UPBM E-Newsletter

Undergraduate Program in Biology and Medicine



Picture taken by Connor Newman '19

Welcome back and Happy New Year!

We hope everyone had a relaxing and enjoyable winter break. We're glad to have you back.

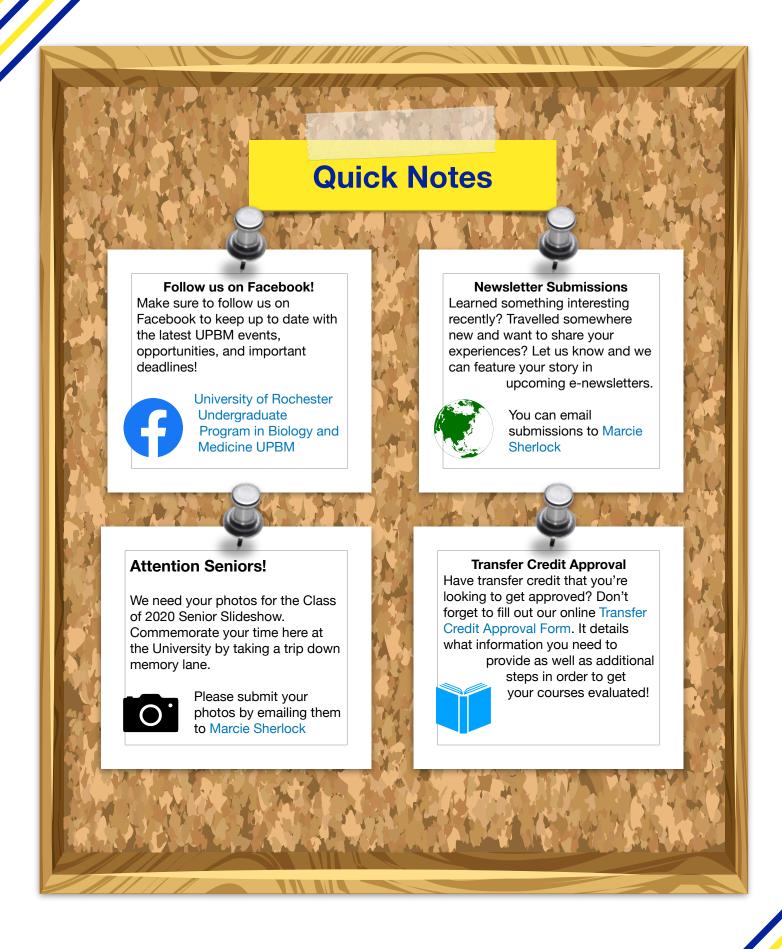
Don't forget that if you're looking to do summer research here or at other institutions, deadlines to submit applications are coming up fast!

Quick Links

- *** UPBM Website**
- *** UPBM E-News Archive**
- ***** Department Website
- * Department Contact Information

Table of Contents

Quick Notes	3
Spring 2020 Biology Seminar Schedule	4
Society of Undergraduate Biology	
Students	5
Education Abroad Photo Contest	6
Important Deadlines	7
Office of Undergraduate Research	8
Undergraduate Research Exposition	8
Discover Grant	9
The Greene Center for Career	
Education and Connections	10
Center for Excellence in Teaching and	
Learning	11
River Campus Libraries	12
Pathways to Research Opportunities	12
Opportunities	13
Graduate Studies	15
Helpful Links	16
Feedback and Submissions	17
Contact Us	17



List subject to change. Visit the <u>seminar schedule webpage</u> for the most up-to-date information

Spring 2020 Biology Seminar Schedule				
Friday 2/7/20	Dr. Felix Beaudry	University of Toronto	Hutchison 316 - 3 p.m.	
Friday 214/20	Dr. Robert DeSalle	American Museum of Natural History	Hutchison 316 - 3 p.m.	
Monday 2/17/20	Dr. Robert DeSalle	American Museum of Natural History	Lander Auditorium - Noon	
Friday 2/28/20	Dr. Corrie Moreau	Cornell University	Hutchison 316 - 3 p.m.	
Monday 3/2/20	Dr. Steve Horvath	UCLA	Lander Auditorium - Noon	
Friday 3/6/20	Dr. Emily Josephs	Michigan State University	Hutchison 316 - 3 p.m.	
Friday 3/13/20	Xiaolu Wei	University of Rochester	Hutchison 316 - 3 p.m.	
Friday 3/20/20	Emery Longan	University of Rochester	Hutchison 316 - 3 p.m.	
Friday 3/27/20	Nilima Walunjkar	University of Rochester	Hutchison 316 - 3 p.m.	
Friday 4/3/20	Zoë De Corte	University of Rochester	Hutchison 316 - 3 p.m.	
Friday 4/10/20	Jeremy Summers	University of Rochester	Hutchison 316 - 3 p.m.	
Monday 4/13/20	Dr. Nancy Moran	University of Texas at Austin	Lander Auditorium - Noon	
Friday 4/17/20	Rose Driscoll	University of Rochester	Hutchison 316 - 3 p.m.	
Monday 4/20/20	Dr. David Queller	Washington University in St. Louis	Lander Auditorium - Noon	
Friday 4/24/20	Lauren Gregory	University of Rochester	Hutchison 316 - 3 p.m.	
Monday 4/27/20	Dr. Andrew Gordus	Johns Hopkins University	Lander Auditorium - Noon	
Friday 5/1/20	Omid Saleh Ziabari	University of Rochester	Hutchison 316 - 3 p.m.	
Monday 5/4/20	Dr. Hyun Your	Delft University of Technology	Lander Auditorium - Noon	

