

Center for Plant Cell Biology
Fiscal Year 2007-08

ANNUAL REPORT

(Report must be typed or Word processed - handwritten forms will not be accepted. Four copies of this annual report should be routed to the Office of Research.)

Center Director: Natasha Raikhel

Title: Director, Distinguished Professor of Plant Cell Biology

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Department: Botany & Plant Sciences

Email: nraikhel@ucr.edu

College: College of Natural & Agricultural Sciences

Period of Review: 2007-08

Name of Center:

Center for Plant Cell Biology



Director's Signature

Date

Department Chair's Signature

Date

Dean's Signature

Date

NOTICE OF ACTION

The Vice Chancellor for Research has reviewed the annual report and has scheduled a follow-up meeting with the Center Director and Dean at _____ on _____ in _____.

Charles F. Louis

Vice Chancellor for Research

Date

INSTRUCTIONS: Please submit four (4) copies of this review to the UCR Office of Research, University Office Building Room 200 and (1) copy to the College Dean as appropriate. For information about the process for preparing an annual report, please contact the Office of the Vice Chancellor for Research at 951.827.5535.

A1. GENERAL NARRATIVE: Please provide a short statement highlighting the main activities in which the center has engaged during the review period and how they relate to the mission, goals and objectives of the research center and to the challenges/issues/problems central to the work of the research center. How did the center contribute to UCR's graduate and undergraduate teaching programs? What activities did the center provide to UCR's external communities?

MAIN ACTIVITIES RELATED TO MISSION, GOALS, AND OBJECTIVES:

1. **Weekly CEPCEB Seminar Series [see Attachment]:**

Invited prominent speakers, as well as CEPCEB faculty and postdocs, present and discuss noteworthy research discoveries in the field of plant biology. The seminar series offers an opportunity for collaborations to be established across disciplines, institutions and levels of experience. The seminars are scheduled weekly and advertised on the CEPCEB website:

2007: <http://cepceb.ucr.edu/news/seminarsCEPCEB2007.htm>

2008: <http://cepceb.ucr.edu/news/seminarsCEPCEB2008.html>

They are also advertised on the IIGB website:

[http://genomics.ucr.edu/calendar/events/index.php?com=searchresult&s="09/09/08"&e=01/01/2020&k=&t=3](http://genomics.ucr.edu/calendar/events/index.php?com=searchresult&s=)
(CEPCEB)

2. **Active CEPCEB ChemGen IGERT Seminar Series [see Attachment]:**

Prominent scientists with expertise in chemical genomics, chemistry, engineering, bioinformatics/computational sciences, and cell biology are featured. CEPCEB ChemGen IGERT graduate students are directly involved in inviting and hosting these speakers, which enhances their exposure to outstanding scientists and provides contacts that may be of value for many years to come. IGERT Seminars are advertised on the:

CEPCEB IGERT website (http://cepceb.ucr.edu/IGERT/IGERT_Seminars.htm)

IIGB website:

[http://genomics.ucr.edu/calendar/events/index.php?com=searchresult&s="/"&e=01/01/2020&k=&t=5](http://genomics.ucr.edu/calendar/events/index.php?com=searchresult&s=)

3. **CEPCEB Chem/Gen IGERT Annual Retreat (November 2-4, 2007):**

To prepare graduate students participating in the ChemGen IGERT (Integrative Graduate Education and Research Trainee) program, currently in its fourth year, for their interdisciplinary future, an intensive two-day retreat is held annually. The retreat agenda is designed to foster effective interaction and communication between students and faculty of different academic backgrounds, and includes: presentations on current and future projects by participating faculty; an invited keynote speaker who presents on a novel research perspective that is apropos or ancillary to chemical genomics; open discussions; team building activities; interactive workshops; and concludes with formal presentations by students.

2007 CEPCEB ChemGen IGERT Retreat Speakers and Session Chairs:

The third annual CEPCEB ChemGen IGERT Retreat was held at a different location from the previous two years - the Warner Springs Ranch in San Diego County - as it was also attended by members from the University of California, San Diego Plant Systems Biology IGERT program. The event was successful this year in demonstrating the development of a very vibrant chemical genomics program at UCR with not only a true chemical component but also a very visible computational one. The retreat opened with a talk by the ChemGen IGERT Associate Director, Sean Cutler, titled "Molecular Dissection of a Small Molecule ABA Agonist" on Friday evening, November 2nd, and continued throughout the weekend with 13 graduate students, five faculty members, and two postgraduate/professional researchers discussing projects involving chemical genomic approaches. The presence of four students from UCSD's IGERT program allowed for an additional exchange of ideas and opportunities for potential collaborations. For further information, please visit:

http://cepceb.ucr.edu/IGERT/IGERT_Retreat.htm.

