



Department of
LAND, AIR AND WATER RESOURCES
 University of California, Davis
 Climate Change • Sustainable Agriculture
 Environmental Quality • Landscape Processes

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STUDENT SCENE ACADEMIC PROGRAMS **DIRECTORY** NEWS & EVENTS INTRANET COOPERATIVE EXTENSION JOBS ALUMNI & FRIENDS

Directory » Faculty

DEPT CHAIR/VICE
CHAIRS

FACULTY

ATMOSPHERIC SCIENCE

HYDROLOGY

SOILS &
BIOGEOCHEMISTRY

COOPERATIVE EXTENSION

EMERITI

STAFF

METRO STAFF

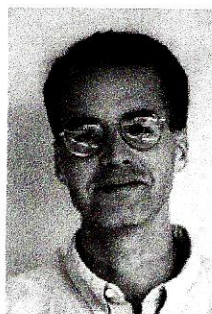
RESEARCHERS

GRAD STUDENTS

COMMITTEES

FACILITIES

PDF DIRECTORY



Cort Anastasio

Professor of Tropospheric Chemistry and Assistant Tropospheric Chemist

Email: canastasio@ucdavis.edu

Office: 3146 Plant and Environmental Sciences Building

Phone: 530-754-6095 **Fax:** 530-752-1552

Personal Professional Website: <http://anastasio.lawr.ucdavis.edu/>

Research: [Grants](#)

Publications: [Complete List](#)

Degrees:

Sc.B. Chemistry - Brown University, Providence, Rhode Island

Ph.D. Atmospheric Chemistry - Duke University, Durham, North Carolina

Interests:

Graduate Group Membership:

Atmospheric Science Graduate Group

Agricultural and Environmental Chemistry Graduate Group

Courses:

ATM 6: Fundamentals of Atmospheric Pollution (3 Units, Fall Quarter)

ATM 30: Issues in Atmospheric Science (2 Units, Winter Quarter)

ATM 160: Introduction to Atmospheric Chemistry (3 Units, Fall Quarter)

ATM 260: M- Atmospheric Chemistry (3 Units, Spring Quarter)

Committees:

ASGG: Graduate Advisor (Chair) ASGG: Fellowship Committee ASGG: ad hoc Curriculum Committee (Chair) Other: Undergraduate Majors and Courses Subcommittee Other:

Selection Committee, Crosby Graduate Fellowship in Environmental Chemistry Other: Air Quality Research Center (AQRC) ORU Steering Committee (Chair)

Contact | Department of Land, Air and Water Resources | University of California, Davis

State Worker Salary Database

Updated July 3, 2014: Now includes 2013 University of California pay, 2013 civil service pay, 2013 CSU pay, and 2012 state legislative pay.

This database allows you to search the salaries of California's 300,000-plus state workers and view up to seven years of their pay history.

Search by name or department. For quicker searches, use first and last name.

Sources: University of California President's Office, California State Controller's Office, California Legislature

Search employees

cort anastasio	UC Davis	▼	2013	▼	search
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Employees named "cort anastasio" in the UC Davis for 2013

Page 1

<u>Name</u> ▼	<u>Department</u>	<u>Title</u>	<u>Pay</u>
Cort Anastasio	UC Davis	Agron Aes	\$113k

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Explore departments

Afro-american Museum	▼	2013	▼	explore
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Top salaries

2013	▼	show
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Top Salaries of 2013 (Civil Service, CSU and UC only)

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Search employees

cort anastasio	UC Davis	▼	2012	▼	search
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Employees named "cort anastasio" in the UC Davis for 2012

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<u>Name</u> ▼	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Cort Anastasio</u>	UC Davis	Agron Aes	\$108k

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Explore departments

Afro-american Museum	▼	2013	▼	explore
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Top salaries

2013	▼	show
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Top Salaries of 2013 (Civil Service, CSU and UC only)

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Search employees

cort anastasio	UC Davis	▼	2011	▼	search
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Employees named "cort anastasio" in the UC Davis for 2011

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<u>Name</u> ▼	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Cort Anastasio</u>	UC Davis	Err:509	\$102k

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Explore departments

Afro-american Museum	▼	2013	▼	explore
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Top salaries

2013	▼	show
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Top Salaries of 2013 (Civil Service, CSU and UC only)

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Search employees

cort anastasio	UC Davis	▼	2010	▼	search
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Employees named "cort anastasio" in the UC Davis for 2010

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<u>Name</u> ▼	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Cort Anastasio</u>	UC Davis	#name?	\$97.2k

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Explore departments

Afro-american Museum	▼	2013	▼	explore
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Top salaries

2013	▼	show
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Top Salaries of 2013 (Civil Service, CSU and UC only)

Sarjeet Gill

Sarjeet S. Gill

Professor Cell Biology and Neuroscience and Entomologist

Biography

Mechanisms of toxicity and membrane transport

The lab has three principal research areas all utilizing a cellular and molecular approach to elucidate the mechanisms of toxicity and cell membrane transport. The focus of the first area is to elucidate the mode of action of toxins derived from *Bacillus thuringiensis* and *Clostridium bifermantans*. The research aims to gain a molecular understanding of the characteristics of these toxins and how they interact with cellular targets, which result in a disruption of ion regulation and lethality. Current research projects include the elucidation of structure and function relationships of these bacterial toxins; toxin receptor isolation and an attempt to define how these receptors modulate in vivo toxicity.

