

MSB NEWS

Monthly Newsletter



Department of

Molecular and Systems Biology

Geisel School of Medicine at Dartmouth

Let's stay connected...

Hope everyone in MSB is enjoying the fine summer weather and getting ready for the Prouty, upcoming PhD thesis defenses, and a serious cornhole rematch on August 17th. We have several new folks to welcome to the department, as well as a new pet of the month – one of your all-time, favorite newsletter features! Have a happy 4th of July!



[GEISEL CALENDAR](#)

[SUBMIT CONTENT](#)

[MSB CALENDAR](#)



Department of
MSB Molecular and Systems Biology
Geisel School of Medicine at Dartmouth

Ph.D. THESIS DEFENSE SEMINAR

Meredith Brown

Ph.D. Graduate Student
Department of Molecular and Systems Biology

***“Roles of Epithelial-Mesenchymal plasticity
in tumor heterogeneity, metastasis, and
patient survival in breast cancer”***

**Friday
July 15, 2022
9:00 A.M.**

Borwell 658W

Advisor: Diwakar Pattabiraman, Ph.D.



**Ph.D. THESIS
DEFENSE SEMINAR**

Kamran Tariq

Ph.D. Graduate Student
Department of Molecular and Systems Biology

**“Disentangling the role of mTOR complexes
underlying PTEN-loss associated Autism”**

**Monday
August 8, 2022
9:00 A.M.**

Chilcott Auditorium

Advisor: Bryan Luikart, Ph.D.

Making Summer Better

What: Molecular & Systems Biology welcome back party. Lots of food, drink, games, water sports and fun.

When: Wednesday, August 17th, 3 p.m. - 7p.m.

Who: Faculty, students, staff and families

Where: Storrs Pond, Byrne Pavilion

Why: Time to reconnect, meet new members of the department and relax.

Time to reunite before the fall term for the MSB (**Making Summer Better**) department party, to welcome new lab members and catch up with colleagues and friends. Partners and family members welcome!

KUDOS



Congratulations Armina Frederick from the Dunlap/Loros lab, she has been awarded a three year F31 NRSA Predoctoral Fellowship from NIDDK entitled, **“Circadian Regulation of In Vitro Differentiated Adipocytes”**

Congratulations to QBS MD/PhD student Marek Svoboda and Gio Bosco and their collaborators at the University of Arizona for their study showing that human DNA repair polymerases are co-opted by DNA viruses to ensure their genome replication and stability, which was just accepted for publication in PNAS.

Host translesion polymerases are required for viral genome integrity
Sebastian Zeltzer¹, Pierce Longmire², Marek Svoboda³, Giovanni Bosco³ and Felicia Goodrum^{1,2,4}

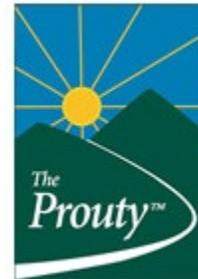
¹BIO5 Institute, University of Arizona, Tucson, AZ 85721

²Graduate Program in Molecular Medicine, University of Arizona, Tucson, AZ 85721

³Department of Molecular and Systems Biology, Dartmouth Geisel School of Medicine, Hanover, NH 03755

⁴Department of Immunobiology, University of Arizona, Tucson, AZ 85721

[The Prouty](#) is northern New England's largest family-friendly fundraising event combining cycling, walking, golf and more to raise funds and awareness for life-saving research and critical patient and family support services at Dartmouth Cancer Center. July 8-9, 2022.



WELCOME

Welcome Mackenzi and Kate to MSB!



Mackenzi Prina, a New Hampshire native, attended Quinnipiac University in Connecticut, where she studied Biomedical Science. She performed research examining neuronal circuitry in stress and depression for her Master's thesis and is excited to explore neuronal circuitry in

autism as a technician in the Luikart lab.
Mackenzi enjoys skiing and hiking with her dog.

Kate Moss recently graduated from Plymouth State University with a B.S. in Biology. For the past two years, she was studying circadian rhythms in *Limulus polyphemus* (American Horseshoe Crab) using RNAi and electroretinograms. Kate is eager to learn more about the zebrafish model as a new lab technician in the Halpern group.



MCB NEW STUDENT ORIENTATION

August 22, 2002, 3-5pm

Hanover Campus

More details coming soon!



RECIPE OF THE MONTH

Red, White and Blue Trifle | [The Pioneer Woman](#)



Fireworks have nothing on this beauty!

- 8 oz. cream cheese, at room temperature
- 1/2 c. granulated sugar
- 1 1/2 c. heavy cream
- 1 tsp. vanilla extract
- 1 lb. pound cake, cubed
- 2 6 oz. containers blueberries (about 2 cups)
- 2 6 oz. containers blackberries (about 2 1/2 cups)
- 1 1/2 qt. strawberries, stems removed, sliced

1. In the bowl of a stand mixer with a paddle attachment, combine the cream cheese and granulated sugar. Beat on medium-high for 1 to 2 minutes until smooth. Scrape the sides and bottom of the bowl. With the mixer on medium, slowly add the heavy cream and vanilla and mix until combined. Switch to the whisk attachment and whip at medium speed until soft peaks form and the mixture is easy to dollop.

2. In a large trifle dish (about 12 to 14 cups), place a single layer of cake cubes. Top with two-thirds of the blueberries and blackberries, then one-half of the whipped cream (about 2 cups), then two-thirds of the strawberries. Repeat the cake and cream layers once more, then decorate the top with the remaining berries. Serve immediately or make in advance and store for up to 24 hours in the refrigerator.

PET OF THE MONTH



Julius is a new addition to the Halpern/Ippolito household, who is not sure if he is actually a five month old puppy or a little kid in bear's clothing. He is a contemplative and calm collector of shoes, but doesn't chew them up.....yet!





COVID-19 UPDATE

COVID-19 testing resources will remain available to faculty, staff, and students:

- Face masks and take-home rapid antigen tests continue to be available to faculty, staff, and students at [pick-up locations](#) across campus.
- COVID-19 tests are also available through local testing resources listed on the state health department websites for [New Hampshire](#) and [Vermont](#).

For instruction on testing, isolation, or quarantine, students should [contact Dartmouth College Health Services](#) and employees should contact Axiom Medical at 833-408-1338.

If you have questions, please reach out to the COVID-19 response team at Covid-19.info@dartmouth.edu.

DARTMOUTH COVID-19:
Coronavirus Information

[STAY INFORMED](#)



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