2007 CEPCEB ChemGen IGERT Retreat Speakers and Session Chairs:

RETREAT SPEAKER	TITLE	DEPT/GRAD PROGRAM	DISCUSSION LEADER?
FACULTY AND OTHER ACADEMICS			
Michael Pirrung	Professor	Chemistry	YES
Sean Cutler	Assistant Professor	Botany & Plant Sciences	YES
Wenbo Ma	Assistant Professor	Plant Pathology & Microbiology	
Glenn Hicks	Assistant Research Plant Cell Biologist	Botany & Plant Sciences	
Cynthia Larive	Professor	Chemistry	
Thomas Eulgem	Assistant Professor	Botany & Plant Sciences	YES
Patricia Springer	Associate Professor	Botany & Plant Sciences	
Shou-wei Ding	Professor	Plant Pathology & Microbiology	
Thomas Girke	Assistant Professor	Botany & Plant Sciences	
Marcela Pierce	Postgraduate Researcher	Botany & Plant Sciences	
Andrew Defries	Graduate Student	Plant Biology	
Eddie Cao	Graduate Student	Computer Science	
Jolene Diedrich	Graduate Student	Analytical Chemistry	
Augusta Jamin	Graduate Student	Cell, Molecular & Developmental Biology	
James Kim	Graduate Student	Cell, Molecular & Developmental Biology	
Michelle Brown	Graduate Student	Genetics, Genomics & Bioinformatics	
Kayla Hamersky	Graduate Student	Chemistry	
Charles Jang	Graduate Student	Genetics, Genomics & Bioinformatics	
Theresa Dinh	Graduate Student	Plant Biology	
Minday Salus	Graduate Student	Plant Biology	
Colleen Knoth	Graduate Student	Plant Biology	
Samer Elkashef	Graduate Student	Genetics, Genomics & Bioinformatics	
Christiana Merrywell	Graduate Student	Chemistry	

4. **NSF CEPCEB Research Experience for Undergraduates (REU) Symposium:**

An NSF CEPCEB REU (<http://cepceb.ucr.edu/about/REUAfter2007.html>) Poster Symposium was held on Friday, August 17, 2007 In Keen Hall's lobby area where 12 students in the 2007 summer residential program presented talks summarizing their research projects. Now in its sixth year, the CEPCEB REU program has successfully trained 62 students since the program's inception in 2002, and many undergraduates have since pursued graduate studies in the field of plant biology due to this experience. Of the 46 tracked since the program's inception, 26 students are in or planning to enroll in a science/medical-based graduate program and 12 students transferred to UCR.

5. **CEPCEB Principal Investigator Luncheons:**

Early in 2006, CEPCEB initiated a program of quarterly luncheons for principal investigators within the Center for the purpose of exchanging scientific ideas and stimulating interactions and collaborations. Turnout has consistently been high for these meetings.

PI Luncheon Speakers for FY 2007—08:

Karine Le Roch—Asst. Professor, Cell Biology & Neuroscience
Guanshui Xu—Professor, Mechanical Engineering
Zhenbiao Yang—Professor, Botany & Plant Sciences
An Yan—Graduate Student, Botany & Plant Sciences

6. **Annual CEPCEB Award Ceremony and Noel Keen Lecture:**

Postdoctoral, graduate student, undergraduate student and high school students achieving research excellence in the fields of plant cell biology, genomics, bioinformatics or engineering were recognized at the Sixth Annual CEPCEB Award Ceremony and Noel Keen Lecture on January 18, 2008, and a leading scientist in one of these fields was invited as the Noel Keen Special Lecturer. CEPCEB faculty, postdocs and students serve on the award committee.

