karovic '24 MS (Applied Microbial Systems Analysis, CLAS), UConn Storrs

Sponsor: College of Liberal Arts and Sciences

Host TIP Company: Torigen Pharmaceuticals, Farmington TIP

20. *Immunohistochemical Evaluation of a Mouse Model of Primary Hyperparathyroidism* **Luciana Santillana Linares** '24 (Physiology and Neurobiology, CLAS), UConn Storrs

HRP Mentor: Jessica Costa, Assistant Research Professor, Center for Molecular Oncology and the Center for

Regenerative Medicine and Skeletal Development

21. Connecting Inventions to Society: UConn Technology Commercialization Services

Isaac Piegat '26 (Computer Science & Engineering, ENG), UConn Stamford Sponsors: UConn Technology Commercialization Services & UConn Stamford Peter Vaichus '26 (Computer Science & Engineering, ENG), UConn Waterbury Sponsors: UConn Technology Commercialization Services & UConn Waterbury

TIP Host: TCS Internship Program

22. Adult Use Cannabis Legalization: A Scoping Review of Outcome Monitoring Recommendations

Maryam Mageed '24 (Psychological Sciences, CLAS), UConn Storrs

HRP Mentor: Megan O'Grady, Assistant Professor, Public Health Sciences

23. Investigating the Role of HB-EGF on the Mechanical Properties of Decidualized Endometrial Fibroblast Cells JiaLiAn Stolfi '24 (Marketing, BUS & Journalism, CLAS), UConn Storrs HRP Mentor: Kshitiz, Assistant Professor, Biomedical Engineering

24. Using Red Blood Cell Cytoskeleton to Probe the Structural Basis of Actin Polymerization by Formins Jieun Park '26 (Physiology and Neurobiology, CLAS), UConn Storrs
HRP Mentor: Steven Chou, Assistant Professor, Molecular Biology and Biophysics

 $25.\ High-Throughput\ Tumor-on-a-Chip\ Platform\ for\ Personalized\ Colon\ Cancer\ Treatment$ 

Roshni Karun '25 Pharm.D. (PHR), UConn Storrs

Sponsor: School of Pharmacy

Host TIP Company: Encapsulate, Farmington TIP

26. Synthesis of New Voltage Sensitive Dyes

Thejas Nair '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Ping Yan, Assistant Professor, Center for Cell Analysis and Modeling

27. Boosting the Cytotoxic Function of Natural Killer Cells Claire Palin '23 (Biomedical Engineering, ENG), UConn Storrs

Sponsor: School of Engineering

Host TIP Company: Enable Life Sciences, Farmington TIP

28. Using Deep Learning to Track Mammalian Facial Expressions in Correlation to Brain Activity

**Varun Chamarty** '26 (Biomedical Engineering, ENG), UConn Storrs HRP Mentor: Timothy Spellman, Assistant Professor, Neuroscience

### **POSTER SESSION 2**

12:30-1:30 pm

1. Construction of a Comprehensive Microbiome/Tumoroid BioChip Nihal Kamath '24 (Biomedical Engineering, ENG), UConn Storrs Sponsor: UConn Technology Commercialization Services

Host TIP Company: Bactana, Farmington TIP

2. Screw-Assisted 3D Printing of Customized Biomaterials for Bone Defect Reconstruction

Feiyang Li '24 (Biomedical Engineering, ENG), UConn Storrs

HRP Mentor: Ali Tamayol, Associate Professor, Biomedical Engineering

3. Investigating Inflammasome Activation and the Role of Shiga Toxin in Modulating the Innate Immune Response

Rachel Lambert '24 (Pathobiology, CAHNR), UConn Storrs

HRP Mentor: Sivapriya Kailasan Vanaja, Assistant Professor, Immunology

4. Spatial Modeling of Escherichia coli in the Human Gut

Isha Mendiratta '26 (Biomedical Engineering, ENG), UConn Storrs

HRP Mentor: Eran Agmon, Assistant Professor, Center for Cell Analysis and Modeling, Molecular Biology and Biophysics, and Biomedical Engineering

