

# SUMMER UNDERGRADUATE

# RESEARCH PROGRAM

**DEPARTMENT OF MOLECULAR BIOLOGY  
LEWIS-SIGLER INSTITUTE FOR INTEGRATIVE GENOMICS**

Summer 2016



# Table of Contents

<b>Table of Contents</b>	<b>2</b>
<b>Calendar of Events</b>	<b>3</b>
First Week	3
Weekly and Special Events	4
Poster Session Schedule	5
<b>MOL/QCB Summer Program Students</b>	<b>6</b>
<b>Laboratory &amp; Biosafety Training</b>	<b>9</b>
<b>Radiation Safety Training</b>	<b>12</b>
<b>Additional Safety Training</b>	<b>13</b>
Animal User Training	13
Laser Safety Training	14
Bloodborne Pathogen Training	15
<b>Research Discussion Groups</b>	<b>16</b>
Research Discussion Groups Postdoctoral Instructors	16
Research Discussion Group Schedules	17
Group 1 - Thursday	17
Group 2 - Wednesday	18
Group 3 - Wednesday	19
Group 4 - Thursday	20
Group 5 - Wednesday	21
Group 6 - Thursday	22
<b>Faculty Research Talks</b>	<b>23</b>
<b>Special Events</b>	<b>24</b>
Efficient Research Workshop	24
Grad School Panel	24
How to Prepare a Poster	24
Special Seminar with Dr. Crew Smith	26
Graduate School Information Session	26
Career Symposium	26
<b>Keys &amp; Building Access</b>	<b>26</b>
<b>Parking</b>	<b>26</b>
<b>Network Info</b>	<b>27</b>
<b>Monitoring Of Illegal Downloads</b>	<b>27</b>
<b>Poster Session</b>	<b>28</b>
<b>Summer Program Contacts</b>	<b>29</b>

## Calendar of Events

### First Week

Date	Event	Time	Location
<b>Monday June 6</b>	<b>Welcome Orientation 1</b> - Receive a brief overview of the program - Ask questions - Fill out important forms	<b>10:00 – 11:00 a.m.</b>	<a href="#">SCH 107</a> (1 <sup>st</sup> floor/lobby)
<b>Tuesday June 7</b>	<b>Welcome Orientation 2</b> - Receive a brief overview of the program - Ask questions - Fill out important forms	<b>10:00 – 11:00 a.m.</b>	<a href="#">SCH 107</a> (1 <sup>st</sup> floor/lobby)
<b>Tuesday June 7</b>	<b>Biosafety in the Lab Training</b> (see <a href="#">page 9</a> for details)	<b>1:00 – 2:00 p.m.</b>	<a href="#">SCH 107</a> (1 <sup>st</sup> floor/lobby)
	<b>Laboratory Safety Training</b> (see <a href="#">page 9</a> for details)	<b>2:00 – 5:00 p.m.</b>	
<b>Wednesday June 8</b>	<b>First Research Discussion Group Meetings</b> For groups Wed 2, Wed 3 and Wed 5	<b>12:00 – 1:00 p.m.</b>	<a href="#">LTL</a> rooms
<b>Thursday June 9</b>	<b>First Research Discussion Group Meetings</b> For groups Thu 1, Thu 4 and Thu 6	<b>12:00 – 1:00 p.m.</b>	<a href="#">LTL/SCH</a> rooms
<b>Friday June 10</b>	<b>Efficient Research Workshop led by Geneva Stein, PhD</b> (page <a href="#">24</a> ) Please RSVP online by noon Tuesday, June 7 <a href="https://www.surveymonkey.com/r/SURPResWrkshp">https://www.surveymonkey.com/r/SURPResWrkshp</a>	<b>2:00 – 3:00 p.m.</b>	<a href="#">Frist</a> 330

## Weekly and Special Events

### Weekly Events

Date	Event	Time	Location
<b>Tuesdays</b> (Jun 14 – Jul 26; no July 13 <sup>th</sup> talk)	<b>Faculty Research Talks</b> (page <a href="#">23</a> ) <i>The first talk is Tuesday, June 14.</i> Please RSVP online by noon the Friday before each talk.  <a href="https://www.surveymonkey.com/r/SURPtalkRSVP16">https://www.surveymonkey.com/r/SURPtalkRSVP16</a>	<b>6/14 talk:</b> <b>12:00 – 1:00 p.m.</b>  <b>All other talks:</b> <b>12:30 – 1:30 p.m.</b>	<b>SCH 107</b> (1 <sup>st</sup> floor/lobby)
<b>Wednesdays</b> (Jun 15 – Jul 27)	<b>Research Discussion Weekly Group Meetings</b> For groups Wed 2, Wed 3 and Wed 5	4:00 – 5:00 p.m.	<b>LTL</b> rooms
<b>Thursdays</b> (Jun 16 – Jul 28)	<b>Research Discussion Weekly Group Meetings</b> For groups Thu 1, Thu 4 and Thu 6	4:00 – 5:00 p.m.	<b>LTL/SCH</b> rooms

