

UPBM E-NEWSLETTER

Undergraduate Program in Biology and Medicine



Bio Department Ugly Sweater Contest 12/15/14 - picture by Cheeptip Benyajati

Left - Right: Yuliya Ablava, Sina Ghaemmaghami, Bob Minckley, Dragony Fu, Andrei Seluanov, Tom Eickbush, Danna Eickbush, Brenna Rybak, Michael Van Meter

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By Marianne Arcoraci & Dr. Cheeptip Benyajati.



Happy Holidays Biology Style

Who says Biologists don't know how to have fun?

The photograph above was taken at the Biology Department Holiday Party where many of the faculty outdid themselves competing for the title of Best Ugly Sweater.

The competition was fierce as there were two categories "Best Un-Altered" and Best "Hand-Made". "Un-altered" meaning this beautiful garment had already been hanging in their closet. "Hand-Made" implies there was a vision, possession of a glue gun, and tireless effort.

The winner of the best "un-altered" sweater was snagged by Dr. Bob Minckley while Drs. Tom and Danna Eickbush took home the prize for best "hand-made" sweater. Dr. Minckley donned a crocheted number reminiscent of the 80's and the Eickbush ensemble incorporated pipets and other elements from Bio labs definite crowd pleasers. See page six for a closer look.

As you head home for much needed R and R be sure to check out this issue of UPBM e-news to see what opportunities lie ahead in the spring semester and peruse recent additions made to the "Opportunities" section.

Have a fabulous and above all safe holiday season and we will see you next year.

UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS



Picture by Cheeetip Benyajati - Maverick Benyajati looking for anything that moves...



Biology Department Pipet Holiday Tree on Display in Hutchison 402. Decorated by Heather LeBleu '16, BCD

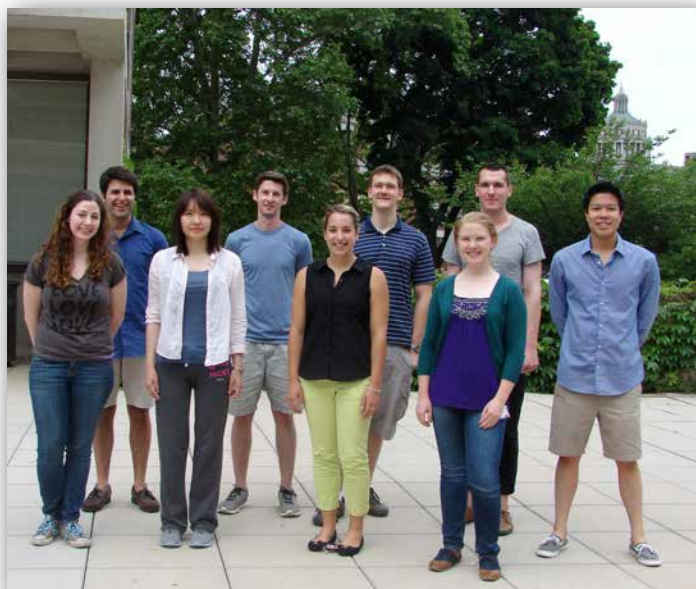
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UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

deKiewiet Fellowship Summer 2015

Letters of Intent Due 3/2/15 / Proposals Due 3/16/15



deKiewiet Fellows from Summer 2014 - Picture by Cheeptip Benyajati

1st Row (Left-Right): Shannon Keating '15, BEB; Ruijia Zhu '15, BBC / CHM; Kristin Abramo '15, BMG / BSB; Jamie Strampe '15, BMB

2nd Row (Left-Right): Ali Khan '15, BBC / ENG; Maxwell Sims '15, BNS / BSB; Robert Rietmeijer '15, BBC; Mikel Ruterbusch '15, BBC; Jonathan Tam '15, BMB
Not Pictured: Jiyeon (Junne) Park '15, BCD / HLP

The de Kiewiet Summer Research Fellowships are designed to give University of Rochester students in the B.S. and B.A. Tracks in the Program in Biology and Medicine an opportunity to obtain substantial research experience in the laboratories of [Program Faculty](#).

de Kiewiet Fellows work for ten weeks during June, July, and August (6/1/15 - 8/3/15) in the lab of their research mentor and present a poster in the UPBM Poster Session in October of their fellowship year. Fellows receive a \$4000 stipend this period.

Application Process: Officially declared [UPBM](#) juniors are invited to apply. The application process is competitive as there is a limited amount of openings available. Candidates will be required to write a letter of intent, two essays, a research proposal and obtain two letters of support.

