

# UPBM E-Newsletter

Undergraduate Program in Biology and Medicine



Can you believe it's already November?

We are coming right up to the end of the semester so stay motivated everyone! You've got this!

As always, if you have any news to share, we'd love to hear it and put it in future editions of the newsletter. Email any submissions to [marcella.sherlock@rochester.edu](mailto:marcella.sherlock@rochester.edu)

## Quick Links

- \* [UPBM Website](#)
- \* [UPBM E-News Archive](#)
- \* [Department Website](#)
- \* [Department Contact Information](#)

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## Society of Undergraduate Biology Students

### Halloween Trick or Treat

SUBS got spooky this year when they held their annual Halloween Trick or Treat event. On October 31st students were able to go around to different professor's offices and get some sweet treats. If you visited every professor and got a signature you were able to win a prize! Thank you everyone for attending, it was a blast!



### Upcoming Events

#### TGIF

Join SUBS along with the Department of Biology to start your weekend off right. On November 22nd at 4 p.m. head on down to the Green Lounge in Hutchison Hall to mix and mingle with your favorite professors! Food and drinks will be provided.

#### Pizza Break

Details coming soon!

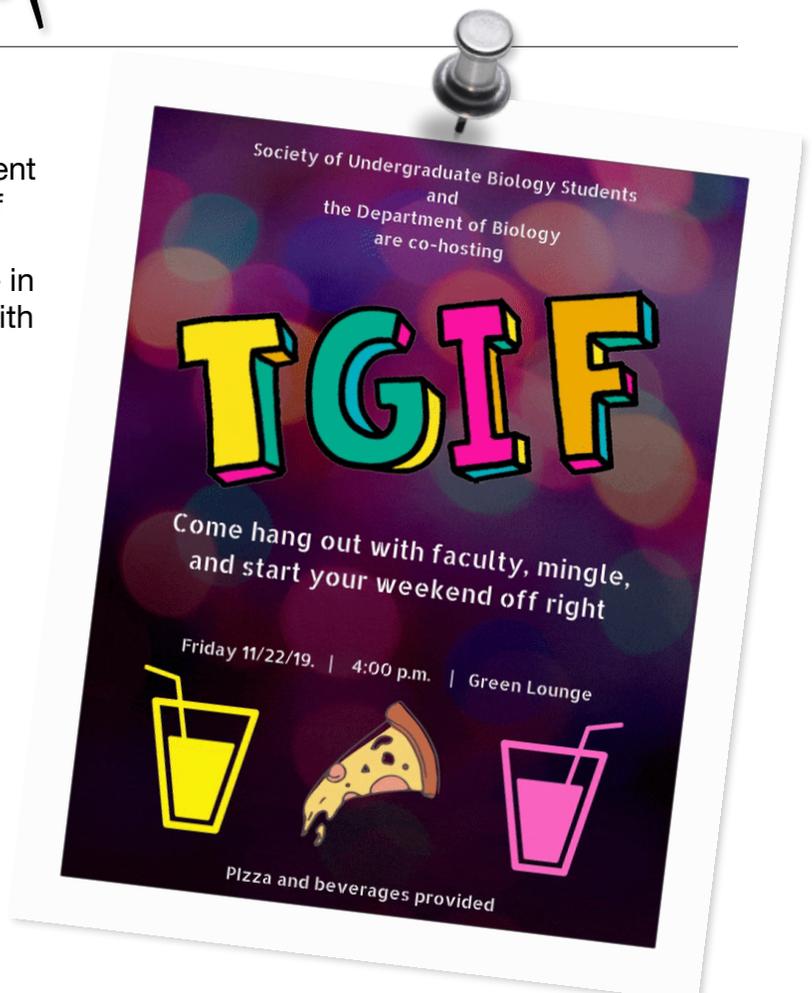
#### Summer Internship Seminar

Details coming soon!

#### Freshman Representative Applications

Details coming soon!

Follow [SUBS on Facebook](#) to keep up to date with all their upcoming events!



