

Summer Research Opportunities



AMSA's 2nd General Meeting
February 2nd, 2012

Short Term Educational Experiences for Research in Environmental Health for Undergraduate Students (STEER)

- Environmental health research
- 9 week summer program
- UC Berkeley Department of Public Health
- Requirements
 - 2-page application form
 - 2 letters of recommendation
 - 2-4 page goal statement
 - Brief interview



After applying...

- Paired with a Public Health professor
- Assigned an individual project
- Weekly seminars
- Multiple field trips





Apply Now!

- Deadline is March 23, 2012
- Download the application at <http://coeh.berkeley.edu/steer/index.html>
- Also check out UC Davis' NIEHS Undergraduate Summer Training in Environmental Toxicology
- www.envtox.ucdavis.edu/niehs_summer/
- Deadline: February 17th, 2012

Getting Involved in Research

- Use your connections

Getting Involved in Research

- Use your connections
- Familiarize yourself with the research

Getting Involved in Research

University of California, Berkeley College of Letters & Science Biology @ Berkeley Contact Us

Molecular & Cell Biology



HOME

ABOUT

ACADEMIC PROGRAMS

FACULTY AND RESEARCH

NEWS AND EVENTS

ADMINISTRATIVE SERVICES

DIRECTORY

YOU ARE HERE: [MCB HOME](#) > [FACULTY AND RESEARCH](#) > [FACULTY BY DIVISION](#)

Molecular & Cell Biology Faculty



The following is an alphabetical list of MCB faculty members and brief descriptions of their research. A list of faculty by division affiliation is available [here](#). Bowes fellows are at the **bottom**.

Click on a faculty member's name to see a complete description of their research (if available). Alternatively, use the search form below to search the faculty research interest pages for keywords.

Keywords:

Search

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

[\[Return to Top\]](#)

A

Hillel Adesnik

Assistant Professor of Neurobiology

Dynamics of neural circuits underlying information processing in the cerebral cortex.

Tom Alber

Chancellor's Class of '43 Professor of Biochemistry, Biophysics and Structural Biology

Structure/function correlates in tuberculosis, HIV/AIDS, molecular recognition and signaling

Mark Alper

Research Spotlight

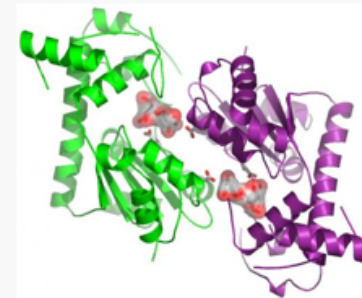


Image of the structure of the Mycobacterial sulfotransferase we call stf0.

Photo courtesy of Professor Carolyn R. Bertozzi.

To view more research images visit the [Research Spotlight](#)

Getting Involved in Research



PubMed

PubMed comprises more than 21 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#) 

PubMed Tools

[PubMed Mobile](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities](#)

[LinkOut](#)



You are here: NCBI > Literature > PubMed

[Write to the Help Desk](#)

GETTING STARTED

[NCBI Education](#)
[NCBI Help Manual](#)
[NCBI Handbook](#)
[Training & Tutorials](#)

RESOURCES

[Chemicals & Bioassays](#)
[Data & Software](#)
[DNA & RNA](#)
[Domains & Structures](#)
[Genes & Expression](#)

POPULAR

[PubMed](#)
[Nucleotide](#)
[BLAST](#)
[PubMed Central](#)
[Gene](#)

FEATURED

[GenBank](#)
[Reference Sequences](#)
[Map Viewer](#)
[Genome Projects](#)
[Human Genome](#)

NCBI INFORMATION

[About NCBI](#)
[Research at NCBI](#)
[NCBI Newsletter](#)
[NCBI FTP Site](#)
[NCBI on Facebook](#)

Getting Involved in Research

- Use your connections
- Familiarize yourself with the research
- Make sure you are interested in the subject

Getting Involved in Research

- Use your connections
- Familiarize yourself with the research
- Make sure you are interested in the subject
- Be prepared for rejection