- a. Dr. Gloria Coruzzi, Carroll and Milton Petrie Professor and Chair of the Department of Biology at New York University was the 2008 Noel Keen Special Lecturer
- b. Outstanding postdoctoral, graduate Student and Undergraduate Student Research Award recipients, accordingly:
MARCELA ROJAS-PIERCE and EUN-JU (JULIE) SOHN (Botany & Plant Sciences/Natasha Raikhel Lab)
COLLEEN KNOTH (Botany & Palnt Sciences/Thomas Eulgem Lab)
ZUH JYH (DANIEL) LIN (Botany & Plant Sciences/Venugopala G. Reddy Lab)

CENTER'S CONTRIBUTIONS TO UCR'S GRADUATE AND UNDERGRADUATE TEACHING PROGRAMS:

Stipends for ChemGen IGERT International Students:

To ensure cross-disciplinary student training, the Center for Plant Cell Biology provided a stipend of \$30k/yr for two international students for two years (total of \$120k) to participate in the pioneering ChemGen IGERT Program. The goal of this innovative training program is to provide students with a team-based research environment that intercalates engineers, chemists and bio-informaticians into research teams with cell biologists. Students in this program have two major professors from two disciplines and attend lab meetings from both research groups. IGERT Students also mentor students participating in the CEPCEB REU program (2005-10). Since NSF funding is only available to domestic applicants, CEPCEB is contributing additional resources (\$120K) to allow international students the opportunity to become adept practitioners in the new field of chemical genomics. The first international student has been selected and funding started Summer 2007.

Participating CEPCEB Faculty in the ChemGen IGERT Program: http://cepceb.ucr.edu/IGERT/IGERT_Faculty.htm

Participating CEPCEB Labs Mentoring ChemGen IGERT Students:

First Year	IGERT Student	Graduate Program	Email	CEPCEB Lab Rotations	REU STUDENT MENTORED BY IGERT STUDENT
2005-06	SAMER ELKASHEF	Genetics, Genomics and Bioinformatics	selka001@ucr.edu	Shou-wei Ding, Plant Pathology Yinsheng Wang, Chemistry	Lauren Quesada (CEPCEB REU 2007)
2005-06	CHARLES JANG	Genetics, Genomics and Bioinformatics	cjang001@student.ucr.edu	Julia Bailey-Serres, Botany & Plant Sciences Thomas Girke, CEPCEB Bioinformatics	Daniel Swank (CEPCEB REU 2007)
2005-06	JAMES KIM	Cell, Molecular and Developmental Biology	jkim082@ucr.edu	Kathy Borkovich, Plant Pathology Cynthia Larive, Chemistry	Zhen (Michael) Qin (CEPCEB REU 2007)
2005-06	COLLEEN KNOTH	Plant Biology	colleen.knoth@email.ucr.edu	Thomas Eulgem, Botany & Plant Sciences Thomas Girke, CEPCEB Bioinformatics	Jon Ringler (CEPCEB REU 2004)
2005-06	CHRISTIANA MERRYWELL	Chemistry	cmerr001@ucr.edu	Cynthia Larive, Chemistry Natasha Raikhel, Botany & Plant Sciences	Thao Nguyen (Bioanalytical Science REU 2006)
2006-07	EDDIE CAO	Computer Science	ycao@bioinfo.ucr.edu	Thomas Girke, CEPCEB Bioinformatics	
2006-07	JOLENE DIEDRICH	Analytical Chemistry	jdied001@student.ucr.edu	Wenwan Zhong, Chemistry Ryan Julian, Chemistry	Christine Reder (Bioanalytical Science REU 2007)
2006-07	THERESA DINH	Plant Biology	tdinh007@ucr.edu	Xuemei Chen, Botany & Plant Sciences	Rhonda Egidy (CEPCEB REU 2007)
2006-07	AUGUSTA JAMIN	Genetics, Genomics and Bioinformatics	aujamin@gmail.com	Zhenbiao Yang, Botany & Plant Sciences	Alex Pava (CEPCEB REU 2007)
2006-07	KAYLA KAISER	Analytical Chemistry	khame001@student.ucr.edu	Cynthia Larive, Chemistry Julia Bailey-Serres, Botany & Plant Sciences	Archie Taylor (Bioanalytical Science REU 2007)
2007-08	SEAN BOYLE	Genetics, Genomics and Bioinformatics	sboyl001@student.ucr.edu	Stefano Lonardi, Computer Science & Eng. Michael Pirrung, Chemistry	
2007-08	MICHELLE BROWN	Genetics, Genomics and	michelle.brown@email.ucr.edu	Natasha Raikhel, Botany & Plant Sciences	