## Using Science to Create Art

Nacre, also known as mother-of-pearl, is an extremely tough material produced by certain mollusks. It is their inner shell layer, as well as the outer layer of pearls. Dr. Anne Meyer has invented a way to synthetically produce this material that is both inexpensive and environmentally friendly. The composition uses bacteria which helps the artificial material retain the toughness of natural nacre, while also being bendable.

Allison Newsome, an artist, recently reached out to Anne to use this material in her upcoming art piece. The finished piece is called “Pearl” and is a rain-harvesting sculpture, also known as a RainKeep. No surface treatment was used, meaning just like the nacre, the piece had the environment in mind. The piece was on exhibition at a Bioneer Conference in October. Bioneer is a non-profit that focuses on “breakthrough solutions for restoring people and the planet.”

To see more of [Allison Newsome’s art pieces](#), visit her website.

To read more about Dr. Anne Meyer’s work on nacre, as well as other things happening in the [Meyer Lab](#), visit her website.



[\(provided photo / Anne S. Meyer\)](#)

## Biology in the News

### Rediscovery of the Mouse Deer

A species once thought to be nearly extinct has been rediscovered in the jungles of Vietnam. The *Tragulus versicolor*, also known as the Silver-backed Chevrotain or Mouse deer, has had no confirmed sightings since 1990. That is until now.

An Nguyen is a Vietnamese biologist who works with the Global Wildlife Conservation. She also is a PhD student at the Leibniz Institute for Zoo and Wildlife Research. Together with Barney Long and Andrew Tilker, the three scientists consulted villagers from Nha Trang about any reported sightings. They set up motion-activated cameras in the surrounding woods to try and capture anything.



This proved useful as they were able to capture photos and video of the species. Tilker, however, did issue out a warning to others. He said that “just because we found this species relatively easily doesn’t mean it is not threatened.”

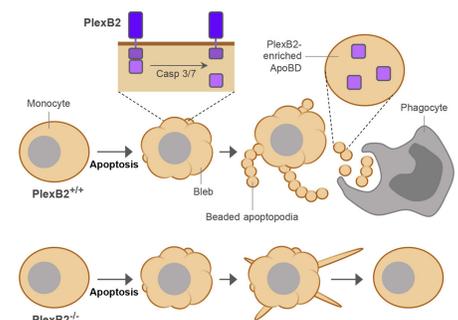
Information taken from [“Vietnam deer rediscovered after nearly 30 years”](#)

### Cells Control How they Die

Researchers at La Trobe University have discovered how white blood cells are able to control the final moments leading up to their death and this aids in their removal from the human body.

Ivan Poon, a cell biologist and Associate Professor at the La Trobe Institute of Molecular Science, in collaboration with other scientists, looked at dying cells. They were able to identify the Plexin B2 protein, which is responsible for coordinating an important stage of apoptosis, also known as cell death. They were able to identify the function of this protein when they used CRISPR, which is a gene-editing technology, to delete it from white blood cells.

Dr. Georgia Atkin-Smith, the lead researcher on the project, explained that they were trying to find out why white blood cells die so dynamically. The research they have done shows that the Plexin B2 protein is the molecule that triggers this event. Without the protein, the cells won’t form beaded structures when they die, which hinders their ability to be removed from the body by phagocytes.



This research has helped scientists understand the underlining causes of certain inflammatory diseases, due to the cell death defect being a cause.

Information taken from [“Cells control their dance of death”](#)

## Important Dates

November 15th: Last day to withdraw from courses. Last day to declare S/F for seniors, juniors, sophomores, or second-semester first-years.

November 27th: Thanksgiving recess begins at noon.

