



BMB News and Highlights

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Recognition and Shout Outs

Dr. James Bamburg, Commencement Speaker

Dr. James Bamburg first discovered his passion for research as an undergraduate student. In his senior year he joined a lab group studying complex carbohydrates. This experience combined with a class on microbial genetics set in motion the rest of Dr. Bamburg's career. He is now excited to share that story with the graduating class of the College of Natural Sciences – and, to encourage them to find and pursue their own passions.



Dr. Bamburg, who recently celebrated his 51st year at CSU, has had a storied career with many notable achievements. After graduating with his Ph.D. in 1969 and completing a post-doctoral research position at Stanford University Medical School, Dr. Bamburg began his career at Colorado State University in 1971 as an assistant professor in the Department of Biochemistry, becoming full professor in 1981. He served 5 years as the interim chair of the department and, later, 14 years as the director of the Program in

Molecular, Cellular, and Integrative Neurosciences, for each of which he received an Oliver Pennock Distinguished Service Award.

Among many awards and honors, Dr. Bamburg is the proudest of the Guggenheim Fellowship that he was awarded in 1978, the two Senior International Fellowships with the National Institutes of Health Fogarty Center in 1985 and 1992, receipt of CSU's two highest research awards, the Scholarship Impact Award in 2006 and the Established Individual Impact Award in 2015 and his recent recognition as a Fellow in the American Society for Cell Biology.

Dr. Bamburg is well known for his research that led to the first characterization of the ADF/Cofilin family of proteins. These proteins play a key role in the cell's cytoskeleton and have been linked to brain dysfunctions including stroke and dementia, as well as kidney disease and cancer. His work has resulted in publications that have been cited over 20,000 times.

This work continues today in Dr. Bamburg's lab.





*Timothy David finishes Motorcycle Road Racing season
with two top 5 Championships – Nice riding!!!*

Tim had a successful 2022 season racing with the Motorcycle Roadracing Association (MRA). Despite a bad crash and late season mechanical failure he brought home two top 5 championships.

4th Place overall in Modern Vintage GTU (bikes 15 yrs. and older under 600cc), and 4th Place overall in Modern Vintage GTO (bikes 15 yrs. and older, any displacement).

Special thanks to Dunlop Motorcycle Tires, LoudonClearDesigns, and Tait Carmody with 64degree Racing for making the 2022 season a fiscally reasonable endeavor.



Tim will be serving on the MRA Board of Directors as Rider Representative: Press and Communications for the 2023 season.

It's free to spectate, come out and watch! See Tim for details.



Publications

Well done Bamburg Lab!

- ❖ Tahtamouni LH, Alzghoul A, Alderfer S, Sun J, Ahram M, Prasad A, Bamburg JR. The role of activated androgen receptor in cofilin phospho-regulation depends on the molecular subtype of TNBC cell line and actin assembly dynamics. PLoS ONE 17(12) 2022: e0279746 <https://doi.org/10.1371/journal.pone.0279746>
- ❖ Minamide, LS, Hylton R, Swulius M, Bamburg JR. Visualizing cofilin-actin filaments by immunofluorescence and cryoEM. Essential steps for observing cofilactin in cells. Methods Mol Biol. 2023: 2593: 265-281. PMID: 36513938 doi: 10.1007/978-1-0716-2811-9_18



Department Happenings

❖ *Holiday Party*

The department holiday party was a hit, held on December 12th at the Gilded Goat Brewing Company - CHEERS EVERYONE!



❖ Commencement

CONGRATS TO ALL OUR FALL 2022 GRADUATES!!



Thank you to all the volunteers that make this moment special for all our students!

❖ Office Updates

- Please continue to use our two general email boxes for communication:
 - cns_bmb@mail.colostate.edu to communicate to the office for rooms scheduling, general questions and information.
 - cns-bmb_orders@mail.colostate.edu for ordering

❖ DEI Updates

- *January Queer Coffee* - The campus's **LGBTQIA+ Employee Network** organizes a monthly coffee break, and this month (on Fri Jan 27th) our event will be hosted jointly by **BMB Dept**, the Biology Dept, and CNS.



What is the LGBTQIA+ Employee Network? It's a networking and affinity space for Colorado State University employees that identify with the LGBTQIA+ community. It's open to faculty, staff, and graduate students. There is even a graduate student sub-group. The goal is to connect, communicate, celebrate, and advocate. [More info here.](#)

So, PRIDE people, come on by and get fabulously caffeinated! I want to extend a big welcome to those who are sometimes on the margins of the PRIDE community - new, questioning, not sure if you "count" as LGBT, or haven't engaged with the community before - this is a really friendly first step.