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		Bioinformatics			
2007-08	ANNA CHARISI	Genetics, Genomics and Bioinformatics	acharisi@cs.ucr.edu	Thomas Girke, CEPCEB Bioinformatics	
2007-08	ANDREW DEFRIES	Plant Biology	andrewd@ucr.edu	Sean Cutler, Botany & Plant Sciences	
2007-08	MELINDA SALUS	Plant Biology	msalu001@ucr.edu	Thomas Eulgem, Botany & Plant Sciences	
2007-08	MELISSA SMITH	Plant Biology	msmit024@student.ucr.edu	Linda Walling, Botany & Plant Sciences	

CEPCEB Research Experiences for Undergraduates (REU) Program (2005-10)

The NSF Research Experience for Undergraduates (REU) program was first awarded to CEPCEB researchers in 2002 for a period of three years, and renewed in 2005 for five years. As an NSF REU Site, CEPCEB brings research experiences to students of two- and four-year colleges who have limited opportunity to learn about the excitement and career options that research in plant cell biology offers. Eight to twelve students are accepted into the ten-week residential program. The program begins with a one-week workshop, in which students are introduced to techniques and approaches used for analysis of plant and plant fungal pathogen cell function, including basic molecular biology, genomic and bioinformatic analyses, and confocal microscopy methods used to study live cells. Students then spend nine weeks working with a faculty mentor and a graduate or postgraduate mentor on a research project of their choice. Students also participate in workshops to enhance learning skills and professional development, and to discuss ethics in science. Thus far (incl. Summer 2007), 62 undergraduate students have been trained in CEPCEB labs since the program's inception.

Participating Faculty in the CEPCEB REU Program: <http://cepceb.ucr.edu/about/REUAd2008.html#UnderGradTrain> .

The following 12 students participated in the 2007 REU Program in CEPCEB Labs and presented a poster session at the REU Symposium on Friday, August 17, 2007.

REU Student	College/University	CEPCEB Faculty	Mentor
Maressa Bell-Deane	Mt. Holyoke, South Hadley, MA	Raikhel Lab	Abel Rosado Rey
Tiffany Carmona	Riverside Community College, Riverside, CA	Smith Lab	Harley Smith
Rhonda Egidy	Pittsburg State University, Pittsburg, KS	Chen Lab	Theresa Dinh
Shonnette Grant	Clafin University, Orangeburg, SC	Jin Lab	Chellappan Padmanabhan
Tom Hirschauer	University of Dayton, Dayton, Ohio	Judelson Lab	Howard Judelson
Daniel Lin	University of California, Berkeley, CA	Reddy Lab	Zhenhua Ding
Ugoeze Nwokedi	El Camino College, Torrance, CA	Girke Lab	Kevin Horan
Alex Paya	Ohio Wesleyan, Delaware, OH	Yang Lab	Augusta Jamin
Zhen Qin	University of California, Berkeley, CA	Borkovich Lab	James Kim
Lauren Quezada	Loyola Marymount, Los Angeles CA	Ding Lab	Samer Elkashef

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Sonia So	University of Arizona, Tucson, AZ	Cutler Lab	Andrew Defries
Daniel Swank	Riverside Community College, Riverside, CA	Bailey-Serres Lab	Charles Jang

NSF Science & Technology Center Preproposal (due October 14, 2008):

See below.

OUTREACH ACTIVITIES:

High School Recipients of CEPCEB Plant Cell Biology Awards at Science Fairs (judged by CEPCEB faculty)

- a. California State Science Fair held May 20, 2008: CEPCEB awarded a CEPCEB Plant Cell Biology Award (\$1000) acknowledging scientific achievement in the fields of cell and molecular biology, genomics, bioinformatics, or technology development to SRAVYA RAMADUGU KEREMANE from the John W. North High School in Riverside, CA. CEPCEB researchers Marcela Pierce and Eun-Ju Sohn from the Botany & Plant Sciences department attended and evaluated presentations at the California State Science Fair held on May 20, 2008 and presented Ms. Keremane a cash prize (\$1000) for her poster titled "Biochemical Analysis of the Mechanisms of Cold Tolerance in Citrus."
- b. Inland Science and Engineering Fair in San Bernardino, California held April 16, 2008: Ms Keremane also received CEPCEB's first place award at the regional Inland Science Fair the for the same poster. The Inland Fair is an annual competition of science projects designed, developed, and displayed by elementary and secondary students from schools in Riverside, Inyo, Mono and San Bernardino (RIMS) counties. CEPCEB annually acknowledges scientific achievement at this fair in the fields of cell and molecular biology, genomics, bioinformatics, or technology development by a student in grades 9-12. The recipient of this award receives \$100, a CEPCEB Award Certificate, and is invited to participate in the annual CEPCEB Noel T. Keen Lecture and Award Ceremony. Harley Smith, Assistant Professor in the Botany & Plant Sciences department and CEPCEB Award Committee Chair, participated as a judge in this event.
- c. All award recipients are acknowledged on the CEPCEB and IIGB websites:
CEPCEB website: (<http://cepceb.ucr.edu/news/news.htm#RIMS08>)
IIGB website: (<http://genomics.ucr.edu/news/news-details.php?id=25>)

