

BTP 2026 Retreat

DATE

2

SEPTEMBER 2026
WEDNESDAY

HOTEL INFORMATION

HAMPTON INN BOSTON
SEAPORT DISTRICT670 SUMMER ST.
BOSTON MA 02210

7:00 AM

DEPART FROM UMASS AMHERST

Everyone will meet outside LSL (240 Thatcher Rd.) at 6:30 am. We will depart precisely at 7:00 am. Do not be late.

9:30 AM
10:00 AM**CHECK IN - BRISTOL MYERS SQUIBB
GUIDED TOUR - BRISTOL MYERS SQUIBB**

1:00 PM

TRANSPORT TO SHADOWING SITES

Boxed Lunches On Bus

Each student will ride to their assigned drop-off location. From there, you'll walk to your individual shadowing site.

Stop 1: Cambridge (*Boston Marriott*)**Stop 2:** Seaport (*Hampton by Hilton*)**Stop 3:** AI Proteins (*660 Beacon St. Boston*)

2:30 PM

SHADOWING EXPERIENCE

Students will enjoy time at their shadowing location OR a group shadowing experience at AI Proteins.

5:00 PM

TRANSPORT TO HOTEL

Students will transport back to the hotel from shadowing sites.

5:30 PM

POSTER SESSION & COCKTAIL HOUR*(Pre-Fuction Space / Hallway)*

Students will share their research at Poster Session #1

7:00 PM

DINNER*(Joseph T O'Calahan Ballroom)*

Students are able to network over a dinner with the shadowing mentors.

2020 BTP Retreat



DATE

3 SEPTEMBER 2026
THURSDAY

HOTEL INFORMATION

HAMPTON INN BOSTON
SEAPORT DISTRICT

670 SUMMER ST.
BOSTON MA 02210

BIOTECH BATTLES TEAM LEADERS
& ROOM ASSIGNMENTS

- **Team Bo Yan**
Beam Therapeutics
Room Assignment: Ensign Board Room
- **Team Joanna Swain**
Repertoire Immune Medicines
Room Assignment: Commander Room
- **Team Samantha Bernard Nicholls**
Atlas Venture NewCo
Room Assignment: Captain Room
- **Team Genevieve Abbruzzese**
Takeda Pharmaceuticals
Room Assignment: Admiral Board Room
- **Team Steve McCarron**
Intellia Therapeutics
Room Assignment: Ballroom - Section A
- **Team Mark Anthony Leon Duque**
Vertex
Room Assignment: Ballroom - Section B

6:00 AM - 9:00 AM

BREAKFAST
(Hotel Lobby)

9:30 AM

WELCOME & SCIENTIFIC KEYNOTE SPEAKERS
(Joseph T O'Calahan Ballroom)

9:30 AM

JOANNA SWAIN
Repertoire Immune Medicines
"Translating Immune Intelligence into Immune Medicines at Repertoire"

10:00 AM

GENEVIEVE ABBRUZZESE
Takeda Pharmaceuticals
"Engineering next generation T cell engagers for improved therapeutic index"

10:30 AM

BO YAN
Beam Therapeutics
"The Power of Predictability"

11:00 AM

COFFEE BREAK & POSTER SESSION
(Pre-Fuction Space / Hallway)

12:00 PM

LUNCH
(Joseph T. O'Calahan Ballroom)

1:15 PM

BIOTECH BATTLES MISSION OVERVIEW & INTRODUCTION OF TEAM LEADERS
(Joseph T. O'Calahan Ballroom)

1:30 PM

TEAM PREPARATION SESSIONS
Teams will break off into their assigned locations with their team leader.

4:30 PM

TEAM PRESENTATIONS
(Joseph T. O'Calahan Ballroom)

5:30 PM

AWARDS CEREMONY & HAPPY HOUR
(Joseph T. O'Calahan Ballroom)

7:00 PM

FREE TIME & DINNER ON YOUR OWN
We recommend checking out Harpoon Brewery.

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FRIDAY

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8:00 AM

OPTIONAL GROUP WORKOUT

Student Volunteers will lead Group Run's, Walks, Fitness Experiences, etc.