Also, I often get questions - I'm straight but want to be a strong ally. Maybe this group isn't for me, but what can I do? Well, good news for you, too! BMB will host a [SAFE ZONE Workshop](#) later in the semester with details to come. And there are loads of events and celebrations this semester (and into June) advertised through the [PRIDE CENTER](#).

- *Safe Zone Training workshop* with conflict resolution center as well as talks on resolution and prevention. A subcommittee of graduate students will be offering some workshops and learning about gay and transgender experience -
- *STEM Mentor Maggie Werner Washburne coming to campus* to provide a joint GCIM/BMB IDEA talk/discussion on mentoring diverse students, postdocs and faculty inclusively and meeting Monday, March 6, 2023.

❖ Department 5-year review

- Biochemistry is preparing for the 5-year program review.

❖ CNS Strategic Plan

- CNS Strategic Plan - (see <https://www.natsci.colostate.edu/about/strategic-plan/>)

Graduate Student News

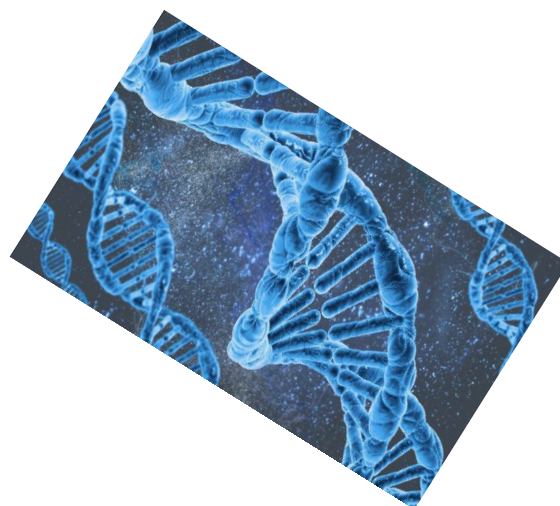
- ❖ Recruitment is under way for our next PhD candidates' interviews beginning February 24th and events continue thru February 25th.
- ❖ February 9th deadline for your intent to graduate form GS25.



❖ Thursday afternoon Club (RAC) has begun for Spring 2023

Come learn about the exciting research going in BMB

RAC 2023	
Date	Lab
19-Jan	Cohen Lab
26-Jan	Hansen Lab
2-Feb	Stargell Lab
9-Feb	Nishimura Lab
23-Feb	Bamburg Lab
2-Mar	DeLuca Lab
9-Mar	Ho Lab
16-Mar	<i>Spring Break</i>
23-Mar	Ross Lab
30-Mar	Schauer Lab
6-Apr	Di Pietro Lab
13-Apr	Stasevich Lab/ O'Neil Presenting
20-Apr	Santangelo Lab
27-Apr	Yao Lab
4-May	Markus Lab
11-May	Chanda Lab
18-May	Peersen Lab
25-May	Swygert Lab



Undergraduate News

- ❖ The CSU Scholarship Applications is open for submissions
 - October 1st thru March 1st, for [more information](#).
- ❖ Biochemistry Club Student Association
 - First semester meeting January 25th, 2023 5:00 PM AZ E210

Upcoming Events

❖ Droplet Digital PCR seminar

We would like to invite you to attend a seminar on Droplet Digital PCR (ddPCR) technology presented by Katie Orban, PhD, Field Application Scientist for Bio-Rad Laboratories. The agenda includes an introduction to the technology, workflow, applications, how to transition from qPCR and the instruments available to you through the Molecular Quantification Core.

Two seminars will be offered:

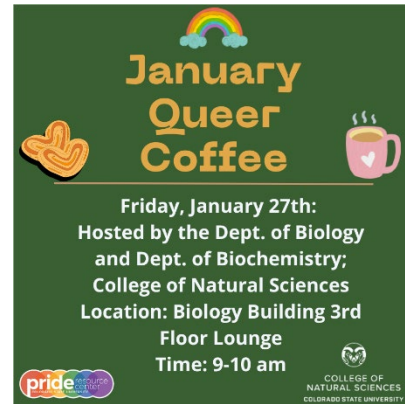
- Monday, January 23, 12 – 1pm, Main Campus, Pathology 103



- Wednesday, January 25, 12 – 1pm, Foothills Campus, CVID 106

Following each seminar, we will host office hours from 1 – 3pm for one-on-one conversations about your specific project ideas.

Please [RSVP](#) to ensure that lunch will be provided for you.



January 25th – BCSA 5 PM AZ E210

February 23, 24th 2023 - Grad Recruitment

March 20th - Woody Lectureship: Dr. Jennifer Lippincott-Schwartz

Summer 2023 - Art Show at the Curfman Gallery in memory of Dr. Fahrney