A second research focus is on insect cell membrane transport, and how toxins affect this function.

Currently, the laboratory is characterizing ion and amino acid transporters. The lab is focusing on the Na⁺/H⁺ exchangers that play a key role in transport of high salt load on mosquitoes following a blood meal. Studies include functional analysis and regulation of these exchangers in the mosquito Malpighian tubules. In conjunction with this effort the lab is also characterizing transport processes involved in nutrient uptake following a blood meal, and the regulation of such transport.

Finally, the lab has a long ongoing interest in xenobiotic metabolism and characterization of the effects of environmental toxicants on mammalian systems. This molecular toxicology emphasis defines how toxicants regulate the expression of the soluble epoxide hydrolase and fatty acid metabolism.

Publications

- Dhadialla TS. and Gill SS. 2014. *Advances in Insect Physiology Vol.17: Insect Midgut and Insecticidal Proteins*. Elsevier Academic Press, 423p.
- Qureshi N, Chawla S, Likitvivanavong S, Lee HL, Gill SS. 2014. The Cry toxin operon from *Clostridium bifermantans malaysia* is highly toxic to *Aedes* larval mosquitoes. *Appl Environ Microbiol*. 80:5689-5697. [Epub ahead of print] 2014 Jul 7. pii: AEM.01139-14.
- Lee SB, Chen J, Aimanova KG, Gill SS. 2014. *Aedes* cadherin mediates the in vivo toxicity of the Cry11Aa toxin to *Aedes aegypti*. *Peptides*. doi: 10.1016. [Epub ahead of print]
- Bunnik EM, Polishko A, Prudhomme J, Ponts N, Gill SS, Lonardi S, Le Roch KG. 2014. DNA-encoded nucleosome occupancy is associated with transcription levels in the human malaria parasite *Plasmodium falciparum*. *BMC Genomics*. 2014 May 8;15:347. doi: 10.1186/1471-2164-15-347.
- Gómez I, Sánchez J, Muñoz-Garay C, Matus V, Gill SS, Soberón M, Bravo A. 2014 *Bacillus thuringiensis* Cry1A toxins are versatile proteins with multiple modes of action: two distinct pre-pores are involved in toxicity. *Biochem J*. 459:383-296.
- Cantón PE, López-Díaz JA, Gill SS, Bravo A, Soberón M. 2014. Membrane binding and oligomer membrane insertion are necessary but insufficient for *Bacillus thuringiensis* Cyt1Aa toxicity. *Peptides*. 53:286-291.
- Chen J, Likitvivanavong S, Aimanova KG, Gill SS. 2013. A 104 kDa *Aedes aegypti* aminopeptidase N is a putative receptor for the Cry11Aa toxin from *Bacillus thuringiensis* subsp. *israelensis*. *Insect Biochem Mol Biol*. 2013 43:1201-1208.
- López-Díaz JA, Cantón PE, Gill SS, Soberón M, Bravo A. 2013. Oligomerization is a key step in Cyt1Aa membrane insertion and toxicity but not necessary to synergize Cry11Aa toxicity in *Aedes aegypti* larvae. *Environ Microbiol*. 15, 3030-3039.



Phone: (951) 827-4621
 Fax: (951) 827-3087
 Office Location: 3117 Biological Sciences
 Office Hours:
 Email: sarjeet.gill@ucr.edu

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Search employees

Employees named "sarjeet gill" in the UC Riverside for 2013

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<u>Name ▼</u>	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Sarjeet S Gill</u>	UC Riverside	Agron Aes	\$187k

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Top salaries

Top Salaries of 2013 (Civil Service, CSU and UC only)

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Search employees

Employees named "sarjeet gill" in the UC Riverside for 2012

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<u>Name ▼</u>	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Sarjeet S Gill</u>	UC Riverside	Agron Aes	\$185k

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Top salaries

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Search employees

<input type="text" value="sarjeet gill"/>	<input type="text" value="UC Riverside"/>	<input type="button" value="▼"/>	<input type="text" value="2011"/>	<input type="button" value="▼"/>	<input type="button" value="search"/>
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Employees named "sarjeet gill" in the UC Riverside for 2011

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<u>Name</u> ▼	<u>Department</u>	<u>Title</u>	<u>Pay</u>
<u>Sarjeet S Gill</u>	UC Riverside	Err:509	\$181k

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Explore departments

<input type="text" value="Afro-american Museum"/>	<input type="button" value="▼"/>	<input type="text" value="2013"/>	<input type="button" value="▼"/>	<input type="button" value="explore"/>
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Top salaries

<input type="text" value="2013"/>	<input type="button" value="▼"/>	<input type="button" value="show"/>
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Top Salaries of 2013 (Civil Service, CSU and UC only)

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Search employees

Employees named "sarjeet gill" in the UC Riverside for 2010

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<u>Name ▼</u>	<u>Department</u>	<u>Title</u>	<u>Pay</u>
Sarjeet S Gill	UC Riverside	#name?	\$165k

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Top salaries

Top Salaries of 2013 (Civil Service, CSU and UC only)