December 2nd: Classes resume

December 4th: Final day for first-semester first-years and transfer students to declare S/F for courses

December 11th: Last day of classes

December 12th - 14th: Reading period

December 15th - 20th: Final Exams

December 20th: Winter Recess begins

## Upcoming Events

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### Biology Seminars

November 15th: Dr. Beatriz Navarro Dominguez, University of Rochester

November 18th: Dr. Mia Levine, University of Pennsylvania

November 22nd: Dr. Jacob Landis, University of California, Riverside

November 25th: Drs. Kaye Thomas and Yurong Gao, URM

November 26th: Dr. Edmund Lalor, University of Rochester

December 2nd: Dr. Xin Li, URM

December 6th: Dr. Brian Counterman, Mississippi State University

December 9th: Dr. Nicole Crown, Case Western Reserve University

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### Other Events

November 19th: **Education Abroad General Information Meeting**

Location: Wilson Commons, Gowen Room

Time: 1:00 p.m. to 2:00 p.m.

Learn the basics of how to study abroad: program opportunities, internships, scholarships, and more.

November 19th: **Fulbright General Info Session**

Location: Dewey Hall, Career Center Conference Room 4-200

Time: 1:00 p.m. to 2:00 p.m.

Learn more about the Fulbright U.S. Student Program, which provides grants for study/research projects.



# The Greene Center for Career Education and Connections

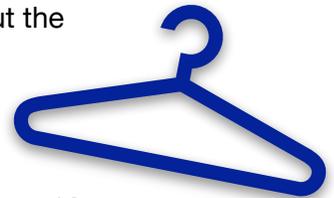
## Handshake

Handshake is an online resource that allows you to find internships or other employment opportunities in whatever field you are interested in. It allows you to see what companies are coming to campus to recruit or do interviews. Handshake also allows you to connect with alumni and expand your network.

Visit this link to sign-up for [Handshake](#)

## Career Clothing Closet

Have an interview coming up soon? What about a presentation? How about the start of a new internship? The Greene Center is here to help you dress for success for whatever professional event you may have coming up. They have a wide selection of clothing to choose from including dress pants, skirts, belts, ties, jewelry, and button-down shirts.



The Career Clothing Closet is located in Lattimore 124. Hours of operation are 10 a.m. - 4 p.m. Monday - Friday. You can set up an appointment by calling (585) 275-2366, sending an email to [careercenter@rochester.edu](mailto:careercenter@rochester.edu), or through [Handshake](#).

## Class of 2020 Senior Slideshow

Calling all seniors! Get ready to relive the glory days during commencement. During the Biology Department Diploma Ceremony there will be a slideshow showcasing the graduating class. That can't happen without your photos. Please submit your photos to [marcella.sherlock@rochester.edu](mailto:marcella.sherlock@rochester.edu)



## Undergraduate Opportunities

Alaskan Observers North Pacific Ground Fish Observer

[North Pacific Ground Fish Observer Position Openings](#)

Albert Einstein College of Medicine

[Summer Undergraduate Research Program](#)

*\*Deadline to apply 2/1/20*

Amgen Scholars

[Amgen Scholars Program](#) *\*Deadline to apply 2/3/20 or 2/15/20 (dependent on program)*

Case Western Reserve University

[Summer Programs](#)

Cincinnati Children's Hospital

[Summer Undergraduate Research Fellowship \(SURF\)](#) *\*Deadline to apply 2/1/20*

City Internships

[Program Overview](#)

Cleveland Clinic Center for Reproductive Medicine

[Summer Mentorship Program](#) *\*Deadline to apply 3/13/20*

Cold Spring Harbor Watson School of Biological Sciences

[Summer Undergraduate Research Program](#)

*\*Deadline to apply 1/15/20*

Cornell University

[Boyce Thompson Institute for Plant Research Internships](#) *\*Deadline to apply 2/1/20*

Davis Projects for Peace

[Kathryn W. Davis Projects For Peace](#)

Deutscher Akademischer Austausch Dienst (DAAD)

[Paid Research Internships in Germany](#)

*\*Deadline to apply 12/15/19*

EPA Internships

[Medical Research and Health Science Internships Available in Europe!](#)

Fulbright Scholarship

[US Student Program](#)

Gerstner Sloan-Kettering

[Summer Undergraduate Research Program](#)

*\*Deadline to apply 2/3/20*

GEHI

[Ghana Health and Education Initiative](#)

Goldwater (Barry) Scholarship

[Scholarship & Excellence in Education Program](#)