### Special Events

Date	Event	Time	Location
<b>Monday</b> <b>June 27</b>	<b>Grad School Panel</b>  Please RSVP: <a href="https://www.surveymonkey.com/r/SURPgradPnl">https://www.surveymonkey.com/r/SURPgradPnl</a>	5:00 – 6:00 p.m.	PNI A32
<b>Wednesday</b> <b>July 6</b>	<b>How to Prepare a Poster</b>  Please RSVP: <a href="https://www.surveymonkey.com/r/SURPposter">https://www.surveymonkey.com/r/SURPposter</a>	12:00 – 1:00 p.m.	SCH 107
<b>Wednesday</b> <b>July 13</b>	<b>Special Seminar with Dr. Crew Smith,</b> <b>Princeton MolBio Class of 2006</b>  Please RSVP online by noon, Friday, July 8. <a href="https://www.surveymonkey.com/r/SURPspecSem">https://www.surveymonkey.com/r/SURPspecSem</a>	12:00 – 1:00 p.m.  (1:00 – 2:00 p.m.: option to stay for round-table discussion)	SCH 107
<b>Wednesday</b> <b>July 20</b>	<b>Graduate School Information Session with</b> <b>Professor Mala Murthy (page <a href="#">25</a>)</b>  Please RSVP online by noon Monday, July 18. <a href="https://www.surveymonkey.com/r/gradschlRSVP">https://www.surveymonkey.com/r/gradschlRSVP</a>	12:00 – 1:00 p.m.	PNI A32

Thursday July 21	<b>Career Symposium</b>  Please RSVP: <a href="https://www.surveymonkey.com/r/SURPcareer">https://www.surveymonkey.com/r/SURPcareer</a>	5:30 – 6:30 p.m.	SCH 107
Thursday August 4	<b>Poster Session</b> (page 28)	2:30 – 5:00 p.m.	<a href="#">Icahn Atrium</a>
	<b>Poster Session/Closing Dinner</b>  Please RSVP online by noon Monday, August 1. <a href="https://www.surveymonkey.com/r/2016SURPdnr">https://www.surveymonkey.com/r/2016SURPdnr</a>	5:00 – 6:30 p.m.	Icahn Atrium

### Poster Session Schedule

Date	Event	Time	Location
Wednesday July 20 Thursday July 21	Students hand in drafts of abstracts to research group instructors		
Wednesday July 27 Thursday July 28	Instructors hand back corrected abstracts in discussion groups		
Thursday July 28	<b>Deadline to submit posters for printing.</b> Students email their poster file to Melissa DiMeglio at <a href="mailto:md20@princeton.edu">md20@princeton.edu</a>	No later than 4:00 p.m.	
Friday July 29	<b>Deadline to submit abstracts.</b> Students email the final draft of their abstracts to Melissa DiMeglio at <a href="mailto:md20@princeton.edu">md20@princeton.edu</a>	No later than 4:00 p.m.	
Monday August 1	<b>Deadline to RSVP for Closing Dinner at:</b> <a href="https://www.surveymonkey.com/r/2016SURPdnr">https://www.surveymonkey.com/r/2016SURPdnr</a>	No later than 12:00 p.m.	
Wednesday August 3	Students put up posters in the afternoon.	Starting at 3:00 p.m.	Carl Icahn Atrium
Thursday August 4	Poster Session (page 28)	2:30 – 5:00 p.m.	Carl Icahn Atrium
	Poster Session/Closing Dinner	5:00 – 6:30 p.m.	Carl Icahn Atrium
Friday August 5	Last day of program  <i>*Students should take down their posters after poster session on Thursday evening. The boards will be removed early Friday morning.</i>		

## MOL/QCB Summer Program Students

Name	Advisor	Institution
Audrey Abend	Donia	Princeton University
Elin Ahlstrand	Shvartsman	Princeton University
Katherine Angier	Amodeo	Princeton University
Isao Anzai	Ando	Princeton University
Jennifer Au	Witten	Princeton University
Debopriyo Biswas	Shvartsman	Princeton University
Constance Braz	vonHoldt	Princeton University
Helena Casademunt	Bialek	Princeton University
Allison Chang	Donia	Princeton University
Minseung Choi	Murthy	Princeton University
Rachel Choi	Enquist	Princeton University
Aastha Chokshi	Link	Princeton University
Briana Christophers	Burdine	Princeton University
Dominick Cioppa	Brody	Princeton University
Marvin Cortez	Burdine	UC Irvine
Michael Delgado	Bassler	Princeton University
Patrick Dinh	Cristea	Princeton University
Rohan Doshi	Shaevitz	Caltech
Peter Du	Boulanger	Princeton University
Tayla Duarte	Leifer	Bates College
Elbegduuren Erdenee	Petry	Princeton University
Tyler Fair	Levine	Princeton University
Benjamin Gallo	Gavis	Princeton University
Ruby Guo	Gitai	Princeton University
Gavin Hall	Gregor	Princeton University
Seunghun (Aiden) Han	Rabinowitz	Princeton University
Matthew Hankins	Ayroles	Saint Peter's University
C'Brionne Hendrix	Murphy	Prairie View A&M University

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Tiffany Huang	Ploss	Princeton University
Ariane Imulinde Sugi	Shvartsman	William Penn University
Obinna (Obi) Iregbu	Schwarzbauer	Princeton University
Vishank Jain-Sharma	Gregor	Princeton University
Javier Janbieh	Schedl	Princeton University
Delaney Johnson	Shenk	Princeton University
Keana Johnson	vonHoldt	Virginia State University
Angela Kim	Silhavy	Princeton University
Hyewon Kim	Berry	Princeton University
Jihoon Kim	Murphy	Princeton University
David Chanju Kim	Ploss	Princeton University
David Kolet-Mandrikov	Korenykh	Princeton University
Iason Kountouridis	Shvartsman	Princeton University
Yuen Ting (Kelly) Lau	Hughson	Princeton University
Jennifer Lee	Toettcher	Princeton University
Joan Lee	Wieschaus	Princeton University
Michael Lee	Singh	University of Washington
Edison Lee	Wieschaus	Princeton University
Daniel Liu	Kang	Princeton University
Jason Manley	Shaevitz	Princeton University
David Mazumder	Murthy	Princeton University
David McFall	Stock	Princeton University
Josh Morrison	Burdine	Princeton University
Katrina Muñoz	Bassler	Bates College
Sara Myers	Troyanskaya	University of Scranton
Emily O'Driscoll	Boulanger	Princeton University
Joshua Payen	Enquist	Princeton University
Vikram Pothuri	Silhavy	Princeton University
Audrey Potts	Stock	Princeton University
Nandita Rao	Notterman	Princeton University