NSF Science & Technology Center Preproposal (due October 14, 2008):

See below.

A2. RESEARCH NARRATIVE: Please summarize any significant trends (new research directions, significant increases or decreases in sponsored funding, changes in outreach efforts, etc.) during the review period.

Chemical Genomics

A powerful new research approach embraced at CEPCEB stimulating interdisciplinary research efforts is chemical genomics, which is also the foundation of the CEPCEB Chemical Genomics IGERT Program for graduate student training. This is an emerging field at the intersection of chemistry and biology that focuses on the screening of thousands of drug-like chemicals on living organisms using robotic instrumentation for highly automated handling of chemicals and biological samples. Currently, chemical libraries (>60,000 compounds) are housed on the first floor of Keen Hall in dedicated freezers as well as fluid robotics (Microscopy and Genomics Cores), chemical database tools (Bioinformatics Core) and expertise in biological screening of chemicals (Glenn Hicks; David Carter) along with PIs, postdocs and students spread across departments. At the Keen Hall Core Instrumentation Facilities, training and use of fluidics robots are provided, and as well as microscopy-based screens training through the Microscopy Core. The Institute for Integrative Genome Biology is organizing a rate structure for access to chemical libraries in order to maintain and expand collections. To date, the cost of library acquisition has been through grants.

High throughput screening for chemical genomics is an increasingly important area of research. Much of this is funded by the IGERT chemical Genomics program. A 46,000 chemical pollen germination inhibitor screen was completed using the methodology of Robert et. al. 2008. A secondary screen was carried out on the Leica SP2, looking for mislocalization of five GFP labeled endomembrane markers. These chemicals may be useful in teasing apart the pathways for trafficking of proteins within a cell. This has been part of a fruitful collaboration between the University

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of Gent, Belgium, and Natasha Raikhel's lab. The Cutler lab has been heavily involved in getting new chemical libraries online and developing robotic handling capability and yeast assays which can screen thousands of compounds a day.

NSF Science & Technical Center Preproposal:

Federal funding was definitely more restrictive and less available throughout the 07-08 fiscal year. Due to this, CEPCEB is in the process of building upon already established research programs (NSF REU and IGERT), which have their basis in chemical biology. Several researchers within the Center are currently preparing an NSF Science and Technology Center preproposal in the area of plant chemical genomics for submission October 14, 2008, with strong outreach/education, entrepreneurial/business, and research components. The grant is complex and involves travel, intellectual property, and discussions with the Keck Graduate Institute, Mendel Biotechnologies, UC Santa Barbara and the Graduate School of Education at UCR. If successful, this will bring resources to about 20 labs in the plant sciences and chemistry as well as providing infrastructure at UCR in chemical screening. There is also a significant educational outreach effort involving the training of undergraduate students, graduate students, postdocs, and middle and high school teachers. The grant will also include funding for instrumentation in the microscopy and proteomics cores which will permit further growth of CEPCEB and IIGB. Based on current budget assumptions of a total award amount of \$25,000,000, we are anticipating approximately \$5,500,000 - \$6,500,000 of total indirect costs over the five-year period. If awarded, there is also a strong possibility of renewal for an additional five years.

Supercomputer:

In an effort to meet researchers' needs and keep UCR competitive with extramural funding agencies, the Center also increased its high-performance computing capacity with the acquisition of a new supercomputer in the Bioinformatics Core at Keen Hall. The new supercomputer, a Linux blade cluster system called "Biocluster," was purchased for \$280,000 by CEPCEB's Bioinformatics Facility. It significantly reduces the computing time of large-scale genome analysis, drug discovery and simulation studies for many research projects. The new supercomputer from Verari Systems has 256 CPU cores (64x Xeon Quad Harpertown, 12 MB cache), 640 GB of total RAM and the latest Infiniband interconnect. Its high-memory node has a total of 64 GB of usable memory available for a single process. If needed, the memory on this node can be expanded to a total of 192 GB. Currently, research programs in all bioscience, biomedical, engineering and statistics departments are using Biocluster for a moderate user fee, including researchers not affiliated with UCR.