The letter of intent is due Monday **March 2nd, 2015**. While the essays, research proposal, and letters of support will be due on the first Monday after Spring Break **March 16th, 2015**. A statement from the candidates research advisor regarding the authorship of the proposal will also be due on the 16th as well.

Letter of Intent: The letter of intent is a short e-mail to the UPBM Committee indicating the intent to apply. The letter should also include the name of the faculty who has agreed to mentor the research along with the department where the it will reside. Letters of intent should be e-mailed to [Marianne Arcoraci](#) by **3/2/15**.

Research Proposal & Essays: In addition to writing a Research Proposal two essays will need to be included that describes the students "Relevant Professional Experience" and "Research Career Goals". Visit the [deKiewiet Formal Proposal Guidelines Website](#) for further details on the requirements. All proposal materials will need to be uploaded to blackboard by **3/16/15**.

Letters of Support / Recommendations: The first letter of support must be written by the faculty member who has agreed to mentor the research. The second letter of recommendation should be written by a faculty member, preferably within an area of science. For more details about visit the [deKiewiet Letters of Recommendation Webpage](#).

Research Advisor's Statement of Authorship: While some guidance from the faculty research mentor is expected the student is responsible for the authorship of their proposal. The research advisor should e-mail a brief statement addressed to the UPBM Committee explaining how much of the de Kiewiet Research Fellowship Proposal was written by the student and how much was contributed by the faculty member. Statements should be e-mailed directly from the faculty to [Marianne Arcoraci](#) by the proposal deadline on **March 16th, 2015**.

Applicant Review: The scientific quality of research proposals, essays, letters of recommendations, and the student's academic status will be reviewed by the UPBM committee. Applicants are welcome to submit an additional letter to the committee to support their candidacy if desired.

Results will be communicated to the applicants by the end of the first week in April.

Finding Mentors / Getting Started: It is the student's responsibility to find a [program faculty](#) member who conduct research within their area of interest and will agree to sponsor them during the summer.

Whether a student is already working with a faculty member or a search needs to be conducted it should be planned well in advance so there is ample time for the faculty and students to prepare. Visit the [Independent Research Website](#) for tips and resources on [Finding a Research Mentor](#).

Related

[deKiewiet Formal Proposal Guidelines](#)

[2014 deKiewiet Photo Album](#)

[Finding A Research Mentor](#)

[UPBM Calendar for AY 2014-15](#)

[UPBM Poster Session 2014 Slideshow](#)

UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

How to Obtain Honors in Research

Senior UPBM Majors / Defending a Senior Thesis

Receiving honors in research recognizes a student for outstanding accomplishments in scientific discovery. Students majoring in the [Undergraduate Program in Biology and Medicine \(UPBM\)](#) with research of exceptional quality and a minimum BIO GPA of 2.7 may apply for candidacy during their senior year. Candidates must have developed a novel body of work that includes publication quality data from which to generate a senior thesis. In addition, candidates must successfully present and defend their senior thesis before a faculty examination committee.

Planning of a senior thesis generally begins before or at the beginning of the senior year. Students should consult both their major/track coordinator and research advisor beforehand. Students may use research obtained through Independent Research (395) courses, fellowships, internships, and voluntary work to compose their senior thesis.

Data collected from other institutions outside of the university may be used to support a portion of the thesis; "however, all facts and figures reported as results in the thesis must be derived by the candidate, and must be part of the collaboration with the UR faculty who is overseeing the writing of student's thesis".

A defense committee for a senior thesis consists of three UR faculty members who work within a relevant field of study and are qualified to examine the candidate's thesis. Research mentors will need to give at least 1 - 2 names of faculty whom they feel are an appropriate fit and would be willing to serve on the committee. These recommendations should be included on the application for candidacy." All recommendations require the review and approval of the candidate's academic advisor.

Interested students must submit an [application for candidacy](#) to the UPBM office (Hutchison 488) with the endorsing signatures of **both** their research mentor and major/track coordinator by **Monday, March 2nd, 2015**. Please note that students do not need to register an Independent Research (395) course to do a senior thesis unless necessary to complete experimentation.

Candidates will need to facilitate the formation of their defense committees by working with their faculty advisor to identify and reach out to faculty to invite them to serve. Faculty members to serve on the defense committee should be discussed when students meet with their advisors to have their [applications for candidacy](#) approved. Candidates will need to report the names of their committee to the [UPBM Office](#) by **Monday, March 23rd**.

It is the responsibility of the candidate to contact the defense committee members to schedule a date and time. Candidates should initiate this process as soon as the examination

committee is formed as it may be difficult to coordinate a mutual date, time and conference room by **Friday April 10th, 2015**. Final arrangements should also be communicated to the [UPBM office](#) by 4/17/15.