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Tiffany Richardson	Brangwynne	Princeton University
Deja Rogers	vonHoldt	Virginia State University
Iris Rukshin	Wingreen	Princeton University
Sarah Santucci	Levine	Princeton University
Christian Shema Mugisha	Gitai	California Baptist University
Arfan (Sunny) Siddique	Murphy	Princeton University
Jorge Sion	Devenport	Princeton University
Morgan Sly	Cristea	Princeton University
Caroline Snowden	Cristea	Princeton University
Samvida S. Venkatesh	Gregor	Princeton University
Xiaodi (Alice) Tang	Singh	Princeton University
Dorothy Tang	Schüpbach	Princeton University
Sajal Tiwary	Gavis	Princeton University
Narlyn Veliz	Devenport	Princeton University
Nicole Wang	Kang	Princeton University
Junkai Wang	Kang	Zhejiang University
Monica Wei	Rabinowitz	Princeton University
Kei Yamaya	Shvartsman	Princeton University
Karen Zhang	Amodeo	Princeton University
Qianyun Zhang	Murphy	Zhejiang University
Fangzhu Zhao	Bassler	Zhejiang University
Shiyi Zhou	Murphy	Zhejiang University



# Laboratory & Biosafety Training

Date: Tuesday, June 7

Location: SCH 107 (ground floor)

Time: 1:00 - 5:00 p.m.



## Biosafety in the Laboratory Training - 1:00-2:00 p.m.

Conducted by Jacqueline Wagner - Assistant Director, Environmental Health & Safety - [jw6@princeton.edu](mailto:jw6@princeton.edu)

## Laboratory Safety Training - 2:00-5:00 p.m.

Conducted by Kyle Angjelo - Program Manager, Chemical Safety, Environmental Health and Safety - [kangjelo@princeton.edu](mailto:kangjelo@princeton.edu)

EHS Website: <https://ehs.princeton.edu/>

The following students must attend as indicated in the chart.

Please let [us](#) know if you are working on a computational project only and will not be doing any wet lab work over the summer.

Lab safety training for ISC 231-232 courses does not satisfy the full laboratory safety training requirement and cannot be substituted.

Name	Advisor	Institution	Safety Training Required
Audrey Abend	Donia	Princeton University	Both bio and lab safety training
Elin Ahlstrand	Shvartsman	Princeton University	Both bio and lab safety training
Jennifer Au	Witten	Princeton University	Both bio and lab safety training
Debopriyo Biswas	Shvartsman	Princeton University	Both bio and lab safety training
Helena Casademunt	Bialek	Princeton University	Lab safety training
Allison Chang	Donia	Princeton University	Both bio and lab safety training
Rachel Choi	Enquist	Princeton University	Biosafety training
Aastha Chokshi	Link	Princeton University	Biosafety training
Marvin Cortez	Burdine	UC Irvine	Both bio and lab safety training
Michael Delgado	Bassler	Princeton University	Biosafety training
Patrick Dinh	Cristea	Princeton University	Both bio and lab safety training
Rohan Doshi	Shaevitz	Caltech	Both bio and lab safety training
Tayla Duarte	Leifer	Bates College	Both bio and lab safety training

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>	<b>Safety Training Required</b>
Elbegduuren Erdenee	Petry	Princeton University	Both bio and lab safety training
Tyler Fair	Levine	Princeton University	Both bio and lab safety training
Benjamin Gallo	Gavis	Princeton University	Both bio and lab safety training
Gavin Hall	Gregor	Princeton University	Biosafety training
Seunghun (Aiden) Han	Rabinowitz	Princeton University	Both bio and lab safety training
Matthew Hankins	Ayroles	Saint Peter's University	Both bio and lab safety training
C'Brionne Hendrix	Murphy	Prairie View A&M Univ.	Both bio and lab safety training
Ariane Imulinde Sugi	Shvartsman	William Penn University	Both bio and lab safety training
Obinna (Obi) Iregbu	Schwarzbau	Princeton University	Both bio and lab safety training
Vishank Jain-Sharma	Gregor	Princeton University	Biosafety training
Javier Janbieh	Schedl	Princeton University	Both bio and lab safety training
Delaney Johnson	Shenk	Princeton University	Both bio and lab safety training
Angela Kim	Silhavy	Princeton University	Biosafety training
Hyewon Kim	Berry	Princeton University	Both bio and lab safety training
Jihoon Kim	Murphy	Princeton University	Biosafety training
David Kolet-Mandrikov	Korenykh	Princeton University	Both bio and lab safety training
Iason Kountouridis	Shvartsman	Princeton University	Both bio and lab safety training
Yuen Ting (Kelly) Lau	Hughson	Princeton University	Both bio and lab safety training
Edison Lee	Wieschaus	Princeton University	Both bio and lab safety training
David McFall	Stock	Princeton University	Both bio and lab safety training
Josh Morrison	Burdine	Princeton University	Both bio and lab safety training
Katrina Muñoz	Bassler	Bates College	Both bio and lab safety training
Sara Myers	Troyanskaya	University of Scranton	Lab safety training
Joshua Payen	Enquist	Princeton University	Both bio and lab safety training
Vikram Pothuri	Silhavy	Princeton University	Both bio and lab safety training
Audrey Potts	Stock	Princeton University	Both bio and lab safety training
Nandita Rao	Notterman	Princeton University	Biosafety training
Iris Rukshin	Wingreen	Princeton University	Both bio and lab safety training
Sarah Santucci	Levine	Princeton University	Both bio and lab safety training

