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To: biochem_universe@lists.colorado.edu
Subject: Biochemistry Newsletter for March
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University of Colorado Boulder Department of Biochemistry

Biochemistry Graduate Newsletter

FRIDAY March 10, 2023



Join our [Slack Workspace](#) for more frequent updates.



Got suggestions? Drop them into the [FLC suggestion box](#).



Consult our [Google Calendar](#) to see what's happening.

This newsletter is unofficial and run by graduate students. We hope it comes in handy!

Sorry for some of the delays the past couple months, most of our team is preparing for orals right now! We should be back on track for April!

Since we're only able to include the publications, achievements, and new departmental colleagues we know about, these lists may be incomplete. Please [send us a tip](#) if you have an event, opportunity, or piece of news you'd like to see featured in our next newsletter.

We are looking for new additions to the newsletter team. If you have any interest in science communication or want experience writing HTML, reach out to Rosie Garris (rosanna.garris@colorado.edu)

News & Announcements

S.C.O.P.E. is gearing up for another great semester full of outreach opportunities and fun science experiments! If you are interested in volunteering for the Spring semester and/or assisting the board members with curriculum development, visit our [website sign-up form \(https://www.colorado.edu/outreach/scope/content/volunteer-sign\)](https://www.colorado.edu/outreach/scope/content/volunteer-sign) to indicate your interests. If you have any other comments or questions do not hesitate to contact us at scope@colorado.edu.

As always, check out our website to learn more and sign up to stay in the

loop about all things S.C.O.P.E.!

Spring event info: May 1st, 8th, 15th and 22nd at Timberline PK-8 (30 min drive from CU - carpooling will be set up)

We have three new high-speed, floor centrifuges (Avanti JXN-26) and new rotors in SIP, replacing 3 of our over-25-year-old floor centrifuges. Get started using them and don't forget to cite the grant we bought them with (R24 OD033699-01).

Feel free to use the newsletter as a virtual version of the JSCBB bulletin boards. If you have any information you'd like to share with the department, please [let us know](#).

Upcoming Events

Research Discussions

[Biophysics Supergroup](#)

[Zoom Link](#) (Meeting ID: 999 6965 7587, Password: BIOPHYSICS)

Monday, April 3, 4 - 5:30 pm, JSCBB A115, Kaar & Niswander Labs
Followed by Pizza and Refreshments

[Signaling & Cellular Regulation](#)

[Zoom Link](#) (Meeting ID: 995 4820 8323, Password: SCR2022)

Monday, March 13, 4 - 5:30 pm, JSCBB B115 Goodrich/Kugel & Brumbaugh Lab
Monday, April 10, 4 - 5:30 pm, JSCBB B115 Spencer & Copley Labs

Electron Microscopy Users Supergroup

The EM Users meeting is open to all who are interested. Presentation topics include methods and current EM research going on in the CU Boulder EM community.

Usually takes place the last Wednesday of the month at noon.

Email Alli Schier (Allison.Schier@colorado.edu) to be added to the email list.

Biochemistry Seminars

Information regarding Biochem seminars can be found on the department [events page](#)!

Dr. Yamuna Krishnan | University of Chicago

March 15, 2023 | 3:30pm-4:45pm | In-person/A115 Butcher Auditorium
[Lab Website](#)

Synopsis: The Krishnan lab works on developing an imaging platform that uses short DNA duplexes of ~20-30KDa to chemically map lumens of

organelles and build quantitative chemical maps. The lab has discovered the first example of a lysosomal Ca²⁺ importer in the animal kingdom.

Dr. Carol Greider | UC Santa Cruz

March 22, 2023 | 3:30pm-4:45pm | In-person/A115 Butcher Auditorium

[Lab Website](#)

Synopsis: The Greider lab uses human and yeast cells to study the mechanisms that establish and regulate telomere length. The lab has covered a variety of research related to telomeres with recent publications focusing on telomere terminal transferase activity and telomerase activity.

Dr. Dave Pagliarini | Washington University St. Louis

March 29, 2023 | 3:30pm-4:45pm | In-person/A115 Butcher Auditorium

[Lab Website](#)

Synopsis: The Pagliarini lab works on the mitochondria to identify and characterize mitochondrial proteins, mutations that contribute to disease, and develop/explore novel therapeutics to rectify these diseases. The lab has also worked to map the locations of these proteins and studies disorders involving coenzyme Q to augment endogenous CoQ levels.

Dr. Michael Laub | Michigan Institute of Technology

April 5, 2023 | 3:30pm-4:45pm | In-person/A115 Butcher Auditorium

[Lab Website](#)

Synopsis: The Laub lab works to understand toxin-antitoxin systems and other immunity mechanisms in bacteria as well as gaining insight to the molecular basis of protein evolution/coevolution of interacting proteins. The lab uses computational analyses, and genome-scale approaches like RNA-seq.