Harvard School of Public Health

[Summer Program in Biological Sciences Public Health](#) *\*Deadline to apply 2/1/20*

Hutchinson (Fred) Cancer Research Center

[Internships in Scientific Research or Medicine Summer Undergraduate Research Program](#)

*\*Deadline to apply 1/10/20*

Institute for Health Metrics and Evaluation (IHME)

[Post-Bachelor Fellowship](#) *\*Deadline to apply 1/6/20*

Journal of Young Investigators

[Article Submission Requirements](#)

Louisiana University Marine Consortium

[Research Experience for Undergraduates](#)

*\*Summer 2020 details coming soon*

MATCH Education

[Teacher Residency](#) *\*Priority deadline 12/2/19*

Mayo Clinic

[Summer Undergraduate Research Fellowship](#)

*\*Deadline to apply 2/1/20*

MedLife

[Student Opportunities](#)

Michigan State Veterinary

[Enrichment Summer Program](#) *\*Deadline to apply*

*1/31/20*

National Collegiate Research Conference (NCRC)

[NCRC 2018 Applications](#) *\*Deadline to apply 12/1/19*

Nemours/Alfred I. duPont Hospital for Children  
and Nemours Office of Health Equity and  
Inclusion

[Summer Undergrad Research Scholarship](#)

*\*Deadline to apply 1/15/20*

One Heart Source

[Volunteer Opportunities in Africa](#)

PIRG - Job Openings for Graduating Seniors  
[Jobs](#)

Roswell Park Cancer Institute

[Summer Research Experience Program in](#)

[Cancer Science](#) *\*Deadline to apply 1/17/20*

Stowers Institute for Medical Research

[Stowers Summer Scholars](#) *\*Deadline to apply*  
*2/3/20*

Southern Teaching Agency

[Spring Job Fairs](#)

SUNY Oswego Global Laboratory

[Summer Science Research Abroad](#)

Teach for America

[Opportunities](#)

Texas Tech University Health Sciences Center

[Summer Accelerated Biomedical Research](#)  
[Internships](#)

The UNCF Merck Science Initiative

[Science Scholarships and Fellowships](#)

University of Iowa

[Summer Undergraduate MSTP Research](#)

[Program](#) *\*Deadline to apply 1/21/20*

University of Michigan

[Summer at Michigan for Undergraduate Research](#)

[Training](#) *\*Deadline to apply 1/17/20*

University of Missouri

[MU-ARTSS Internship](#) *\*Deadline to apply 2/16/20*

University of Notre Dame Environmental  
Research Center

[Research](#)

University of Rochester

[deKiewiet Summer Fellowship](#) *\*Intent to apply*

*due 3/2/20. Subsequent documents due 3/16/20*

[Research Initiative Award for Undergraduates](#)

*\*Deadline to apply 11/22/19*

[Udall Undergraduate Scholarship](#) *\*First deadline*  
*due 11/25/19*

[Undergraduate Research Exposition \(URE\)](#)

*\*Deadline to apply 3/1/20*

University of Texas South Western

[Amgen Scholars Program](#) *\*Deadline to apply*

*2/3/20*

[Summer Undergraduate Research Fellowship](#)

[SURE](#) *\*Deadline to apply 2/3/20*

University of Utah

[Summer Program for Undergraduate Research](#)

[\(SPUR\)](#) *\*Deadline to apply 1/26/20*

University of Virginia / Mountain Lake Biological  
Station

[Summer Research Experiences of](#)

[Undergraduates](#) *\*Deadline to apply 2/20/20*

Upstate Medical University

[Summer Undergraduate Research Fellowship](#)

*\*Deadline to apply 2/3/20*

West Virginia University Center for Neuroscience

[Summer Undergraduate Internship SURI Program](#)

The Woodrow Wilson National Fellowship  
Foundation

[Teaching Fellowships](#)

World Teach

[Programs](#)

Yale Autism Center of Excellence

[Yale Fellowship in Developmental Neuroscience](#)

[of Autism](#) *\*Deadline to apply 1/15/20*

## Graduate Studies

Albert Einstein College of Medicine  
[Biomedical Sciences](#)