Society of Undergraduate Biology Students

Mission Statement: Members of our group could enjoy the robust connection with professors not only through research panels, but also through activities such as professor luncheon and professor volleyball. Protean research expo and panels will be offered to allow our members to get in touch with frontier science and research opportunities. Peer advisors, TAs, and even professors are available in our weekly study group for our members. Gaining a membership would also be eligible for research shadowing program.

To join and get involved, please visit their website

Upcoming Events in Spring 2020

February:

Professor Lunch Biomanufacturing Panel

March:

Professor Research Panel

April:

BRAW Silent Auction Panel Professor Luncheon Family Science Day

May:

Pizza Study Break



Photo from SUBS Halloween Trick-or-Treat in Fall 2019 From left to right: Alila Amangali, Advait Athreya, Shaopeiwen Luo, and Rohitkumar Marol



Education Abroad Photo Contest



Congratulations to Jessica Fabrizio-Stover '20 BEB, the Grand Prize Winner of the annual Education Abroad Photo

Caption: Participating in ReefWatch, a citizen science program studying the condition of coral in the great barrier reef.

Click here to view more of the photo contest winners!

Important Deadlines

De Kiewiet Summer Research Fellowship 2020

- ◆ Submit Intent to Apply online form by March 2nd
- Prepare and upload the following documents by **March 16th** (the first Monday after spring break):
 - 1. Formal Scientific Research Proposal
 - 2. Relevant Professional Experience Summary
 - 3. Research and Career Goals Summary
- → Have research mentor and an additional faculty member write and submit a letter of support to <u>BioDeptUgOffice@ur.rochester.edu</u> by **March 16th**.
- → Have research mentor prepare and submit a Statement of Authorship to BioDeptUgOffice@ur.rochester.edu by March 16th.

Honors in Research / Defending a Senior Thesis Spring 2020

- Submit an Application for Candidacy by March 2nd
 - ◆ Application must include the defense committee member recommendations
- ◆ Thesis defenses must be conducted and have the results communicated to the UPBM office by the end of the first week of May
 - ◆ Candidates are encouraged to have everything in place by mid-April (date, room reservation, etc)

<u>Independent Research Courses in Biological Sciences (###395) Spring</u> 2020

- 1. Students must develop their course description with their research mentor
- 2. Students must submit the online UPBM Pre-Registration form
- 3. Once approved, students will need to submit the online CCAS Independent Study form

Deadlines for Spring 2020

4 Credit 395 Courses:

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 Courses:

Must start course by Friday 2/7

Submit Online <u>UPBM Pre-Registration form</u> by **Friday 2/14** Submit Online <u>CCAS Independent Study</u> form by **Friday 2/21**

2 Credit 395 Courses:

Must start course by Friday 3/6

Submit Online <u>UPBM Pre-Registration form</u> by **Friday 3/13**Submit Online CCAS Independent Study form by **Friday 3/20**

Office of Undergraduate Research

Undergraduate Research Exposition April 2020

The Undergraduate Research Expo is where students from across the college come together to present their research. The expo consists of 3 parts: the Symposium, the poster presentations, and the awards ceremony. This years expo will be taking place on Friday, April 17th.

The Symposium is a set of four concurrent sessions running from 12:30 - 1:30 p.m. in four different locations across campus. In each session, 3 to 4 participants selected by judges from a distinct disciplinary section will present their research. These students represent the most accomplished undergraduate work throughout the College. The four disciplinary sections are humanities, social sciences, engineering and mathematics, and natural sciences.

The Poster Presentation will be from 2:00 - 3:00 p.m. in the Palestra in Goergen Athletic Center and will be were all interested students can present their research. There will be beverages and hors d'oeuvres for everyone in attendance.