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>	<b>Safety Training Required</b>
Christian Shema Mugisha	Gitai	California Baptist University	Biosafety training
Arfan (Sunny) Siddique	Murphy	Princeton University	Both bio and lab safety training
Jorge Sion	Devenport	Princeton University	Both bio and lab safety training
Morgan Sly	Cristea	Princeton University	Both bio and lab safety training
Samvida S. Venkatesh	Gregor	Princeton University	Both bio and lab safety training
Dorothy Tang	Schüpbach	Princeton University	Both bio and lab safety training
Sajal Tiwary	Gavis	Princeton University	Both bio and lab safety training
Narlyn Veliz	Devenport	Princeton University	Both bio and lab safety training
Kei Yamaya	Shvartsman	Princeton University	Biosafety training

## Radiation Safety Training



Students who do expect to use radioactive materials must attend the Radioactive Materials Safety Class on June 8<sup>th</sup>. In preparation for the Radioactive Materials Safety Class, there are two things prospective attendees must complete **before** the Class:

- Complete the Radiation Basics modules and test. Log into [www.princeton.edu/training](http://www.princeton.edu/training), and follow Training by Department > Environmental Health & Safety > Radiation Safety > *Radiation Basics Modules for Open Source Users*. **You must complete this step before you can enroll for the Class. Complete the modules and enroll no later than 10 a.m. on the day of the Class.**
- Formally enroll in the Class through the University training site (Note: you cannot enroll until you've completed the Radiation Basics modules). Log into [www.princeton.edu/training](http://www.princeton.edu/training), and follow Training by Department > Environmental Health & Safety > Radiation Safety. Enroll in the Radioactive Materials Safety Class offered on June 8th.

**The students listed below must complete the Radioactive Materials Safety Class before starting in the lab:**

Full Name	Advisor	Institution
Michael Delgado	Bassler	Princeton University
Benjamin Gallo	Gavis	Princeton University
Seunghun (Aiden) Han	Rabinowitz	Princeton University
Janbieh Javier	Schedl	Princeton University
Angela Kim	Silhavy	Princeton University
David Kolet-Mandrikov	Korennykh	Princeton University
Katrina Muñoz	Bassler	Bates College
Vikram Pothuri	Silhavy	Princeton University
Sajal Tiwary	Gavis	Princeton University
Monica Wei	Rabinowitz	Princeton University

Students in rad labs who will **not** be using radioactive materials will need to complete the online *Radiation Safety Awareness Training for Non-Radioisotope Users*. Log into [www.princeton.edu/training](http://www.princeton.edu/training), and follow Training by Department > Environmental Health & Safety > Radiation Safety > *Radiation Safety Awareness Training for Non-Radioisotope Users*. After you submit the form, you and your lab manager will receive an email confirming that you completed the training from Ms. Sue Dupré, Radiation Safety Officer and Assistant Director, Environmental Health and Safety. [dupre@princeton.edu](mailto:dupre@princeton.edu).

- **Please note: Any student who discovers that s/he will be working on a project that involves radioactive material or x-ray equipment must contact Ms. Sue Dupré at [dupre@princeton.edu](mailto:dupre@princeton.edu) to receive additional radiation safety training.**

## Additional Safety Training

**Please check with your lab mentor or lab manager to confirm if any additional training sessions are required.**

### **Animal User Training**

***If you have any questions, please contact Susie Chow - Associate Director, Research Resources at [siuchow@princeton.edu](mailto:siuchow@princeton.edu).***

Only principal investigators, staff employees, doctoral students, post-doctoral fellows, and undergraduates who are listed on an animal experimentation protocol, which has been approved by the IACUC, may apply for and receive access to animal facilities. Personnel not listed on the protocol are ineligible to apply for facility access. Undergraduate students must be guided and supervised by trained post-doctoral students and fellows, staff, or graduate students.

**All animal users must complete the following steps in order to receive access to animal facilities:**  
*(Please note: Steps 3 and 4 should be started at the same time.)*

- 1. Complete the required AALAS Learning Library (ALL) training.**
  - a) The information on the required course and how to register with the ALL can be found at: <http://www.princeton.edu/ria/animal-research-protectio/training/>
  - b) Follow the instructions under “[Enroll in AALAS Learning Library](#)”.
  - c) Complete the "Princeton University -- All Personnel" track which contains "Working with the IACUC: Working with the IACUC: non-VA version".
  - d) Also complete the animal-specific tracks pertaining to the species and type of work you will be doing. See the training list and details under the [AALAS Learning Library Training Requirements](#) section.
  - e) Print out the transcript of the exams results. You will need to bring these to the facility tour and orientation later on.
  
- 2. Complete Animal Worker Health and Safety training and enroll in medical surveillance for the species you will handle and the facilities you may enter.**
  - a) Training is accessible on the EHS website: <http://web.princeton.edu/sites/ehs/biosafety/biosafetypage/animal.htm>  
You need your net ID and password to log in to the training.
  - b) At the completion of training, you will be directed to the Initial Health History Form: <http://ehsapps.princeton.edu/BioSafety%20Forms/healthhistory.php>  
Answer the questions on the form and click on the “Submit” button, which sends the completed form to Employee Health Services.
  - c) Contact [University Health Services/Employee Health Services](#) at 609-258-5035 for an appointment.

d) For the location of Employee Health Services, see:

<https://uhs.princeton.edu/using-our-services/location-accessibility>

**3. Complete the orientation and facility tour process with Susie Chow, LVT, LATG, Associate Director, Laboratory Animal Resources.**

The animal facility tour and orientation is the most important step in the process of obtaining access to your animal research room(s).

a) Contact Susie Chow at [siuchow@princeton.edu](mailto:siuchow@princeton.edu) to schedule an orientation/tour.

b) Bring the following documentation to orientation:

Verification of test completion of the species specific AALAS Learning Library.

