

MSB NEWS

Monthly Newsletter



Department of

Molecular and Systems Biology

Geisel School of Medicine at Dartmouth

Let's stay connected...

Thirty days hath September,
April, June and November.
Unless a leap year is its fate,
February hath twenty-eight.
All the rest hath three days more,
excepting January,
which hath six thousand,
one hundred and eighty-four.

- Brian Bilston



We welcome February (1 month closer to spring) and our newest faculty member Lauren Walker. Lots of great seminars and other events coming up as well.



KUDOS

Congratulations Yashi for being appointed to the [Cohn Professorship!](#)



Congratulations to Dionna Kasper who won a best poster award for her lab's work on the vasculature at the 2024 Strategic Conference for Zebrafish Investigators at Asilomar, California.

Congratulations to
Shannon Paquette of the
Kasper lab on the arrival of

Elias Martin Paquette

Born on 1/21/2024



DISCOVERY SCIENCE SEMINARS

Discovery Science Seminar

“Age-related changes to stem cells and the stem cell niche”

Leanne Jones, PhD

Professor of Anatomy & Medicine
Director, Bakar Aging
Research Institute
University of California, San
Francisco



Monday, February 5, 2024

12:00pm-1:00pm
Chilcott Auditorium, Vail 120

Host: Marnie Halpern, PhD

For more information contact:
Amy.L.Potter@Dartmouth.edu



Discovery Science Seminar

“ Nucleolar and Splicing Stress Responses in Development and Disease”

Eliezer Calo, PhD

Assistant Professor of Molecular Development Biology
MIT



Monday, February 12, 2024

Noon-1:00pm
Kellogg 200

Host: Esteban Orellana, PhD

For more information contact:

Amy.L.Potter@Dartmouth.edu



Discovery Science Seminar

“Cellular responses to motile cilia forces”

Chad Pearson, PhD

Professor of Cell &
Developmental Biology
University of Colorado |
Anschutz Medical Campus



Monday February 19, 2024

12:00pm-1:00pm
Chilcott Auditorium, Vail 120

Host: Jamie Moseley, PhD

For more information contact:
Jenni.Hinsley@dartmouth.edu



Discovery Science Seminar

“Saturation scale variant-to-function studies of Mendelian disease genes”

Jacob Kitzman, PhD
University of Michigan

Associate Professor of
Computational Medicine
and Bioinformatics



Monday, February 26, 2024

Noon-1:00pm
Chilcott Auditorium, Vail 120

Host: Aaron McKenna, PhD

For more information contact:

Amy.L.Potter@Dartmouth.edu



WELCOME TO MSB

My name is Sakina Khalid and I am a recent graduate from Pennsylvania State University, with a B.S in biochemistry and molecular biology, along with a psychology minor. In my previous undergraduate studies I focused on the stress erythropoiesis cycle using mice models.



Psychology has sparked my interest in neuroscience and I am excited to work and contribute in the Halpern lab and use zebrafish! I love going to the beach and eating pistachio croissants!

Lauren has always been fascinated by how axons, which wire the nervous system, form and maintain circuitry. As a graduate student with Aaron DiAntonio at Washington University in St. Louis, she studied the molecular pathways that break down axons after injury. As a postdoctoral fellow with Michael Granato at the University of Pennsylvania, she switched from degeneration to regeneration. There, she established a model in the larval zebrafish to visualize axon regeneration in vivo and discovered that motor axons regenerate back to their original muscle targets with fidelity. This target-selective axon regeneration is essential for coordinated movement. Lauren joined MSB as an Assistant Professor in January and will continue to research the cellular and molecular mechanisms of how axons build and maintain motor circuitry across development, regeneration, and aging. The Walker lab is currently recruiting at all levels.





UPCOMING EVENTS

Prouty Snow Day on February 3rd

When: Saturday, February 3rd, 10am-1pm

- 10am-11:30am: Reception in the DOC House
- 11:30am-1pm: Snow activities outdoors

Where: Dartmouth Outing Club House, 10 Hilton Field Rd, Hanover, NH 03755

What: A kickoff to The Prouty Season – learn more about The Prouty, where fundraising dollars go, listen to live music by the Dartmouth Aires, and enjoy a continental brunch and warm beverages from 10am-11:30am indoors at the DOC House. We will then have some fun in the snow with S'mores around a campfire, sledding, ice skating, and more from 11:30am-1pm (note: outdoor portion of event is snow/weather dependent)

February 9, 12:00pm — Save the Date: 1st Birthday Celebration for the Samuel Ford McGill Lounge. In the Student Affairs Wing in Remsen. No RSVP required.