The Awards Ceremony will be at 3:10 p.m. in the Palestra in Goergen Athletic Center. The following awards will be presented:

- President's Prizes awarded to the top 4 presentations from the 4 disciplinary areas
- Deans' Prizes awarded to the other Symposium presenters
- Professors' Choice Awards awarded to 4 students presenting in the Poster Fair

Application Process:

Students interested in presenting their research should fill out an online application form by **March 1st at midnight**. *Research does NOT have to have been conducted at Rochester. Recommender(s) will be asked to submit letters of support to the Office of Undergraduate Research. They do not need to be part of the Rochester faculty to qualify. Judges will be looking in the applications for your quality of research, your command of the subject, and if your topic would be of interest to a broad audience.

Notifications will be sent to the students during the first week of April on the decision of their submission.



Discover Grant Funding *New Guidelines Starting Summer 2020

The Discover Grant is awarded by the Office of Undergraduate Research. It's goal is to help students get involved in research early on in their time here at the University of Rochester, as well as enhance their competitiveness for fellowships and research down the line.



Award Amount: \$2,500. There is no more partial funding.

Time Requirement: minimum of 300 research-intensive hours throughout the summer

Eligibility Rules:

- ◆ Undergraduate students who are enrolled for Fall 2020 (December 2020 graduates and T5 or e5 students are also eligible)
- ◆ Research must take place over the summer and be otherwise unpaid (no hourly wage or large stipend)
- ◆ Research must be conducted by a mentor that is a University of Rochester affiliated supervisor
- ◆ Starting this year, students can only be awarded one Discover Grant during their time at the University (For the 2020 application cycle, previous awardees can still apply)

Application Process

- ◆ Applications open on Monday, January 27th
- ◆ Student application deadline is Friday, March 20th. Mentor and Recommender supplements are due on Friday, March 27th.
- ◆ A panel of faculty and staff will evaluate all completed application packages and it is anticipated that about 75 applicants will receive funding
- ◆ Decisions will be announced on Friday, April 10th

There will be a <u>Discover Grant Info Session: How to Apply</u> on Tuesday, January 28th at 5 p.m. in Dewey 2-162!

For more information, please visit the <u>Discover Grant</u> webpage.



The Greene Center for Career Education and Connections

"The Greene Center provides students with the resources and tools needed to develop connections between their personal and professional aspirations, academic pursuits and co-curricular experiences including on-campus employment, research activities, and internships.

Students have access to one-on-one career exploration and industry advising appointments, peer advising through collaboration hours, graduate and professional school preparation, on and off-campus recruitment activities, internship funding for summer internships, programs and events, and alumni connections.

The Greene Center has also built out its services and strategies for alumni engagement and stewardship, employer and industry engagement, operations, communications, and data management and visualization. The Greene Center aims to be integrated into other aspects of the College and University experience and continues to lead efforts for a coordinated approach to career education."



Contact Information:

4-200 Dewey Hall (585) 275-2366 career.center@rochester.edu

Snapshot of Events for Spring 2020

HOW TO GET A JOB ON CAMPUS!

Friday, January 24th 2-110D Dewey Hall 12:00 - 1:00 p.m.

Job Search Research Resources: Targeting and Profiling Potential Employers

Monday, February 3rd 2-7536 SMD 12:00 - 1:00 p.m

The Regeneron Way: Reinvent Invention

Thursday, February 13th 1400 Wegmans Hall 5:00 - 6:30 p.m.

Etiquette Dinner

Thursday, February 27th Feldman Ballroom - Frederick Douglass 6:00 - 8:00 p.m.

<u>UB School of Pharmacy and Pharmaceutical</u> Sciences Information Session

Wednesday, March 18th 4-200 Dewey Hall, Greene Center Conference Room 2:00 - 3:00 p.m.



Center for Excellence in Teaching and Learning



"The Center for Excellence in Teaching and Learning (CETL) strives to promote quality teaching and learning through a range of programs for faculty, graduate students, and undergraduate students. CETL offers Arts, Science & Engineering faculty a series of workshops, a consulting service, a mini-grant program, and a repository of resources about designing, teaching, and evaluating courses. Our program provides graduate students with resources to support their work as classroom TAs, laboratory TAs, and instructors. Graduate students are also welcome to make use of services that support their own learning. CETL supports undergraduate students with services that promote academic success, including course-specific collaborative workshops and study groups, study skills support, study zone, and a study skills course. CETL offers academic honesty support, including educational outreach programming and confidential counseling for students, faculty, staff, and parents."