The supercomputer and CEPCEB's state-of-the-art bioinformatics infrastructure was also instrumental in the successful recruitment of three faculty members in computational biology during the 07-08 fiscal year.

Bazhenov, Maksim – Assoc. Professor, Cell Biology & Neuroscience (eff. 7/08)

Chang, Chia-en Angelina – Asst. Professor, Chemistry (eff. 1/08)

Jason Stajich – Asst. Professor, Plant Pathology & Microbiology (eff.

Microscopy:

A luminescence dark box imager is now online and is being used for screening gene activity at extremely low copy number in Arabidopsis, and is also being used for mouse imaging, in collaboration with the Radio Biology Program at Loma Linda University. The Loma Linda group is looking at the effect of proton therapy irradiation on brain tissue, and luminescence allows a single mouse to be both experiment and control for multiple time points without being sacrificed. Fluorescence imaging capability has just been added to this instrument for imaging in a range of colors from UV to near infra-red, and will be used to study nanoparticle distribution in live mice.

Proteomics:

In the Proteomics Core, there have been more research demands in quantitative proteomics, targeted analyses, and post-translational modification mapping than general profiling. Demands in chemical biology related small molecule/metabolites analyses have just emerged. There has also been more rapid growth in mammalian related research projects than other areas. Individual projects are usually long-term projects requiring extensive efforts from both PI labs and the core facility. The cost can be a negative factor in promoting proteomics research.

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A3. ORGANIZATIONAL AND MANAGEMENT STRUCTURE: Have any changes been made to the organizational or management structure of the center during the review period? If so, please describe.

NEW MEMBERS:

In FY 2007-08, the following faculty accepted invitations to join the Center for Plant Cell Biology. Currently, 50 faculty (+2 Academic Coordinators) from 12 departments are CEPCEB members.

Bazhenov, Maksim – Cell Biology & Neuroscience (eff. 7/08)
Chang, Chia-en Angelina – Chemistry (eff. 1/08)
Lyubovitsky, Julia – Bioengineering (eff. 1/08)
Roy-Chowdhury, Amit K. – Electrical Engineering (eff. 9/07)

LEADERSHIP:

The following faculty assumed notable roles in FY 2006-07:

CEPCEB Seminar Committee:

Faculty Members:

Venu Reddy (Chair) –Botany and Plant Sciences
Xuemei Chen – Botany and Plant Sciences
Tao Jiang – Dept. of Computer Science and Engineering

CEPCEB Noel T. Keen Lecture and Award Committee:

Award Committee Members:

Faculty Members:

Harley Smith (Award Committee Chair) –Botany and Plant Sciences
Xinping Cui –Statistics
Yinsheng Wang –Chemistry

Other Academics:

David Carter – CEPCEB Microscopy Core
Marci Surpin –Botany & Plant Sciences

Graduate Student:

James Kim – Cell, Molecular and Developmental Biology Graduate Student/CEPCEB Chem/Gen IGERT Program

CEPCEB Principal Investigator Luncheons:

Coordinator: Zhenbiao Yang –Botany & Plant Sciences

NSF CEPCEB REU Program:

Director: Patricia Springer –Botany & Plant Sciences
Asst. Director: Thomas Eulgem –Botany & Plant Sciences

NSF ChemGen IGERT Program:

Director: Julia Bailey-Serres–Botany & Plant Sciences
Assoc. Director: Sean Cutler–Botany & Plant Sciences

