

UPBM E-Newsletter

Undergraduate Program in Biology and Medicine



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!

Quick Links

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

Table of Contents

<i>Student Spotlight: Rosie Flanagan</i>	<i>3</i>
<i>UPBM Alumni Headed to the Hall of Fame</i>	<i>4</i>
<i>The Science of Scrub-Jays</i>	<i>4</i>
<i>Department of Biology Scavenger Hunt and Research Showcase.....</i>	<i>5</i>
<i>Garnish Scholar-Athlete Awards</i>	<i>6</i>
<i>From RNA to APA</i>	<i>6</i>
<i>The Office of Undergraduate Research</i>	<i>7</i>
<i>Course Registration Schedule.....</i>	<i>7</i>
<i>Important Deadlines.....</i>	<i>8</i>
<i>Independent Research 395 Courses.....</i>	<i>8</i>
<i>Honors in Research.....</i>	<i>8</i>
<i>de Kiewiet Summer Research Fellowship.....</i>	<i>8</i>
<i>Class of 2020 Senior Slideshow</i>	<i>8</i>
<i>Undergraduate Opportunities</i>	<i>9</i>
<i>Graduate Studies</i>	<i>11</i>
<i>Helpful Links.....</i>	<i>12</i>
<i>Feedback and Submissions.....</i>	<i>13</i>
<i>Contact Us</i>	<i>13</i>

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

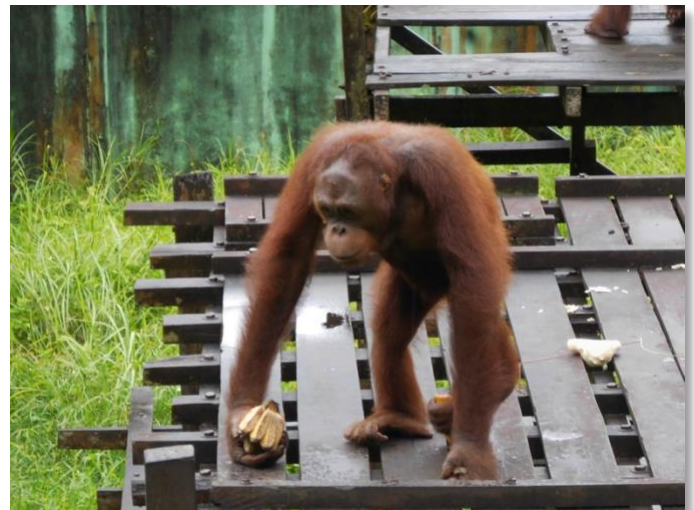
these animals had been in abusive situations, and the rehabilitation center sought to care for them and teach them until they were able to be

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](#).

Department of Biology Scavenger Hunt and Research Showcase

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](#).



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

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

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](#).

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 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

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 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.

Contact

Dr. Cheeptip Benyajati
Director of UPBM:
Email: cheeptip.benyajati@rochester.edu
Phone: 585-275-8040

Dr. Elaine Sia
Chair of Biology Department / Director of UPBM.
Email: elaine.sia@rochester.edu
Phone: 585-275-9275

Danielle Presgraves
Assistant Professor of Instruction / Associate
Director for Student Affairs
Email: danielle.presgraves@rochester.edu
Phone: 585-275-2634

Marianne Arcoraci
UPBM Program Manager & Curriculum Advisor
Email: marianne.arcoraci@rochester.edu
Phone: 585-275-3850

Allyson DeBoard
Undergraduate Course Coordinator
Email: allyson.deboard@rochester.edu
Phone: 585-275-5181

Marcella Sherlock
Undergraduate Secretary
Email: marcella.sherlock@rochester.edu
Phone: 585-273-3685



UNIVERSITY of
ROCHESTER