Publications and Achievements

Accomplishments

Annette's NIH S10 (BIG) application to acquire a new Typhoon 5 is awarded . SIP will have a new Typhoon 5 with two IR channels in addition to the RGB fluorescence channels and the phospho imaging as soon as Cytiva can deliver. If you have questions or want to start planning your new and exciting fluorescence imaging using the IR channels contact Annette(erbse@colorado.edu). She is happy to help and can't wait to see what you all can do with the new possibilities!

Science Buffs

From space missions to minuscule microbes, Science Buffs is a graduate student-run STEM blog covering research at the University of Colorado Boulder and beyond. We are committed to making science more accessible to the general public and helping students and postdocs grow as writers. Learn more about us and getting involved at <https://sciencebuffs.org/>.

Updates from the Faculty Liason Council

FLC will be meeting this month, the day is to be determined. An agenda will be posted to the slack beforehand. We're still hoping to host the next social hour in early April.

As always, the department anonymous suggestion box can be found [here](#).

Updates from P2P

P2P will be hosting a Proposal Help Night, similar to last semester, where mentors will work with their mentees to figure out the details of their full Core proposals. We strongly encourage all students in Core to attend Proposal Help Night! This is a great time to get feedback on your experimental design! We are working with the Core professors now to schedule a time that will be most useful to you all. Be on the lookout for an email with an exact date, but we anticipate that the Proposal Help Night will be in mid-April. As always, there will be free food!

P2P will also be hosting an in-person Alumni Network event in late April to introduce current members of the department to alumni in the area. There will be free food (and dare we say, free beer?) and lots of people to network with. We are currently working on the best date and time to hold this event, but be on the lookout for fliers and emails in the coming weeks.

Post-Doc Association Events and Announcements

PAC Social Hour is happening next week!

Date: Thursday March 16

Time: 5:30–7:30 p.m.

Location: Rayback Collective. 2775 Valmont Rd, Boulder, CO 80304

Means of Communication:

Twitter: [@PACBoulder](#)

Email: pac_universe@colorado.edu

Click "I'm interested" in this [calendar link](#) to have updates emailed to you.

Outreach and Teaching Opportunities

Updates from the Center for Teaching and Learning

If you are TAing a class this semester, would like to earn a teaching certificate, or are simply interested in improving your teaching skills, the Center for Teaching and Learning (CTL) is here to help! Please don't hesitate to reach out to the departmental CTL Lead, Briana Aboulache (Briana.Aboulache@colorado.edu) for resources and information to help you achieve your teaching goals.

If you are interested in receiving teaching announcements throughout the year, please fill out this [form](#) to receive periodic teaching-related emails. You can check out the CTL certificates [here](#), track your certificate [progress](#), and find all upcoming CTL workshops/events [here](#).

Updates from SCOPE

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As always, check out our [website](#) to learn more and sign up to stay in the loop about all things S.C.O.P.E.! Also, take a look at our 'how to think like a scientist' cards in case you need help with your research projects.

How to think like a scientist:

1. Make an **observation**
2. Ask a **question**
3. **Predict** the answer
4. **Test** your prediction
5. Think about your **results**
6. Ask a **new question!**



Brought to you by S.C.O.P.E. at CU Boulder

If you have an outreach opportunity you're excited about, please [let us know](#) so we can share it in the next newsletter.

Resources and Involvement Opportunities

Consolidated list of resources from the Office of Financial Aid

This comprehensive [list of crisis resources](#) provides free tools for dealing with wellness, health, financial hardship, and other challenges.

Incident Reporting Resources

Follow this [link for resources and support](#) in reporting concerns or incidents that you are aware of.

Center for Teaching and Learning (formally GTP)

To learn about CTL, visit their [website](#) or contact the department CTL lead [Chelsea Toner](#).

Counseling & Psychiatric Services (CAPS)

[CAPS](#) offers confidential, on-campus mental health and psychiatric services for a variety of concerns such as academics, anxiety, body image, depression, relationships, substance use and more. CAPS is available for in person and telehealth (virtual) appointments from 9 a.m. to 5 p.m. Monday through Friday. All

services will be held virtually through telehealth.

Services offered include counseling, psychiatry, workshops, process therapy groups, skill-based therapy groups, informal consultations, suicide prevention, eating concerns, ADHD treatment, addressing substance use, canine-assisted therapy, and virtual reality therapy.

oSTEM (Out in Science, Technology, Engineering, and Math)

To learn more about oSTEM, visit their [website](#) or attend their [weekly meetings](#) on Mondays at 6:00 pm.

Buff Pantry

CU Boulder students can pick up food from Buff Pantry on a weekly basis. Visit their [website](#) for details.



United Campus Workers

To join or get more involved in UCW, visit their [website](#).



CU Café

To learn more or get involved in CU Café, visit their [website](#).



Women in Science and Engineering (WiSE)

To join or get more involved with WiSE, visit their [website](#) or contact [Katelyn Long](#).