Happy Fall UPBM!

Everyone has been hard at work making this semester a successful one. We’d like to highlight some of the amazing things that have been going on the past month.

Remember, we want to hear from you! Learned something interesting recently? Been recognized for your achievements? Let us know by emailing marcella.sherlock@rochester.edu and you could be featured in future newsletters!
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Student Spotlight: Rosie Flanagan

Rosie Flanagan is a Take 5 Scholar majoring in Molecular Genetics and English and American Literature. This past summer she went across the world on the trip of a lifetime to work with orangutans and other animals. Here’s what she had to say about her eye-opening experience:

“In June of this past summer, I had the eye-opening opportunity to volunteer with orangutans, one of our endangered cousins, in Borneo, Malaysia. I had loved orangutans for a while, and decided to take a trip across the world to help them. During this time, I worked at a rehabilitation facility for animals such as orangutans, sun bears, macaques, and crocodiles. As I lived in the Bornean rainforest, I was exposed to an environment I was very unfamiliar with. This proved challenging at first, as the constant insects (including the painful Tarantula Hawk wasp), the noisy gibbons, and nibbling rats were startling and left me constantly on-guard. Over time, I got used to everything and loved the still yet alive rainforest nights, with their bioluminescent fungi and vibrant carnivorous plants and animals.

During the day, I cleaned animal cages and provided them with food, as well as made enrichment materials to keep their minds sharp. Most of these animals had been in abusive situations, and the rehabilitation center sought to care for them and teach them until they were able to be released into the wild. While there, I learned about the harsh neglect and abuse that occur to orangutans and sun bears every day. I learned to keep my distance; we should want to see these animals in the wild, not cuddle with them - that’s the entire point. We can want to protect something even though we may not be able to hold it. I developed a greater appreciation for these animals as well as the people who work every day (with very little money) to protect them.

These animals' home is declining every second, and as orangutans are solitary creatures, they need much space to exist. There is so little rainforest left, and in Borneo and parts of Asia, it is largely due to the palm oil industry. I learned about the ways in which I can stop palm oil use in my own life, and encourage others to do the same. We have so much diversity of life on this planet, and we are connected to all of it. Please, let’s do something while we still can.”
UPBM Alumni Headed to the Hall of Fame

One of our very own is headed to the Hall of Fame, the Athletic Hall of Fame that is. Diane Jean Ulatowski Tibbetts '89 was inducted to the Rochester Athletic Hall of Fame on October 4th, 2019 during Meliora Weekend, along with 7 other alumni.

Diane is from Uncasville, Connecticut. She played volleyball and was a starter all 4 years that she was here. She helped guide the team to a UAA volleyball team championship in 1988. She was voted MVP and was also named to the First Team All-UAA. Besides these accomplishments, she was also named to the UAA's Silver and 30th Anniversary teams, as well as the All-Northeast Region team.

Off the court, Diane graduated with a B.S. in Microbiology. She earned her M.S. at the University of Connecticut. She started her career at Pfizer, Inc. in Animal Healthy Discovery but then moved over to more volunteer work. She’s helped with disaster relief, raised service dogs for Fidelco, and even gone on mission trips around the globe.

Congratulation’s Diane!

Head to the University of Rochester Athletics page to read more about the Athletic Hall of Fame inductees.

The Science of Scrub-Jays

Dr. Nancy Chen is an evolutionary biologist and an assistant professor of Biology here at the University. Every year she heads down to Venus, Florida to study and observe the Florida Scrub-Jay.

The Florida Scrub-Jay is the only species of bird native to Florida. They measure around 12 inches long and have a blue head and wings. The birds are non-migratory and are one of only 15 bird-species native to the United States.

Dr. Chen uses data that has been collected over 50 years to create family trees for the birds and develop pedigree simulations. This is a way to analyze how the birds’ genetic material has changed over the years due to loss of habitat. She just received a National Institute of Health Maximizing Investigators’ Research (MIRA) Grant to help with her research and to develop a better understanding of how this has implications on human genetics.

(University of Rochester photo / J. Adam Fenster)

Keep up the great work Dr. Chen!

Click here to read more about Dr. Chen’s work with Florida Scrub-Jays.
The Department of Biology made Meliora Weekend more interactive than ever this year. On Friday October 4th, the department set up shop in the Goergen Atrium and sent guests on a trip to learn about all things science.

Attendees first stop was the Welcome table to get their map. If they were able to get 6 stickers, they would win a prize. To obtain stickers, you needed to engage with 2 poster presenters, learn 3 things in the demo room, and learn 1 thing in the Ward room.