Your PUID number (960\*\*\*\*\*)

**4. Submit an Administrative Amendment Form (attached to email) to [iacuc@princeton.edu](mailto:iacuc@princeton.edu)**

a) Please have your lab PI, manager, or lab mentor assist you with this form. Please use the verbiage below to save a little time on the review process. Generally speaking, most students do not have any previous experience with research animals or the procedures on the animal protocols. A great way to answer the question on experience is to state something like:

*"{insert name} has no previous experience working with {insert species}. He/She will be trained by {insert name of trainer} to perform {insert basic names of procedures}."*

The trainer should already be on the animal protocol.

## **Laser Safety Training**

**Students who require this training will be notified by email or by their lab manager or mentor.** The Laser Safety Program covers work with Class 2, Class 3, and Class 4 lasers. Individuals working with such lasers must attend training which includes: fundamentals or laser operation, biological effects of laser radiation on the eye and skin, non-radiation hazards (e.g. fire hazards, chemical exposure), classification of lasers and laser systems, and control measures and personal protective equipment. Individuals who work with or in close proximity to Class 3b or Class 4 lasers receive additional Laser Safety Training for High-Powered Lasers from EHS.

<https://ehs.princeton.edu/laboratory-research/laboratory-safety/laser-safety/laser-safety-training>

General sessions are posted on the campus training management site –

<http://www.princeton.edu/training>

Email [Steve Elwood](mailto:Steve.Elwood) or call (609-258-6271) to schedule additional sessions.

## **Bloodborne Pathogen Training**

**Students who require this training will be notified by email or by their lab manager or mentor.**

Any person who handles blood or certain other body fluids as part of their job, or whose job responsibilities include activities that might expose them to such body fluids is required to understand the potential hazards of such exposure and receive Bloodborne Pathogens training.

This training is provided on-line via a web-based interactive program and must be completed before initial exposure on the job.

### **Instructions:**

Go to the Employee Learning Center site: <http://www.princeton.edu/training>

You will need to log in using your Princeton NetID and password.

Click on Training by Department > Environmental Health & Safety.

On the Environmental Health & Safety tab (1st tab), click on Biological Safety.

Scroll down to “Bloodborne Pathogens Training for Research Staff” and click the “Click here to start this course” link to access and complete the training.

Contact Jacqueline Wagner, Assistant Director, Environmental Health & Safety, at [jw6@princeton.edu](mailto:jw6@princeton.edu) or at 258-1427 with any questions and for more information.

## Research Discussion Groups

### Wednesday and Thursday Afternoons

- 12:00-1:00 p.m. on June 8 and June 9 only. Lunch provided.
- 4:00-5:00 p.m. from June 15 – July 28.

**Please note: The first research group meetings will be held at 12:00 p.m. during orientation week. Subsequent research group meetings will be held weekly at 4:00 p.m.**

- Each discussion group is led by a postdoctoral instructor.
- The purpose of the research discussion groups is to offer a forum for students to present their projects and findings.
- A major goal is for the students to gain experience with scientific oral presentations.
- Useful information for preparing and delivering presentations may be found online at:
  - Do's and Don'ts of Poster Presentation by Steven M. Block
    - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1233841/pdf/biophysj00042-0617.pdf>
  - Dazzle 'em with Style: The Art of Oral Scientific Presentation by Robert R H Anholt
    - <http://www.physics.ohio-state.edu/~wilkins/writing/Supp/dazzle.html>
  - Scientifically Speaking: Tips for Preparing and Delivering Scientific Talks and Using Visual Aids by Judith P. Rhodes
    - [http://tos.org/pdfs/sci\\_speaking.pdf](http://tos.org/pdfs/sci_speaking.pdf)
- Please see schedule below and pages 17-22 for your group assignments.

### **Research Discussion Groups Postdoctoral Instructors**

Research Group	Instructor Name	First Research Group Meeting 12:00-1:00 p.m.	Weekly Research Group Meetings 4:00-5:00 p.m.
Group 1 Thursday	<a href="#">Alejandro Ochoa, PhD</a> (Storey lab)	<a href="#">LTL</a> 117	<a href="#">LTL</a> 117
Group 2 Wednesday	<a href="#">Nicole Templeman, PhD</a> (Murphy lab)	<a href="#">LTL</a> 117	<a href="#">LTL</a> 317
Group 3 Wednesday	<a href="#">Pranat Cheneeya Chankjanjun, PhD</a> (Donia lab)	<a href="#">LTL</a> 118	<a href="#">LTL</a> 118
Group 4 Thursday	<a href="#">Florian Douam, PhD</a> (Ploss lab)	<a href="#">LTL</a> 118	<a href="#">LTL</a> 118
Group 5 Wednesday	<a href="#">Julie Merkle, PhD</a> ( Schüpbach lab)	<a href="#">LTL</a> 222	<a href="#">LTL</a> 222
Group 6 Thursday	<a href="#">Rachel Arey, PhD</a> (Murphy lab)	<a href="#">SCH</a> 418	<a href="#">LTL</a> 222