Getting Involved in Research

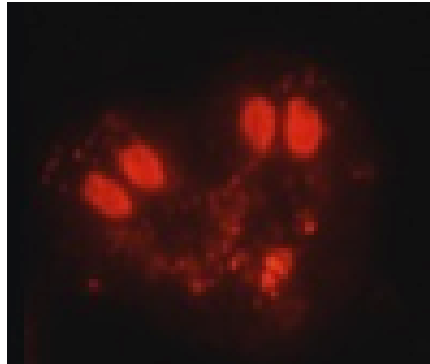
- Be flexible and open-minded

Getting Involved in Research

- Be flexible and open-minded
- Be professional

Summer Undergraduate Research Program (SURP)

- Through mcbUSA
- (Molecular Cell Biology Undergraduate Student Association)



Projects

- CHORI (Children's Hospital Oakland Research Institute)
- LBNL (Lawrence Berkeley National Lab)
- ESPM Dept. (Environmental Science, Policy, and Management)
- IB Dept.
- MCB Dept.
- PMB Dept. (Plant and Microbial Biology)
- UCSF

Application Details (2012)

- Available at: mcbusa.berkeley.edu
- Due February 29th
- Email to: mcbusa@gmail.com
- Hard-copy to MCB UAO (3060 VLSB)
- Must include **for each project**:
 1. Application
 2. Statement of interest
 3. Transcript with name
 4. Resume
 5. Interview

Program Information

- Full-time research apprenticeship program (~40 hours/week)
- Get paired with faculty mentor/researcher
- Possibility of continuing into following academic year
- Any academic credit (units) or stipends are up to faculty/PI of lab

My Project

- Cande Lab (MCB Dept.)
 - W. Zacheus Cande
 - MCB 134 - Cytogenetics
- Aurora kinases and cell-cycle regulation in *Giardia lamblia*
- Reverse genetics
- Molecular biology skills such as:
 - Cloning, transformations, PCR
 - Transfections
 - Protein purification
 - Western blot
 - Microscopy with fluorophores, tracking proteins *in vivo*
 - Tissue culture
 - Gel assays
 - Yeast assays

Summer Medical and Dental Education Program (SMDEP)

- FREE program for freshmen and sophomores
- Learn more about the medical field
 - Academic enrichment in basic sciences
 - Career development
 - Learning-skills seminar
 - Limited clinical exposure
 - Financial planning workshop

SMDEP Sites

- 12 different sites with various stipends and accommodations
- Includes UCLA, Columbia, Duke, University of Texas Houston, University of Virginia





Summer **M**edical and **D**ental
Education **P**rogram

Apply Now!

- Rolling deadline March 1st
- Requirements
 - Online application
 - Transcripts
 - 2 letters of recommendation
- www.smdep.org

China California Heart Watch

UCSF CTSI Pre-Health Undergraduate Program

- Summer clinical research training program
- 5 week research program
 - 1 week Pre-course lectures
 - 4 weeks of class
- Requirements
 - Unofficial transcript
 - 1 letter of recommendation
 - Resume
 - 600 word application essay
 - <http://accelerate.ucsf.edu/training/pup>

Sansum Diabetes Research Summer Internship Program in Biologic/Medical Sciences

- Primary focus on diabetes mellitus
- Wide variety of research and activities
- For upper-class undergraduates
- 10 week program
- Work under Chief Scientific Officer Lois Jovanovic, MD
- Shadow physicians in various fields
- Work on assigned project
- Attend research program presentations

Hugh Edmondson Research Internship

- Health sciences research opportunity
- Pathology laboratories & faculty mentors
- Weekly lectures & problem-based learning exercises
- Deadline: March 1st
- Application requirements
 - Completed application form
 - 2 letters of reference from instructors
 - Transcript
 - Statement of personal interest
 - http://www.ucdmc.ucdavis.edu/pathology/education/edmondson_research_fellowship/Application.html

Apply Now!

- Deadline: April 1st
- <http://www.sansum.org/training-and-education/summer-internship-program/>
- Requirements
 - Application statement
 - 2 letters of recommendation
 - Transcript

AMSA Reminders

- To become a member, fill out registration at amsa.berkeley.edu!
- Committee applications due SATURDAY, Feb 4th at 11:59 PM
 - Applications on our website & in email

Next week...



- AMSA's 3rd General Meeting
- Learn how climate change affects our health!
- Thursday, Feb 9th from 7-8 PM
- 2063 VLSB