The research showcase (also known as the UPBM Poster Session) had a record number of participants this year, with 27 students presenting their findings. Students were able to engage and talk science with their professor’s, friends, and family. The list is as follows:

Nicholas Abraham ’21, BNS
Advait Athreya ’20, BMG/APM
Kamel Awayda ’20, BBC
Daniel Barnett ’20, BNS
Victoria Nadezhda Bela ’21, BMB
Sammy Cheng ’21, BMB

Hannah Cook ’21, BEB
Brandon Dexter ’20, BMG
Taylor Dontino ’20, BCD
Yidan Gao ’20, BMB/PSY
Gilbert Giri ’21, BCB
Qingyuan (Anna) Jia ’21, BMG
Madina Jumabaeva ’20, BMB
Deniz Kesmen ’20, BNS
Emily Laskey ’21, BBC/PSY
Yifei (Sylvia) Lin ’20, BIO
Zhengfeng Liu ’20, BMG
Shaopeiwen Luo ’20, BBC/BSB
Colleen Maillie ’20, BCB
Evelyn Matei ’21, BNS/BMB
Sherif Negm ’22, BBC
Melissa Proven ’20, BMB
Yong Soo (Simon) Ra ’20, BNS/CSC
Alexandre Trapp ’20, BCB
Austin Varela ’20, BCB/DSC
Amanda Waugh ’20, BMB/EMC
Brianna Zavala ’20, BMB

Click here to watch the UPBM Poster Session 2019 Slideshow
Garnish Scholar-Athlete Awards

Ten senior athletes were recognized on September 7th for their achievements in both athletics and academics. The Garnish Scholar Award is in memory of Lysle “Spike” Garnish, a former coach and athletic trainer for the University.

4 of these students are our very own UPBM majors:

- Michaela Burrell – Ecology and Evolutionary Biology
- Colleen Maillie – Computational Biology
- Garrett Renslow – Neuroscience and Psychology
- Jamison Seabury – Microbiology

To read more about the Garnish Scholar-Athlete Recipients visit the University of Rochester athletics page.

From RNA to APA

Knowing how to write effectively is invaluable to scientists. Katherine Schaefer, associate professor in the Writing, Speaking, and Argument Program and recipient of the 2019 Goergen Award for Excellence in Undergraduate Teaching, can attest to that.

Before moving over to the Writing, Speaking, and Argument Program in 2009 Schaefer started her career as an RNA biochemist. She then moved over to being an immunologist and then became an assistant professor in the Department of Gastroenterology and Hepatology.

“Scientists have to convey how they came up with their questions and really convey what they did in a convincing way that’s going to make the reader go, ‘Yeah, they did their research right. They did all the controls. That’s the theme of all of my teaching and all of my research these days.”

To learn more about Katherine, please visit Katherine Schaefer: A scientist who found the ‘write’ stuff.

To read more about The 2019 recipients of the Goergen Award for Excellence in Undergraduate Teaching, visit the University’s Newscenter webpage.
The Office of Undergraduate Research

Interested in doing research on campus but don’t know where to start? The Office of Undergraduate Research is here to help.

Find research opportunities that suit your needs by attending walk-in hours, making an appointment, or going through the Undergraduate Placement Program (UR-UPP).

The office can also help you identify different funding opportunities, both internal and external to the University. Examples include the de Kiewiet Summer Research Fellowship, the Research Initiative Award for Undergraduates, and the McNair Research Program.

To schedule an appointment, email undergradresearch@ur.rochester.edu. Walk-in hours are also available and vary by day.

To learn more, visit the Office of Undergraduate Research Getting Started Guide.

Course Registration Schedule

Registration for the Spring 2020 semester is fast approaching. Here are important dates to remember:

**Class of 2020**
8 a.m. November 4th – 7 a.m. November 5th

**Class of 2021**
8 a.m. November 5th – 7 a.m. Wednesday November 6th

**Class of 2022**
Wednesday November 6th
❖ DOB 10/1-12/31: 8 a.m. – 9:45 a.m.
❖ DOB 1/1-3/31: 10 a.m. – 11:45 a.m.
❖ DOB 4/1-6/30: Noon – 1:45 p.m.
❖ DOB 7/1-9/30: 2 p.m. – 3:45 p.m.
ALL members can register between 4 p.m. November 6th and 8 a.m. November 7th

**Class of 2023**
Thursday November 7th
❖ DOB 4/1-6/30: 9:45 a.m. – 11:30 a.m.
❖ DOB 7/1-9/30: 11:45 a.m. – 1:30 p.m.
❖ DOB 10/1-12/31: 1:45 p.m. – 3:30 p.m.
❖ DOB 1/1-3/21: 3:45 p.m. – 5:30 p.m.
ALL members can register after 5:45 p.m. and it will remain open.

Registration opens back up for the class of 2020, 2021, and 2022 at noon on Friday November 8th. Registration will remain open.