## Research Discussion Group Schedules



### Group 1 - Thursday

**Discussion Leader: Alejandro Ochoa**

- June 19: 12:00-1:00pm in **LTL 117**
- June 16-July 28: 4:00-5:00pm in **LTL 117**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Katherine Angier	Amodeo	Princeton University
Debopriyo Biswas	Shvartsman	Princeton University
Constance Braz	vonHoldt	Virginia State University
Marvin Cortez	Burdine	UC Irvine
Tayla Duarte	Leifer	Bates College
Ruby Guo	Gitai	Princeton University
Gavin Hall	Gregor	Princeton University
Matthew Hankins	Ayroles	Saint Peter's University
David Chanju Kim	Ploss	Princeton University
Junkai Wang	Kang	Zhejiang University
Shiyi Zhou	Murphy	Zhejiang University

## **Group 2 - Wednesday**

### **Discussion Leader: Nicole Templeman**

- June 8: 12:00-1:00pm in **LTL 117**
- June 15-July 27: 4:00-5:00pm in **LTL 317**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Audrey Abend	Donia	Princeton University
Rachel Choi	Enquist	Princeton University
Dominick Cioppa	Brody	Princeton University
Erdenee Elbegduuren	Petry	Princeton University
Seunghan (Aiden) Han	Rabinowitz	Princeton University
Javier Janbieh	Schedl	Princeton University
Hyewon Kim	Berry	Princeton University
Iason Kountouridis	Shvartsman	Princeton University
Yuen Ting (Kelly) Lau	Hughson	Princeton University
David Mazumder	Murthy	Princeton University
Josh Morrison	Burdine	Princeton University
Nandita Rao	Notterman	Princeton University
Caroline Snowden	Cristea	Princeton University
Narlyn Veliz	Devenport	Princeton University
Sajal Tiwary	Gavis	Princeton University

### **Group 3 - Wednesday**

**Discussion Leader: Pranat Cheneeya Chankjanjun**

- June 8: 12:00-1:00pm in **LTL 118**
- June 15-July 27: 4:00-5:00pm in **LTL 118**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Jennifer Au	Witten	Princeton University
Minseung Choi	Murthy	Princeton University
Aastha Chokshi	Link	Princeton University
Michael Delgado	Bassler	Princeton University
Tyler Fair	Levine	Princeton University
Tiffany Huang	Ploss	Princeton University
Delaney Johnson	Shenk	Princeton University
Jihoon Kim	Murphy	Princeton University
Jennifer Lee	Toettcher	Princeton University
David McFall	Stock	Princeton University
Emily O'Driscoll	Boulanger	Princeton University
Vikram Pothuri	Silhavy	Princeton University
Tiffany Richardson	Brangwynne	Princeton University
Dorothy Tang	Schüpbach	Princeton University
Nicole Wang	Kang	Princeton University
Jorge Sion	Devenport	Princeton University

## Group 4 - Thursday

### **Discussion Leader: Florian Douam**

- June 9: 12:00-1:00pm in LTL 118
- June 16-July 28: 4:00-5:00pm in LTL 118

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Helena Casademunt	Bialek	Princeton University
Allison Chang	Donia	Princeton University
Rohan Doshi	Shaevitz	Caltech
C'Brionne Hendrix	Murphy	Prairie View A & M University
Ariane Imulinde Sulgi	Shvartsman	William Penn University
Vishank Jain-Sharma	Gregor	Princeton University
Keana Johnson	vonHoldt	Virginia State University
Michael Lee	Singh	University of Washington
Daniel Liu	Kang	Princeton University
Karen Zhang	Amodeo	Princeton University
Fangzhu Zhao	Bassler	Zhejiang University

## Group 5 - Wednesday

**Discussion Leader: Julie Merkle**

- June 8: 12:00-1:00pm in LTL 222
- June 15-July 27: 4:00-5:00pm in LTL 222

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Isao Anzai	Ando	Princeton University
Briana Christophers	Burdine	Princeton University
Peter Du	Boulanger	Princeton University
Benjamin Gallo	Gavis	Princeton University
Obi Iregbu	Schwarzbauer	Princeton University
Angela Kim	Silhavy	Princeton University
David Kolet-Mandrikov	Korennykh	Princeton University
Joan Lee	Wieschaus	Princeton University
Jason Manley	Shaevitz	Princeton University
Joshua Payen	Enquist	Princeton University
Audrey Potts	Stock	Princeton University
Sarah Santucci	Levine	Princeton University
Arfan (Sunny) Siddique	Murphy	Princeton University
Morgan Sly	Cristea	Princeton University
Monica Wei	Rabinowitz	Princeton University
Kei Yamaya	Shvartsman	Princeton University

## **Group 6 - Thursday**

### **Discussion Leader: Rachel Arey**

- June 9: 12:00-1:00pm in **SCH 418**
- June 16-July 28: 4:00-5:00pm in **LTL 222**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Elin Ahlstrand	Shvartsman	Princeton University
Patrick Dinh	Cristea	Princeton University
Edison Lee	Wieschhaus	Princeton University
Katrina Muñoz	Bassler	Bates College
Sara Myers	Troyanskaya	University of Scranton
Deja Rogers	vonHoldt	Virginia State University
Iris Rukshin	Wingreen	Princeton University
Christian Shema Mugisha	Gitai	Princeton University
Samvida Sudheesh Venkatesh	Gregor	Princeton University
Xiaodi (Alice) Tang	Singh	Princeton University
Qianyun Zhang	Murphy	Zhejiang University

## Faculty Research Talks



### TUESDAYS

June 14 only: 12:00-1:00 p.m.