5. Artificial Intelligence Tax Evaluation

Chris Rough '25 (Computer Science, ENG), UConn Stamford

Sponsors: UConn Technology Commercialization Services & UConn Stamford

Host TIP Company: Neural Tax Networks, Stamford TIP

6. Rodent CNS In-Vivo Injury Models and Gene Therapy

Anja Kearney '26 (Physiology and Neurobiology, CLAS), UConn Storrs

HRP Mentor: Ephraim Trakhtenberg, Assistant Professor, Neuroscience

7. Functional Characterization of Duplicated Aminoacyl-tRNA Synthetase Genes from Burkholderia thailandesis and Mycobacterium tuberculosis

Juan Maldonado '24 (Biological Sciences, CLAS), UConn Storrs & Stamford

HRP Mentor: Oscar Vargas-Rodriguez, Assistant Professor, Molecular Biology and Biophysics

8. Effect of Anhedonia in Late-Life Depression on Cognitive Function and Decline

Andrew Kim '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Kevin Manning, Associate Professor, Psychiatry and Center on Aging

9. Fractional Exhaled Nitric Oxide: A Window Into Airway Inflammation

Elliana Castiglia '26 (Biological Sciences, CLAS), UConn Storrs

HRP Mentor: Misti Levy Zamora, Assistant Professor, Public Health Sciences

10. Inhale, Exhale: How OnGo Health Makes Breathing More Engaging

**Julia Bertello Scuccuglia** '25 (Physiology and Neurobiology, CLAS), UConn Storrs Sponsor: Women in Math, Science, and Engineering (WiMSE) Learning Community

Abhinav Chalasani '25 Pharm.D. (PHR), UConn Storrs

Sponsor: School of Pharmacy

Host TIP Company: OnGo Health, Stamford TIP

11. Proteoglycan-4 (PRG4) as a Prognostic Biomarker for Post-Cardiopulmonary Bypass Lung Injury in Pediatric Patients

Emma Slavin '24 (Biomedical Engineering, ENG), UConn Storrs

HRP Mentor: Tannin Schmidt, Associate Professor, Biomedical Engineering

12. Elevating Brand Awareness for The Feel Good Lab

**Kevin Rudzinski** '25 (Economics, CLAS), UConn Storrs Sponsor: UConn Technology Commercialization Services Host TIP Company: The Feel Good Lab, Farmington TIP

13. Contribution of Foreign Body Giant Cells in Foreign Body Reaction to Implantable Devices in CD13KO Mouse Model

Andy Dong '26 (Biological Sciences, CLAS), UConn Storrs

HRP Mentor: Mallika Ghosh, Assistant Professor, Cell Biology and Center for Vascular Biology

14. Modeling Encephalomyosynangiosis After an Ischemic Stroke

**Vraj Patel** '26 (Physiology and Neurobiology, CLAS), UConn Storrs HRP Mentor: Rajkumar Verma, Assistant Professor, Neuroscience

15. Blood Levels of an Alternative EGFR Isoform Implicated in Cancer Diagnosis

Hailey DeWalt '26 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Caroline Dealy, Associate Professor, Craniofacial Sciences, Biomedical Engineering, Orthopedic Surgery, and Cell Biology

16. Track-A-Worm (v2): A Comprehensive Software Suite for C. Elegans Neurobiology

**Ryan Ma** '26 (Biological Sciences, CLAS), UConn Storrs HRP Mentor: Zhao-Wen Wang, Professor, Neuroscience

17. Application of Chromophore Analysis

Anan Merany '24 (Biomedical Engineering, ENG), UConn Storrs

Sponsor: UConn Technology Commercialization Services

Host TIP Company: Cytoveris, Farmington TIP

18. Understanding User Needs: Engage and Empower with Interactive Quizzes

Roya Movahed '24 MS (Digital Media and Design, SFA), UConn Storrs

Sponsor: UConn Technology Commercialization Services Host TIP Company: The Feel Good Lab, Farmington TIP