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B.1: PARTICIPATING PERSONNEL UCR FACULTY (Senate Members)		Type of Participation (check all that apply)							(Description of Other)
Name	Payroll Title	Affiliation	PI/Co-PI on Center Sponsored Award	Center Advisory Committee Member	Speaker at Center Event	Author on Center Publication	Other		
Bailey-Serres, Julia	Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ChemGen IGERT Dir; PI Luncheons; REU Mentor	
Borkovich, Katherine	Professor	Plant Pathology & Microbiology	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Speaker/Mentor; PI Luncheons; ChemGen IGERT Mentor	
Chen, Xuemei	Assoc. Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminar Cmte Chair; PI Luncheons; REU Mentor	
Cheng, Quan	Asst. Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PI Luncheons; CEPCEB Seminars	
Cui, Xinping	Asst. Professor	Statistics	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Member, Oral Cmte	
Cutler, Sean	Asst. Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ChemGen ChemGen IGERT Assoc Dir/Mentor/Speaker; REU Mentor	
Ding, Shouwei	Professor	Plant Pathology & Microbiology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REU Mentor; ChemGen IGERT Mentor	
Eulgem, Thomas	Asst. Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Asst. Dir; ChemGen IGERT Mentor/Speaker	
Girke, Thomas	Asst. Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PI Luncheons; REU Mentor; ChemGen IGERT Mentor/Retreat Speaker	
Jiang, Tao	Professor	Computer Science & Eng	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Jin, Hailing	Asst. Professor	Plant Pathology & Microbiology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CEPCEB Speaker; REU Speaker/Mentor	
Judelson, Howard S.	Professor	Plant Pathology and Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REU Speaker	
Larive, Cynthia	Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ChemGen IGERT Retreat Speaker; ChemGen IGERT Mentor	
Le Roch, Karine	Asst. Professor	Cell Biology & Neuroscience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Li, Bai-lian (Larry)	Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Search Cmte Chair, Bioinformatics	
Liao, Jiayu	Asst. Professor	Bioengineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Lonardi, Stefano	Asst. Professor	Computer Science & Eng	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Lord, Elizabeth	Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Lyubovitsky, Julia	Asst. Professor	Bioengineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Ma, Wenbo	Asst. Professor	Plant Pathology & Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB REU Mentor; IGERT Retreat Speaker	
Maduro, Morris	Asst. Professor	Biology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Morikis, Dimitrios	Assoc. Professor	Bioengineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Morton, Thomas	Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	

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UCR FACULTY (Senate Members)			Type of Participation (check all that apply)					Other	(Description of Other)
Name	Payroll Title	Affiliation	PI/Co-PI on Center Sponsored Award	IIGB Grant Reviewer	Speaker at Center Event	Author on Center Publication			
Nothnagel, Eugene	Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Ozkan, Mihri	Assoc. Professor	Electrical Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Pirrung, Michael	Professor, UC Presidential Chair	Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ChemGen IGERT Retreat Speaker	
Raikhel, Natasha	Distinguished Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Dir; IGERT ChemGen Mentor; REU Mentor	
Rao, A.L.N.	Assoc. Professor	Plant Pathology & Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Mentor	
Reddy, Venugopala G.	Asst. Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Mentor	
Rodgers, Victor	Victor	Bioengineering	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Schultz, Jerome	Distinguished Professor	Bioengineering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Smith, Harley	Asst. Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CEPCEB Awards Cmte Chair; REU Mentor	
Springer, Patricia S.	Assoc. Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Program Dir; ChemGen IGERT Retreat Speaker	
Walker, Sharon	Asst. Professor	Chemical & Env Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Walling, Linda	Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REU Mentor; ChemGen IGERT Mentor/Prof	
Wang, Yinsheng	Assoc. Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ChemGen IGERT Mentor; CEPCEB Seminars; PI Luncheons;	
Xu, Guanshui	Assoc. Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Xu, Shizhong	Professor	Botany & Plant Sciences	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Yang, Zhenbiao	Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CEPCEB PI Luncheons Coordinator; REU Mentor; ChemGen IGERT Mentor	
Zhong, Wenwan	Asst. Professor	Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CEPCEB Seminars; PI Luncheons	
Zhu, Jian-Kang	Professor	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Speaker Host	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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For Other Academics: Please list professional researchers, post-docs, visiting scholars, adjunct professors, academic specialists, research associates, academic coordinators, and academic CE appointees who actively participated in Center activities, e.g., PI on a sponsored project administered by the Center, member of a Research Team, speaker at a Center Conference/Event, author on a Center publication, etc.