Senior thesis papers should be a minimum of 20 pages in length and written as a scientific paper using supporting text, diagrams, figures, and properly noted references. Candidates must provide copies of their thesis to each of their committee members and the [UPBM office](#) at least one week in advance of their thesis defense. Please note that failure to comply may result in the cancellation of the defense.

Students should prepare a 20-minute presentation and should be prepared to answer questions during an oral examination. If the committee agrees, the seminar may be open to guests; however, the oral examination will be closed.

The thesis defenses must be completed and the results communicated to the UPBM office in writing by the end of the first week in May, **Friday May 1st, 2015**. Upon successful completion "Honors in Research" will be noted on transcripts and a certificate awarded at the student's diploma ceremony.

Last year twenty one UPBM majors from the Class of 2014 defended a senior thesis.

Please contact [Marianne Arcoraci](#) with questions.

Related Links:

[Timeline for Planning a Senior Thesis](#)

[Downloadable Application for Candidacy](#)

[UPBM Calendar for AY 2014-15](#)

UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

UR Undergraduate Research Exposition

Opportunity to Present your Research / Application Cycle Open

EXPO

The Office of Undergraduate Research will be holding their annual Exposition this year on **April 10th, 2015 from 12:30 to 4:00 p.m.** .

The Exposition will be comprised of two venues for the presentation of undergraduate research: a Symposium for oral presentations and a Poster Presentation Fair, and the awards ceremony.

The application cycle is now Open! Please visit the [Undergraduate Research Expo Details Webpage](#) for more information as well as the link to download the application. The application deadline is February 28th, 2015.

For more information contact the [Office of Undergraduate Research](#).

Related:
[Office of Undergraduate Research](#)

[Undergraduate Research Expo Details Webpage](#)

Internship in London This Summer

EPA Internship Information from Lisa Frauens / Summer Deadline: February 16th, 2015



EPA Internships in Europe offers academic internship opportunities for Biology Majors in Medical Research, Hospital Administration and Public Health.

"My internship in Health Care Administration was better than I could've imagined! I was able to shadow an anesthesiologist in the operating room as well as create podcasts for medical

students. It was a tremendous learning experience, and I would highly recommend this internship to anyone following a pre-medical track or anyone interested in public health."

- by Brittany Porter, Intern with University College London Hospital

"Magical: the only word to accurately describe my experience. My internship gave me a valuable perspective on international healthcare that I have been able to apply to academic and professional experience since my return to America."

- by Teel Liddell, Intern with UK Dept. of Health

Deadline for summer applications is **February 16th, 2015**.

Visit the [EPA Internship Website](#) or contact [Lisa Frauens](#) directly for more details.

Related:
[Office of Study Abroad](#)

[EPA Internship Website](#)

Study Abroad

Schedule of Information Sessions for Spring Semester Due Out Soon

The Office of Study Abroad encourages interested students to attend an information session.

The spring information session schedule will soon be made available at the study abroad website at the following URL: <http://www.rochester.edu/College/abroad/>. Be sure to visit the

study abroad website frequently to find out when it has been posted.

Related:
[Office of Study Abroad](#)

Sharing Means Caring

Newsletter Submissions Welcome

Chances are things that interest you may also be of interest to your colleagues. Please contact the [UPBM Office](#) with your contributions and/or ideas to incorporate into our future newsletters.

UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

Picture Pages

SUBS / UPBM Pizza Study Break (12/15) and BIO Department Ugly Sweater Contest (12/12)



UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

Opportunities

★Any feedback on these programs greatly welcomed (positive or negative).

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

Fred Hutchinson Cancer Research Center
[Summer Undergraduate Research Program](#)

Albert Einstein College of Medicine
[Summer Undergraduate Research Program](#)

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

Amgen Scholars
[Amgen-UROP Scholars Program](#)

Fulbright Scholarship
[US Student Program](#)

Amgen Scholars
[Program Homepage](#)

Gerstner Sloan-Kettering
[Summer Undergraduate Research Program](#)

Case Western Reserve University
[Summer Programs](#)

Harvard Medical School
[Summer Undergraduate Research Internship Program](#)

Case Western Reserve University
[Summer UG Research in Pharmacology](#)

Harvard School of Public Health
[Summer Program in Biological Sciences Public Health](#)

Chicago Center for System's Biology
[Research Experiences for Undergraduates Summer Program](#)

Homeland Security DHS Education Programs
[HS-STEM Summer Internship Program](#)