<u>Workshops</u> - these are peer-led team learning workshops who meet weekly to solve tough problems. Student-Leader who has recently been successful in the course lead the workshops

Study Groups

<u>Tutoring</u> - a free service available for all undergraduate students. Most classes covered are 100-level STEM courses.

Study Skills - Get one-on-one help, take a study skills course

<u>Study Zone</u> - a program with a designated study area in the CETL office where students can focus on work. Peer leaders will be available to help motivate and keep students on track. To access this zone you must enroll by filling out an <u>application</u>.



1-154 Dewey Hall (585) 275-9049 cetl@rochester.edu





River Campus Libraries



Pathway to Research Opportunities

Originally named "Taking Control of Your Research Path" Pathways to Research Opportunities (PRO) is a program available to students to teach them how to dial in on their research interests and how to network.

The purpose of PRO is to help students build soft skills and research skills they need to obtain research positions most relevant to their interests, whether it be on-campus in a lab or with a faculty research advisor, as well as off-campus in the community or beyond. The program serves all disciplines, spanning across the humanities, social sciences, and sciences in support of all UR students.

Contact Stephanie Barrett, the PRO Coordinator, for more information.

Upcoming Events

What is Research?!

Tuesday, January 28th from 5:00 - 6:00 p.m. in iZone Hear from students who have successfully gotten research positions both on and off campus.

How to Build Your Network

Tuesday, February 4th from 4:30 - 5:30 p.m. in iZone

This is a workshop where students can learn strategies for building their network, as well as learning how to have more meaningful interactions with those in their network.

How to Build Your Network

Friday, February 7th from 1:00 - 2:00 p.m. in Carlson Library (2nd floor near the windows) This is a workshop where students can learn strategies for building their network, as well as learning how to have more meaningful interactions with those in their network.

Deep Dive into Research at UR

Friday, February 21st from 11:00 a.m. - 12:00 p.m in Instruction Suite B in Rush Rhees Library This is a masterclass/workshop in how to research faculty publications and informal venues for where research can be shared.

Deep Dive into Research at UR

Tuesday, March 3rd from 4:30 - 5:30 p.m. on the Carlson first floor near VISTA This is a masterclass/workshop in how to research faculty publications and informal venues for where research can be shared.

Visit their website to learn more and sign up for their mailing list! http://pro.digitalscholar.rochester.edu



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)

Animal Care Sanctuary

Pre-Veterinary and Animal Science Internships

Boise State University

REU in Raptor Research *Deach

REU in Raptor Research *Deadline to apply 2/10/20

Boyce Thompson Institute

Summer Internship *Deadline to apply 2/7/20

Caltech

Wave Fellows *Deadline to apply 1/12/20

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 Agritech *Deadline to apply 2/2/20 Coastal Marine Education and Research Academy

Summer Field Research

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

Donald Danforth Plant Science Center

<u>Danforth Center Summer Internship Program</u>

*Deadline to apply 2/5/20

Duke University

Science & Society Leadership Award *Deadline to apply 1/31/20

EPA Internships

Medical Research and Health Science Internships Available in Europe! *Deadline to apply for summer session 2/1/20

Fred Hutch Cancer Research Center
Internships in Scientific Research or Medicine
Summer Undergraduate Research Program
*Deadline to apply 1/10/20

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 Forest

Summer Research Program in Ecology

Harvard School of Public Health
Summer Program in Biological Sciences Public
Health *Deadline to apply 2/1/20

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

<u>Enrichment Summer Program</u> *Deadline to apply 1/31/20

National Collegiate Research Conference (NCRC)

NCRC 2020 Applications *Deadline to apply

12/15/19

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

Nobel Research Institute

Scholars in Agriculture *Deadline to apply 12/31/19
Scholars in Plant Science *Deadline to apply 12/31/19

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

Southern Teaching Agency Spring Job Fairs

Stowers Institute for Medical Research
Stowers Summer Scholars *Deadline to apply
2/3/20

SUNY Oswego Global Laboratory
Summer Science Research Abroad

Teach for America
Opportunities

Texas Tech University Health Sciences Center Summer Accelerated Biomedical Research Internships *Deadline to apply is 2/15/20 or 3/15/20

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 Unergraduate 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 Pesserah Followshir

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 Undergradute 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 I Program in Genetics & Genomics

George Washington University

<u>Environmental Resource Policy Program</u>

Harvard Medical School

<u>Master of Medical Science in Immunology</u>

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

Michigan State University

<u>College of Veterinary Medicine Graduate</u>

<u>Programs</u>

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

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 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

Woodrow Wilson Graduate School Graduate School of Teaching and Learning

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

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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