Pictured here: Teresa Long, Ann Robinson, and Arokoruba Cheetham-West
Important Deadlines

The spring semester is coming quicker than you think. Here are some important deadlines to consider:

**Independent Research 395 Courses**

The Spring 2020 course deadlines are as follows:

**4 Credit 395 Course**
- Must start course by **Friday 1/24**
- Submit online UPBM Pre-Registration form by **Friday 1/31**
- Submit online CCAS Independent Study form by **Friday 2/8**

**3 Credit 395 Course**
- Must start course by **Friday 2/7**
- Submit online UPBM Pre-Registration form by **Friday 2/14**
- Submit online CCAS Independent Study form by **Friday 2/21**

**2 Credit 395 Course**
- Must start course by **Friday 3/6**
- Submit online UPBM Pre-Registration form by **Friday 3/13**
- Submit online CCAS Independent Study form by **Friday 3/20**

**Honors in Research**
- Students must submit an Application for Candidacy by **Monday 3/2**.
  *Only open to seniors or T-5 students in their fifth year*

**de Kiewiet Summer Research Fellowship**

The Summer 2020 deadlines are as follows:
- Submit **Intent to Apply** by **Monday 3/2**
- Submit the following documents to **BioDeptUgOffice@ur.rochester.edu** by **Monday 3/16**
  - Formal Scientific Research Proposal (6 pages)
  - Relevant Professional Experience Summary (1 page)
  - Research and Career Goals Summary (1 page)
- Have research mentor and an additional faculty member email a letter of support to **BioDeptUgOffice@ur.rochester.edu** by **Monday 3/16**
- Have research mentor email **Statement of Authorship to BioDeptUgOffice@ur.rochester.edu** by **Monday 3/16**

**Class of 2020 Senior Slideshow**

Attention seniors! Submit your photos for the Class of 2020 Senior Slideshow, which will be shown during the Biology Department Diploma Ceremony. Take a trip down memory lane and reminisce on all the great times you had here in Rochester.

Please email all submissions to **marcella.sherlock@rochester.edu** in the UPBM office.

View the **Class of 2019 Senior Slideshow**.
October 2019

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

Amgen Scholars
Amgen-UROP Scholars Program

Amgen Scholars
Program Homepage

Case Western Reserve University
Summer Programs

Cincinnati Children’s Hospital
Summer Undergraduate Research Fellowship (SURF)

City Internships
Program Overview

Cleveland Clinic Center for Reproductive Medicine
Summer Internship Program

Cold Spring Harbor Watson School of Biological Sciences
Summer Undergraduate Research Program

Columbia University / Barnard College
Amgen Scholars Summer Research Program

Cornell University
Boyce Thompson Institute for Plant Research Internships

Council on Undergraduate Research
National Conference on Undergraduate Research (NCUR)

Davis Projects for Peace
Kathryn W. Davis Projects For Peace

Deutscher Akademischer Austausch Dienst (DAAD)
Paid Research Internships in Germany

Duke University / Robert Noyce
Teacher Fellowship Program

EPA Internships
Medical Research and Health Science Internships Available in Europe!

Fulbright Scholarship
US Student Program

Gerstner Sloan-Kettering
Summer Undergraduate Research Program

GEHI
Ghana Health and Education Initiative

Goldwater (Barry)
Scholarship & Excellent in Education Program

Harvard School of Public Health
Summer Program in Biological Sciences Public Health

Hutchinson (Fred) Cancer Research Center
Summer Undergraduate Research Program

Hutchinson (Fred) Cancer Research Center
Internships in Scientific Research or Medicine

Homeland Security DHS Education Programs
HS-STEM Summer Internship Program

Institute for Health Metrics and Evaluation (IHME)
Post-Bachelor Fellowship

Journal of Young Investigators
Author Guidelines Requirements

Louisiana University Marine Consortium
Summer Field Course Information

MATCH Education
Teacher Residency

Mayo Clinic
Summer Undergraduate Research Fellowship

MedLife
Volunteers

Michigan State Veterinary
Enrichment Summer Program

National Collegiate Research Conference (NCRC)
NCRC 2018 Applications
Nemours/Alfred I. duPont Hospital for Children and Nemours Office of Health Equity and Inclusion
Summer Undergrad Research Scholarship

One Heart Source
Volunteer Opportunities in Africa

PIRG - Job Openings for Graduating Seniors Jobs

Roswell Park Cancer Institute
Summer Research Programs

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

University of Michigan
Summer at Michigan for Undergraduate Research Training

University of Missouri
Summer Research Programs Cell and Molecular Biology Summer Research Positions

University of Notre Dame Environmental Research Center
Research

University of Rochester
Undergraduate Research Exposition (URE)

University of Rochester, RC Libraries
Research Initiative Award for Undergraduates

University of Rochester, UPBM
deKiewiet Summer Fellowship

University of Texas South Western
Summer Undergraduate Research Fellowship SURF

University of Rochester, RC Libraries
Research Initiative Award for Undergraduates

University of Rochester, UPBM
deKiewiet Summer Fellowship

University of Texas South Western
Amgen Scholars Program
Summer Undergraduate Research Fellowship SURF

University of Utah
Undergraduate Research Programs

University of Virginia / Mountain Lake Biological Station
Summer Research Experiences of Undergraduates

Upstate Medical University
Research Programs in Biomedical Sciences Fellowship Program

West Virginia University Center for Neuroscience
Summer Undergraduate Internship SURI Program

The Woodrow Wilson National Fellowship Foundation
Teaching Fellowships

World Teach Programs
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 I 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 I MS Programs

Salisbury University
Master of Science in Applied Biology

Seton Hall University

MS Biology I MS Microbiology I Ph.D. Molecular Bioscience

St. Jude Graduate School
Biomedical Sciences

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
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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