All other dates: 12:30-1:30 p.m.

Schultz 107

Please sign-up online for each faculty talk by noon the Friday before the talk at:

<https://www.surveymonkey.com/r/SURPtalkRSVP16>

Date	Professor	Research / Talk Title
June 14	<a href="#">Yibin Kang</a>	From gene discovery to drug development: how do we treat metastatic breast cancer? (tentative title)
June 21	<a href="#">Shirley Tilghman</a>	The Wild and Wacky World of Epigenetics
June 28	<a href="#">Eric Wieschaus</a>	Mechanics of cell shape change during development
July 5	<a href="#">Thomas Gregor</a>	How do cells in a developing organism know where they are and where they belong?
July 19	<a href="#">Celeste Nelson</a>	Folding multicellular tissues
July 26	<a href="#">Coleen Murphy</a>	Insulin signaling, Cognitive Decline, and Reproductive Aging: Quantifying Quality of Life

Faculty talk attendees will be served lunch.

Please be considerate to the faculty speaker and to your fellow students; please do not disrupt the seminar by leaving before the talk has ended (unless necessary\*).

\*Please let the speaker know beforehand if you must leave early for a lab task or meeting.

Thanks so much.

## Special Events

### Efficient Research Workshop

With [Geneva Stein](#), PhD

Assistant Director, Undergraduate Academic Support Programs

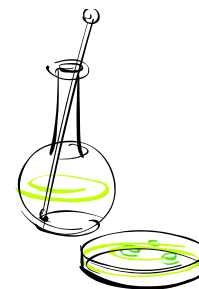
McGraw Center for Teaching and Learning

PhD. in Molecular Biology and Neuroscience

Friday, June 10

2:00-3:00 p.m.

[Frist Campus Center](#), room 330



As researchers, learning to use your time in lab efficiently is essential to successfully moving forward with a project. Outside of learning the science and techniques associated with your project, what can you do to become an efficient researcher? This workshop will touch on many resources, techniques and behaviors that you can employ to get the most out of your research experience whether you are here for the summer or working over the summer to start your senior research project.

**\*Please RSVP for the Efficient Research Workshop by noon Tuesday, June 7 at:**

<https://www.surveymonkey.com/r/SURPResWrkshp>

### Grad School Panel

Monday, June 27

5:00-6:00 p.m.

PNI A32

SURP alumni who are currently at Princeton will offer insight and advice on undergraduate research and writing a personal statement as well as discuss the graduate school application/interview process and graduate student life.

**\*Please RSVP for the Grad School Panel at:**

<https://www.surveymonkey.com/r/SURPgradPnl>

### How to Prepare a Poster

Wednesday, July 6

12:00-1:00 p.m.

SCH 107



A workshop detailing the do's and don'ts of effective research poster design.

**\*Please RSVP for the Poster Workshop at:**

<https://www.surveymonkey.com/r/SURPposter>



## Special Seminar with Dr. Crew Smith, Princeton MolBio Class of 2006

**Wednesday, July 13**

**12:00-1:00 p.m. (followed by round-table discussion)**

**SCH 107**

Join Dr. Smith for an intimate conversation on her educational journey from an Undergraduate Molecular Biology Student at Princeton University to earning her PhD in Cell Biology at Yale University. Learn what fascinating research she is conducting now, and receive valuable insight on your own educational and career paths in science.

**\*Please RSVP online by noon, Friday, July 8.**

<https://www.surveymonkey.com/r/SURPspecSem>

## Graduate School Information Session

With [Mala Murthy](#), Associate Professor of Molecular Biology and Princeton Neuroscience Institute

& Graduate School Adviser, Department of Molecular Biology

**Wednesday, July 20**

**12:00-1:00 p.m.**

[PNI A32](#)

Thinking about applying to graduate school? Professor Murthy (who is also on the admissions committee for the Neuroscience graduate program) will provide advice about the application process and also answer any questions you may have. Lunch served.



**\*Please RSVP for the Graduate School Info Session by noon Monday, July 18 at:**

<https://www.surveymonkey.com/r/gradschlRSVP>

## Career Symposium

**Thursday, July 21**

**Time: 5:30PM**

**SCH 107**



Former students return to discuss an assortment of interesting career paths. Dinner served.

### **Past Symposium Speakers Include:**

- MD/PhD student at Robert Wood Johnson/Princeton University.
- Research Assistant at the Science & Technology Policy Institute
- Scientific Associate at DE Shaw Research.
- Medical Copywriter at AgencyRx.
- Harvard Law Student studying biotech law

**\*Please RSVP for the Career Symposium:**

<https://www.surveymonkey.com/r/SURPcareer>

## Keys & Building Access

### ➤ Princeton students

Your Princeton ID card will give you access to Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF), Guyot (GUY), and Icahn (CIL) exterior and tunnel doors during off-hours. Your card should also have lab access if your lab has a card entry.

### ➤ Visiting students

Your prox card/fob issued by Conference Services will give you access to Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF), Guyot (GUY), and Icahn (CIL) exterior and tunnel doors during off-hours.

### ➤ All students

- **For keys and/or prox issues for labs located in Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF) or Guyot (GUY) buildings:**

Please contact Michael Fredericks at [mfrederi@princeton.edu](mailto:mfrederi@princeton.edu). You will need to pick up your key from his office in [Guyot Hall](#), room B-2 (lower/basement level).

- **For keys and/or prox issues for labs located Icahn (CIL) building:**

Please email Deb Grant at [dg4@princeton.edu](mailto:dg4@princeton.edu). You will need to pick up your key from her office in [Icahn Lab](#), room 071 (lower/basement level).