19. Cloning of dCas9 Guide RNAs for Combinatorial Perturbation Experiments

Rahiq Rashid '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Stefan Pinter, Assistant Professor, Genetics and Genome Sciences

20. The Impact of Histidine Kinase 2 on Spirochetal Survival and Infectivity

Rebecca Kramer-Earley '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Melissa Caimano, Associate Professor, Medicine, Pediatrics, and Molecular Biology and

Biophysics

21. Metal Oxide Ceramics: Safer Alternative to Disinfectants

Gavin McDonough '26 DMD, UConn School of Dental Medicine, Farmington

Sponsors: UConn Technology Commercialization Services & School of Dental Medicine

Host TIP Company: Nanoionix, Farmington TIP

22. Understanding Phosphotyrosine Signaling in Chronic Lymphocytic Leukemia Using Single-Cell SH2 Profiling

Marilia Gonzalez '24 (Allied Health Sciences, CAHNR), UConn Waterbury

HRP Mentor: Ji Yu, Associate Professor, Center for Cell Analysis and Modeling and Genetics and Genome

Sciences

23. Widespread 3' UTR Lengthening and Alternative Splicing in Human ES Cell Neural Differentiation

Steven Chen '25 (Physiology and Neurobiology, CLAS), UConn Storrs

HRP Mentor: Pedro Miura, Associate Professor, Genetics and Genome Sciences

24. TIP Fellowship at Solution Spray Technologies

Noah Levine '24 (Chemistry, CLAS), UConn Storrs

Sponsor: College of Liberal Arts and Sciences

Host TIP Company: Solution Spray Technologies, Storrs TIP

25. Impact of a Walnut-Rich Diet on the Murine Gut Microbiome and Metabolism

Darren Lee '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Yanjiao Zhou, Assistant Professor, Medicine

26. Functional Analysis of Cancer Associated Variants in the MSH6 Mismatch Repair Gene

Olivia Amodeo '26 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Christopher Heinen, Professor, Medicine and Center for Molecular Oncology

27. Investigating the Role of TEAD1 in UUO Induced Renal Fibrosis in Mice

Oliver Sabet '25 (Molecular and Cell Biology, CLAS), UConn Storrs

HRP Mentor: Melanie Tran, Instructor, Nephrology

28. Effect of Downregulating BMP2 on Osteogenic Gene Expression

Ryan Chan '25 (Exercise Science, CAHNR), UConn Storrs

HRP Mentor: Archana Sanjay, Associate Professor, Orthopedic Surgery

29. FootTraffic Stats: Tracking Office Visit Times

Meng Zhang '24 MS (Business Analytics & Project Management, BUS), UConn Stamford

Sponsor: School of Business

Host TIP Company: FootTraffic Stats, Stamford TIP

### **ACKNOWLEDGEMENTS**

On behalf of the Health Research Program and the TIP Innovation Fellows Program, we thank all of the people who have advised and mentored the participating students this summer. This community of mentors includes faculty, staff, postdoctoral scholars, and graduate students in the research groups and TIP companies that have hosted students; guest speakers and presenters who have shared their expertise and insights; and the numerous advocates for these programs who encouraged students to apply and participate. We also thank the members of the UConn community who have supported the operations of these programs, making it possible for students to engage in these summer learning opportunities at UConn Health and at TIP locations across the state of Connecticut.

We thank the University's President, Radenka Maric, for her sustained commitment to developing experiential learning opportunities for our students and to fostering creativity, innovation, and entrepreneurship in education and research.

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- Dean Bruce Liang and the School of Medicine
- Dean Steven Lepowsky and the School of Dental Medicine
- Associate Vice Provost Jennifer Lease Butts and Enrichment Programs

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- Associate Vice President Abhijit Banerjee and Technology Commercialization Services
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- Dean John Elliott and the School of Business
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- Dean Deborah Chyun and the School of Nursing
- Dean Philip Hritcko and the School of Pharmacy
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- Executive Director David Ouimette and the Office of First Year Programs and Learning Communities

Finally, we thank the student participants for their curiosity, enthusiasm, and commitment to deep engagement with their summer projects.

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