Arizona State University  
[Science and Technology Policy](#)

UC Berkley  
[Metabolic Biology](#)  
[Molecular Toxicology](#)

Cedars-Sinai Medical Center  
[Ph.D. in Biomedical and Transitional Sciences](#)

Cornell University  
[Ecology & Evolutionary Biology](#)

Duke University  
[Neurobiology](#) | [Program in Genetics & Genomics](#)

George Washington University  
[Environmental Resource Policy Program](#)

Harvard Medical School  
[Master of Medical Science in Immunology](#)

Harvard-School of Public Health  
[Ph.D. Program in Biological Sciences in Public Health](#)

Icahn School of Medicine at Mount Sinai  
[Graduate School of Biomedical Sciences](#)

Indiana University  
[Biochemistry Graduate Program](#)

Louisiana State University  
[Biological Sciences Pharmacology & Experimental Therapeutics](#)

Michigan State University  
[College of Veterinary Medicine Graduate Programs](#)

Penn State College of Medicine  
[Ph.D. Programs](#) | [MS Programs](#)

Salisbury University  
[Master of Science in Applied Biology](#)

Seton Hall University  
[MS Biology](#) | [MS Microbiology](#) | [Ph.D. Molecular Bioscience](#)

St. Jude Graduate School  
[Biomedical Sciences](#)

Stowers Institute for Medical Research  
[Stowers PhD Program](#)

Stony Brook University  
[Neuroscience Masters and Ph.D. Program](#)

Texas Tech University  
[School of Biomedical Sciences](#)

University at Buffalo  
[Ph.D. Biomedical Science](#)

University of California, Los Angeles  
[Ecology & Evolutionary Biology](#)

University of Colorado  
[Structural Biology & Biochemistry Program](#)

University of Iowa  
[College of Medicine Degree Programs](#)

University of Maryland  
[Biophysics Program](#)

University of Massachusetts Dartmouth  
[Marine Science and Technology](#)

University of Michigan  
[Medical School Program](#)

University of Pennsylvania  
[Graduate Program in Biology](#)

University of Pittsburg  
[Biological Sciences Programs](#)

University of Rochester  
[Graduate Program TEAM-BMTD](#)  
[Department of Biostatistics and Computational Biology](#)

University of South Florida  
[Graduate Programs](#)

University of Texas South Western  
[Biomedical Sciences Programs](#)

University of Utah  
[Bioscience Programs](#)

University of Virginia  
[School of Medicine](#)

Upstate Medical University  
[Graduate Studies | M.D./Ph.D.](#)

Van Andel Institute  
[Ph.D. in Molecular and Cellular Biology](#)

Vanderbilt University  
[Neuroscience Graduate Program](#)

Virginia Tech  
[Molecular and Cellular Biology Ph.D. Program](#)

Watson School of Biological Sciences  
[Ph.D. Program](#)

Wake Forest University  
[M.S. and Ph.D. in Biology](#)

## Helpful Links

- \* **Athletics**
- \* **Biology Department**
- \* **Center for Excellence and Teaching**
- \* **Center for Study Abroad**
- \* **Counseling Center**
- \* **Dining**
- \* **Directory**
- \* **English Language Program**
- \* **The Greene Center for Career Education & Connections**
- \* **Facilities**
- \* **Journal of Undergraduate Research (JUR)**
- \* **Kaplan Test Prep and Admissions**
- \* **Libraries**
- \* **Multidisciplinary Studies Center**
- \* **Pre-Med and Allied Health Professions Advising**
- \* **Research Connections Newsletter**
- \* **Rochester Academy of Science**
- \* **Undergraduate Program in Biology and Medicine**
- \* **Undergraduate Research Office**
- \* **University Health Services**

## Feedback and Submissions

Have any interesting stories or events coming up you want featured in future newsletters? Please let us know! We would also love to hear your feedback so that we can improve upon future newsletters. You can email [marcella.sherlock@rochester.edu](mailto:marcella.sherlock@rochester.edu) with comments, questions, or concerns.

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