## Parking

➤ Parking permits will be issued to any student wishing to park on campus.

### ➤ Princeton students

Please report to Parking and Transportation Office to apply for a permit (New South Building, A Floor) <http://www.princeton.edu/parking/>

### ➤ Visiting students

Please register your car with Conference Services to learn where to park.  
[http://www.princeton.edu/parking/Parking\\_Lots.pdf](http://www.princeton.edu/parking/Parking_Lots.pdf)

➤ Public Safety will issue warnings on Monday June 6<sup>th</sup>.  
After that you will be ticketed.

## Network Info

### ➤ Visiting Students

A temporary Princeton University ID number, netID and email address has been created for you. To set up your account, please consult the email from OIT you received in April. Once the steps are completed, you will have access to your Princeton email account and the University network. OIT Account Activation info: <http://helpdesk.princeton.edu/kb/display.plx?ID=9973>

You can access your Princeton email account using **Exchange Webmail (OWA)**:  
<http://www.princeton.edu/main/tools/webmail/>

You can use “eduroam” for secured wireless access on campus. You can also temporarily connect to “puvisitor” and “test-puvisitor” for wireless access on campus. Your eduroam login is your Princeton netID + @princeton.edu (netID@princeton.edu). Eduroam instructions:  
<http://helpdesk.princeton.edu/kb/display.plx?ID=8020>

### ➤ Princeton Students

If you left campus during the break, you may not have network access. Dorm Internet access over the summer can be obtained at [www.princeton.edu/dormnet](http://www.princeton.edu/dormnet)

## Monitoring Of Illegal Downloads

### Princeton University Policies and Regulations:

"Members of the University community who engage in any activity that infringes copyright-protected materials may be subject to disciplinary action. Under circumstances involving repeated instances of infringement through the use of the University's computing network, such disciplinary action may include the termination or suspension of network privileges."

Civil or criminal action also may result from infringing activity.

Information about appropriate uses of University technology may be found in the University's core IT policy document (<http://www.princeton.edu/itpolicy/>). Additional information about copyright and technology at the University may be seen in “Guard against illegal use of copyrighted materials” (<http://kb.princeton.edu/9407>) and the "Copyright Basics" page published by Office of General Counsel (<http://web.princeton.edu/sites/ogc/copyrightbasics.htm>). More information regarding copyright generally may be viewed at the United States Copyright Office web site ([www.copyright.gov](http://www.copyright.gov)).

Fear of litigation should not be our reason for respecting the intellectual property rights of others. However, given the reality of increasingly aggressive legal action on the part of the entertainment industry, we encourage all members of the University community to be particularly mindful of our copyright policy and to consult the above-cited resources for further guidance as circumstances require.

Thank you for observing University policy and, in advance, for your cooperation in helping to raise awareness among others who may need the reminder

## Poster Session

*Share your summer research with members of the Princeton University scientific community!*

**Thursday, August 4**

**2:30-5:00 p.m.**

**Carl Icahn Atrium**

**Dinner served afterwards: Please RSVP by Aug 1 at:**

<https://www.surveymonkey.com/r/2016SURPdnr>

### **Abstracts:**

**All stipend-paid students must submit an abstract of their summer research.** The abstract should fit on one page and be 250 words. Make sure that your abstract has a title, followed by all authors, and then the text. Please underline your name.

**To submit an abstract, please email final draft of abstract to Melissa at [md20@princeton.edu](mailto:md20@princeton.edu) by 4:00pm, Friday July 29 so it can be included in the abstract book.**

### **Poster Printing:**

**To print your poster out as an entire sheet, please email the file to Melissa at [md20@princeton.edu](mailto:md20@princeton.edu) by 4:00pm, Thursday, July 28.**

### **MICROSOFT ADOBE PDF/POWERPOINT:**

The preferred application to create posters is Adobe Acrobat PDF format. Alternately, Microsoft PowerPoint for the PC files submitted in will also be accepted (Mac users should confirm that the file opens correctly in PowerPoint PC).

### **PAGE SETUP:**

The PowerPoint file should be a single slide with the file page setup size set to 44" wide by 36" high in landscape mode. Allow for a ½ inch margin.

### **COLOR and FILE SIZE:**

Individual figures and illustrations and text should use high contrast colors, as the poster printer output may differ from the output of a computer monitor. A white background is recommended. Fancy and solid backgrounds often cause problems during the printing process, are more costly and often times will not print at all. Avoid unusual fonts and keep file size to less than 18 MB (megabytes) or it won't print.

### **PROOFREAD:**

Print a small draft on your local printer. Carefully proofread and review your poster file to-be-printed before submitting it. We will be unable to re-print any posters.

### **TIPS FOR POSTER PRESENTATIONS:**

**Please see the links provided on page 17 and the following resources:**

- Harvard Medical School: Imaging Solutions for Scientific Communication  
[http://it.med.harvard.edu/pg.asp?pn=risc\\_handouts](http://it.med.harvard.edu/pg.asp?pn=risc_handouts)
- Dartmouth College: Guide to Designing and Printing a Research Poster  
<http://www.dartmouth.edu/~ugar/undergrad/posterinstructions.html>



## Summer Program Contacts

**Students with questions  
regarding research**

Please contact:

**Vanessa Gonzalez-Perez, PhD**

Program Co-Director

9A Guyot Hall

[vanessagp@princeton.edu](mailto:vanessagp@princeton.edu)

609-258-9623



**Students with  
administrative questions**

Please contact:

**Melissa DiMeglio**

MolBio Undergraduate Administrator

119E Lewis Thomas Lab

[md20@princeton.edu](mailto:md20@princeton.edu)

609-258-9455