10:00 AM

STUDENT PRESENTATIONS

(Joseph T. O'Calahan Ballroom)

10:00 AM

BEATRIZ MARTINEZ-MARTIN

Understanding how the brain microenvironment influences cellular growth and composition

10:20 AM

ANIRUDH DEVARAJAN

Dual-Action-Only PROTACs to Combat Off-Target Toxicity

10:40 AM

GABRIELLE VILLAFANA

Investigating the role of LRP1 dependent tau uptake and therapeutic targeting

11:00 AM

JENNIFER RAUCH

Tau & LRP1: A Love Story (and How We're Breaking It Up)

11:20 AM

COFFEE BREAK

(Pre-Fuction Space / Hallway)

11:40 AM

PETER CHIEN

Collateral vulnerabilities of the oxidative stress response

12:00 PM

DYLAN FRANK

Characterizing LotP - an endogenous regulator of Lon protease activity in *Caulobacter crescentus*

12:20 PM

SEEMA AMIN

Engineering a 3D Ectopic Bone and Marrow Niche with Applications in Metastatic Cancer Dormancy

12:40 PM

ANTARIKSH PENTE

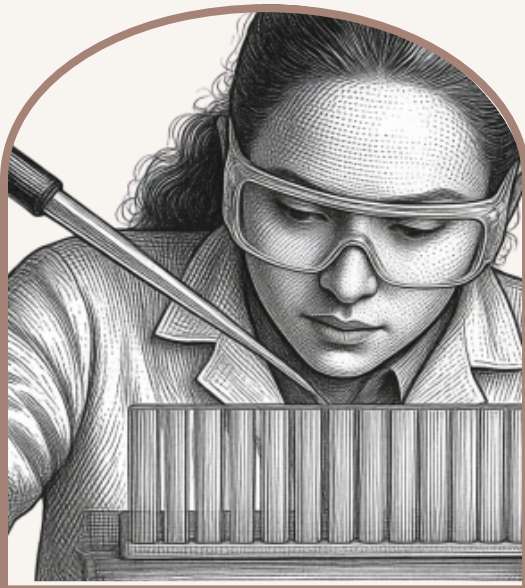
Pattern formation of 2-D colloids in Giant Unilamellar Vesicles

1:00 PM

CONCLUDING REMARKS

1:30 PM

BOXED LUNCHES ON BUS & TRANSPORT TO AMHERST



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POSTER SESSION #1

ANDREW PARKER

Lipid Nanoparticle Interaction with Neutrophils for Immune
Modulation by mRNA Delivery

ANNA POSTNIKOVA

Uncovering sex differences in protein phosphatase 1 regulatory
subunit 11 function during mouse preimplantation development

SARAH MIRZA

V-ATPase assembly factor Dmx11 is required for successful nutrient
transfer in gastrulating murine embryos.

EMME LEAO

Assessing the proteome-wide selectivity of the allosteric caspase-6
inhibitor KT-57

ISHA FAROOK

Exploiting Functional Polymer Zwitterions for Enzyme-Mediated
Bioconjugation Methodology

LAURA CASADO MAYO

Enhancing the culture of primary mouse fibroblasts to study age-
dependent effects in skin tissue engineering in vitro

LUYING (LOUISE) HE

Kombucha Non-Woven Membranes for Sustainable Water Filtration

LYDIA PROSKAUER

Characterizing the cellular and molecular basis of CASK-mediated
cerebellar hypoplasia using human iPSC-derived cerebellar organoids

MATTHEW HINDERHOFER

Investigation of 5' Neurexin-1 Deletions in Neurodevelopmental
Disorder Specification

MUHAMMAD RAHAT

Development of Chikungunya Virus directed antivirals

SHLOK MISHRA

Programmable Homoserine Lactone Communication for Synthetic
Bacterial Consortia

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POSTER SESSION #2

ANNIRUDDHA PINJARI

Engineering mRNA cancer vaccines to enhance Immune Activation
without affecting Vaccine's Performance

AUGGUSTINE SOBO

Perfluorooctanesulfonic acid (PFOS) and glucose exposures alter pancreatic
islet vascularization during development in zebrafish (*Danio rerio*)

CHANELLE MOISE

Time-of-Day Matters: Delayed Healing and Altered Tissue
Regeneration in Rest vs. Active Phase Wounds

HYEJIN YOON

Cartilage-attached demineralized bone paper for studying joint
mineralization

KELLY ZHANG

Timed to Heal: Investigating Role of Circadian Rhythms in Tissue
Regeneration using Automated Ex Vivo/In Vitro Platforms

MADISON NEWMAN

Understanding the *Fusarium oxysporum* Fo47 Genome

MELANIE WU

Develop siRNA-based antifungal therapeutics to control *F.*
oxysporum human infection

BADAL SINGH

Polymeric Lysosomal Targeting chimeras(PolyTACs): A multivalent
approach for lysosomal degradation of membrane proteins

STEPHANIE RIDLEY

Revealing the Mucin-Induced Signaling Cascade in *Batrachochytrium*
dendrobatidis Encystation