MEET UNDER THE LIGHTS

FEBRUARY 9, 2024

2PM-9PM

WHALEBACK SKI AREA

160 Whaleback Mountain Rd, Enfield, NH 03748

All Dartmouth Health and Geisel School of Medicine staff, faculty, students, and family members are invited to participate.

- This event is for people interested in skiing and snowboarding **at all levels**, including beginners and those without equipment of their own.
- **Not a winter sports fan? No problem.** Come and enjoy the taco bar, music and dance with DJs Skar and Sean, hot cocoa bar, and indoor board games. There will be lots to do off the slopes!
- Whaleback Pub (self-pay) opens at 4pm.
- Option to participate in a **cash** raffle to support equity in Whaleback youth programs.



Use QR code or link to register
<http://tinyurl.com/DHSKI24>

***February 2nd is the deadline to purchase tickets, rent equipment, and sign up for ski lessons.
Space is limited so register today!**

COST & REGISTRATION



SNOW SPORTS TICKET \$25 (\$65 value).

Free for kids 5 and under

Includes lift ticket, a trip to the taco bar, dancing to DJ Sean and DJ Skar, hot cocoa bar, gathering by the outdoor firepits, and indoor board games with friends and colleagues.



FOOD AND FUN TICKET \$10 (\$25 value)

Includes everything in snow sports ticket minus the lift ticket.



SKI OR SNOWBOARD EQUIPMENT RENTAL \$5 (\$40 value)

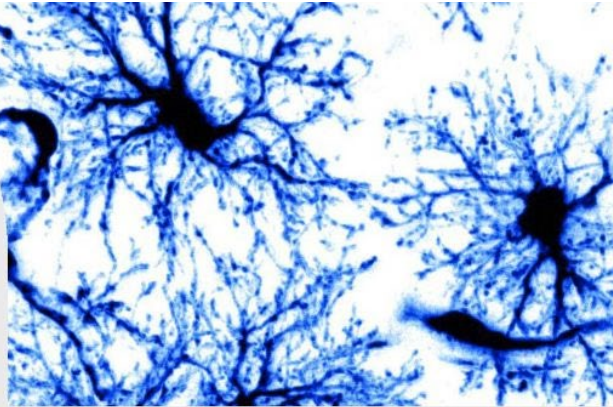
Includes boots and poles as needed. Cost is in addition to snow sports ticket.



GROUP INSTRUCTION FOR SNOW SPORT BEGINNERS \$10 (\$55 value)

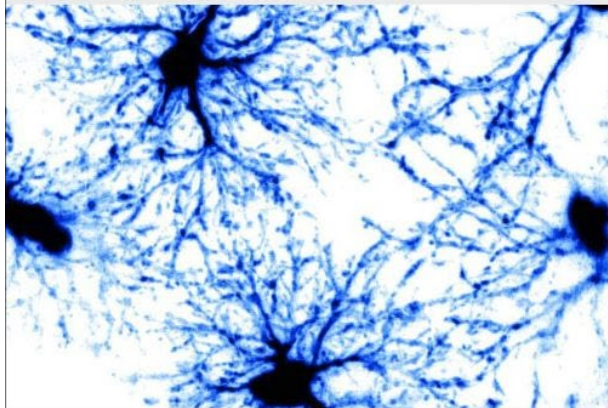
Lessons will be taught by professional Whaleback ski instructors. Cost is in addition to the snow sports ticket. 1 Hour group lessons beginning at 5:30pm, 6:45pm and 8pm

- Invited Speakers
- Student Talks
- Poster Session



Neuroscience Day at Dartmouth

Saturday March 2, 2024
Life Sciences Center at Dartmouth College



**Info and
Registration**



Registration is now open for the 2024 Prouty!

Big News! Registration for the 2024 Prouty and Prouty Ultimate is now open! We have loads of exciting updates to share with you for 2024, including: a newly refreshed website, a very exciting new MOUNTAIN BIKE route, and the wooded walk is back!

Prouty with us in 2024:

- Bike, Walk, Row on July 13th
- Ultimate on July 12th-13th
- Golf on June 15th
- Community Walk: St. Johnsbury on June 15th

[Register today](#) and get a jump start on fundraising for critical research and patient and family support services at Dartmouth Cancer Center. We hope you'll go all in to end cancer with us again and join us for the 43rd Annual Prouty.

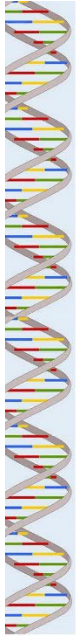
Science Day at Dartmouth 2024: Call for Graduate, Postdoc, and Staff Volunteers!