Cincinnati Children's Hospital
[Summer Undergraduate Research Fellowship \(SURF\)](#)

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

Cleveland Clinic Center for Reproductive Medicine
[Summer Internship Program](#)

Louisiana University Marine Consortium
[Summer Field Course Information](#)

Cold Spring Harbor Watson School of Biological Sciences
[Summer Undergraduate Research Program](#)

MATCH Education
[Teacher Residency](#)

Columbia University
[IGERT Research Program for Undergraduates](#)

Mayo Clinic
[Summer Undergraduate Research Fellowship](#)

Columbia University / Barnard College
[Amgen Scholars Summer Research Program](#)

MedLife
[Volunteers](#)

Cornell University
[Boyce Thompson Institute for Plant Research Internships](#)

Michigan State Veterinary
[Enrichment Summer Program](#)

Cornell University, College of Agriculture & Life Science
[Summer Research Scholars Program](#)

NASA Space Radiation Summer School
[Summer 2015 Program](#)

Davis Projects for Peace
[Kathryn W. Davis Summer Fellowship](#)

National Collegiate Research Conference (NCRC)
[NCRC 2015 Applications](#)

Deutscher Akademischer Austausch Dienst (DAAD)
[Research Internships in Science and Engineering \(RISE\)](#)

Nemours/Alfred I. duPont Hospital for Children and
 Nemours Office of Health Equity and Inclusion
[Summer Undergrad Research Scholarship](#)

Duke University / Robert Noyce
[Teacher Fellowship Program](#)

New York State Dept. of Environmental Conservation
[Summer Employment Opportunities](#)

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

One Heart Source
[Volunteer Opportunities in Africa](#)

UNDERGRADUATE PROGRAM IN BIOLOGY AND MEDICINE (UPBM) E-NEWS

One Start

Your chance to win US\$150k to realize your biotech business idea

PIRG - Job Openings for Graduating Seniors
<http://jobs.studentpirgs.org/>

Projects for Peace
[Kathryn W. Davis Summer Fellowship](#)

Research Internships in Science and Engineering RISE
[Deutscher Akademischer Austausch Dienst \(DAAD\)](#)

Roswell Park Cancer Institute
[Summer Research Programs](#)

SUNY Oswego Global Laboratory
[Summer Science Research Abroad](#)

Teach for America
[Opportunities](#)

Texas Tech University Health Sciences Center
[Summer Accelerated Biomedical Research Internship](#)
 Tulane University
[Graduate Program in Biomedical Sciences](#)

The Chicago Center for Systems Biology Summer REU
[Summer REU Program in Systems Biology](#)

The UNCF Merck Science Initiative
[Science Scholarships and Fellowships](#)

University of Chicago
[REU Program in Computational Neuropsychiatric Genomics](#)

University of Iowa
[Summer Undergraduate MSTP Research Program](#)

University of California Berkeley
[Amgen Scholars UG Summer Research Program](#)

University of Missouri
[Summer Internship Programs](#)

University of Notre Dame Environmental Research Ctr.
[Summer Programs](#)

University of Rochester
[Research Positions](#)

University of Rochester, RC Libraries
[Research Initiative Award for Undergraduates](#)

University of Rochester, UPBM
[deKiewiet Summer Fellowship](#)

University of Tennessee Knoxville
[Summer Research Experience for Undergraduates \(REU\)](#)

University of Texas South Western
[Summer Undergraduate Research Fellowship SURF](#)

University of Utah
[Undergraduate Research Programs](#)

West Virginia University Center for Neuroscience
[Summer Undergraduate Internship SURI Program](#)

Woodrow Wilson Fellowships
[Stem Teaching](#)

World Teach
[Opportunities](#)

Helpful Links

This -N- That

[Athletics](#)
[Biology Department](#)
[Center for Study Abroad & Interdepartmental Programs](#)
[Center for Excellence Teaching and Learning](#)
[Counseling Center](#)
[Dining](#)
[Directory](#)
[Employee Discounts](#)
[Gwen Green Career and Internship Center](#)
[Health Professions Advising Office](#)
[Facilities](#)
[Information Technology](#)

[Journal Of Undergraduate Research \(JUR\)](#)
[Kaplan Test Prep and Admissions](#)
[Libraries](#)
[My4Org - Your campus cheat sheet](#)
[Research Connections Newsletter](#)
[Rochester Academy of Science](#)
[Student Fellowships Office](#)
[Undergraduate Program in Biology & Medicine](#)
[Undergraduate Research Office](#)
[University Health Services](#)
[Writing Speaking and Argument Program](#)

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