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
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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.
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 Leibnitze 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 underlying 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

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, URMC
November 26th: Dr. Edmund Lalor, University of Rochester
December 2nd: Dr. Xin Li, URMC
December 6th: Dr. Brian Counterman, Mississippi State University
December 9th: Dr. Nicole Crown, Case Western Reserve University

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, 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
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

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 SURF *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 Berkeley  
*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 Book 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 with comments, questions, or concerns.

UPBM e-news is produced by the Department Of Biology, Undergraduate Program in Biology & Medicine during the academic year. You are receiving this message as a member of the UPBM community. Please note that the opportunities noted in this issue are not an endorsement. Do not forward this newsletter to other distribution lists. If you are receiving multiple copies or believe this message was sent to you in error, please contact the UPBM Administrator.

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