The ninth annual [Science Day at Dartmouth](#) will be held on Saturday, April 13th from 10am-3pm at the Life Sciences Center! During this event, local students and their families are invited to campus to visit graduate students & post-docs in their labs and learn about what real scientists do every day. Volunteers from different departments organize stations with activities/experiments that are kid friendly and educational. Activities are geared towards 5th-10th graders, however all are welcome. The last Science Day we had more than 400 attendees and 88 volunteers and we hope to have an even bigger turnout this year!

The success of this event depends on you! This is a great opportunity to get experience in community outreach and mentoring. We'd love to see a wide variety of departments represented to give kids a taste of all that science has to offer. You can sign up now as an activity station leader (until March 10th) or as a general volunteer. If you are interested in volunteering for Science Day, please take a moment to fill out this survey: [Science Day Sign-up](#)

Everyone who replies to this survey will be contacting with more details soon! Feel

free to reach out to the Science Day organizers
at scienceday.dartmouth@gmail.com with any questions or concerns.



MSB RESEARCH SYMPOSIUM

SAVE THE DATE

Monday, May 6, 2024
More details to follow soon.





Reporting Credit Card Fraud

When a fraudulent purchase has been identified by you on your Corporate Card or Purchasing Card (PCard), you should contact JP Morgan Chase immediately at 7-800-376-6056, which is also available on the back of your card.

JP Morgan Chase Fraud Notifications

If you have a Dartmouth Corporate Card or Purchasing Card (PCard), be on the lookout for emails from "JPMorganChase FraudPrevention". **These are NOT spam and should not be ignored.** Cardholder alerts notify you of suspicious activity on your account and allow you to quickly reply to validate transactions. To verify the email is legitimately from JP Morgan Chase, check the email address. The email address will be from: jpmorganchase.fraudprevention@jpmchase.com. If you have questions or concerns about the authenticity of a message, call JP Morgan Chase anytime at 7-800-376-6056, which is also available on the back of your card.

To enroll and manage cardholder fraud alerts, a simple way to strengthen your defenses and keep fraudsters at bay, sign up at: ccportal.jpmorgan.com. You will have two options to receive notifications through mobile SMS text

messages and/or an email when there is suspected fraud on your account. Check out the [Dartmouth Credit Card Fraud Reporting](#) sites for more information and guidance



RECIPE OF THE MONTH

Vegetable Lo Mein, [by The Woks of Life](#)

- 1 pound lo mein egg noodles
 - 1 tablespoon dark soy sauce
 - 2 tablespoons light soy sauce
 - 1 teaspoon sesame oil
 - 1 teaspoon sugar (plus 1 teaspoon hot water to dissolve the sugar in)
1. Boil water in a large pot for the noodles. If using the lo mein egg noodles, you can skip this step, as those noodles do not require any pre-cooking. But if using fresh white noodles, you will have to boil them. Just cook until al dente, drain, and

- Pinch of five spice powder (optional)
- 1 tablespoon oil
- 1 clove garlic (minced)
- 1 cup sliced mushrooms (shiitakes, button mushrooms, or anything you like)
- 1 scallion (split at the thick parts and cut into 2-inch lengths)
- 1 bell pepper (red, orange, or yellow; julienned)
- 1 small carrot (julienned)
- 1 tablespoon Shaoxing wine
- 1 cup snow peas (trimmed)
- 1 cup leafy greens (bok choy, choy sum, etc.)



rinse in cold water. Set aside.

2. In a small bowl, combine the soy sauces, sesame oil, dissolved sugar, and five spice powder, if using.

3. Heat 1 tablespoon oil in a wok over high heat and add the garlic, mushrooms, and the white parts of the scallions. Stir-fry for 30 seconds and add the peppers and carrots. Make sure your wok is searing hot, and then add the Shaoxing wine. Stir-fry for another minute.

4. Next, add the snow peas and leafy greens to the wok and cook until the greens are just wilted. Then add your noodles. Make sure that before you add them, they're somewhat loose and not all clumped together (you can rinse them in warm water to loosen them up before adding them to the wok).

5. Pour your sauce mixture over the noodles and stir-fry until the color of the noodles are uniform. A folding or scoop-and-lift motion works well for that. Once everything is well-combined, dish out the noodles and serve.



PET(S) OF THE MONTH

Congratulations to Paola and Esteban, proud parents of Kori and Tito, MSB's newest canine cuties.





WHAT TO DO IF YOU TESTED POSITIVE FOR COVID-19

If you test positive for COVID-19, follow CDC guidance, including isolating for at least five days and wearing a mask for at least 10 days. Wear a mask for longer if you continue to test positive or have new or worsening symptoms.

Notify your close contacts. Keep your health-care provider updated. Students, contact the Dartmouth College Health Service at dicks.house.nurse@dartmouth.edu or 603-646-9440. People without an established health-care provider, read <https://dartgo.org/health-guidance>



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