[Many of these are included in following list]

OTHER ACADEMICS			Type of Participation (check all that apply)					(Description of Other)
Name	Payroll Title	Affiliation	PI/Co PI on Center Sponsored Award	Center Advisory Committee Member	Speaker at Center Event	Author on Center Publication		
Branco-Price, Christina	Postdoc/Bailey-Serres Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Carter, David	Academic Coordinator	Center for Plant Cell Biology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Science Fair Award Committee Judge	
Chae, Keun	Postdoc/Lord Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chang, Ruth	Postdoc/Bailey-Serres Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chary, Samboju N.	Postdoc/Raikhel Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chellappan, Padmanabhan	Asst. Specialist/Jin Lab	Plant Pathology & Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> REU Student Mentor	
Ding, Zhenhua	Postdoc/Reddy lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> REU Student Mentor	
Drakakaki, Georgia	Visiting Asst. Researcher/Raikhel Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fu, Ying	Asst. Project Spec/Yang Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hicks, Glenn	Academic Administrator	Inst. For Integrative Genome Biol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> ChemGen IGERT Retreat Speaker	
Katiyar-Agarwal, Surekha	Postdoc/Jin Lab	Plant Pathology & Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Li, Wenxue	Visiting Professor/Zhu Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mustroph, Angelika	Postdoc/Bailey-Serres Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pan, Songqin	Academic Coordinator	Center for Plant Cell Biology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pierce, Marcela	Postdoc/Raikhel Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Robert, Stephanie	Postdoc/Raikhel	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rosado-Rey, Abel	Postdoc/Raikhel Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> REU Student Mentor	
Sohn, Eun-Ju	Postdoc/Raikhel Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surpin, Marci	Professional Researcher	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Verslues, Paul	Postdoc/Zhu Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Xiang, Quan	Postdoc/Judelson Lab	Plant Pathology & Microbiology	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Yang, Fan	Postdoc/Yang Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Zhu, Jianhua	Postdoc/Zhu Lab	Botany & Plant Sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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PROFESSIONAL/TECHNICAL/RESEARCH STAFF [Note: this is not a complete list; dependent upon PI response]

For Professional/Technical/Research Staff: Please list Staff Research Associates and other professional staff titles. Under Source of Funding, include all sources that apply to each individual, e.g., Campus Allocation, Sponsored Awards, Income/Revenue, Gifts/Endowments, etc.

Name	Payroll Title	CEPCEB Lab	Dept	Source of Funding
Hicks, Glenn	Professional Researcher	Raikhel, N	Botany & Plant Sciences	SP
Surpin, Marci	Professional Researcher	Raikhel, N	Botany & Plant Sciences	SP
Wang, Lei	Programmer	Girke, T	Engineering	Campus Allocation
Levchuk, Aleksandr	Programmer/Anlst	Girke, T	CEPCEP	Campus Allocation
Park, Sang	Specialist	Cutler, S	Botany & Plant Sciences	SP/Campus Allocation
Ah Fong, Audrey	Specialist	Judelson, H	Plant Path & Micro	SP
Park, Gyungsoon	Specialist	Borkovich, K	Plant Path & Micro	SP
Chellappan, Padmanabhan	Asst. Specialist	Jin, H	Plant Path & Micro	SP
Kanrar, Siddhartha	Asst. Specialist	Smith, H	Botany & Plant Sciences	SP
Oosumi, Teruko	Asst. Specialist	Bailey-Serres	Botany & Plant Sciences	SP
Ramachandram, Vanitharani	Asst. Specialist	Chen, X.	Botany & Plant Sciences	SP
Fan, Zhaocheng	Jr Specialist	Jiang, T	Computer Sci & Eng	Campus Allocation/Gift
Song, Dandan	Jr Specialist	Jiang, T	Computer Sci & Eng	Campus Allocation/Gift
Yang, Yang	Jr Specialist	Jiang, T	Computer Sci & Eng	Campus Allocation/Gift
Zhao, Jiayuan	Jr Specialist	Jiang, T	Computer Sci & Eng	Campus Allocation/Gift
Alfred, Simon	Jr. Specialist	Cutler, S	Botany & Plant Sciences	Campus Allocation
Mandal, Jayati	Jr. Specialist	Cutler, S	Botany & Plant Sciences	SP/Campus Allocation
Lu, Rui	Jr. Specialist	Ding, SW	Plant Path & Micro	SP
Wang, Xiangbing	Jr. Specialist	Ding, SW	Plant Path & Micro	SP
Wu, Qingfa	Jr. Specialist	Ding, SW	Plant Path & Micro	SP
Holzer, Frances	SRA	Walling, L	Botany & Plant Sciences	Campus Allocation
Li, Wan-Xiang	SRA	Ding, SW	Plant Path & Micro	SP
Stevenson, Rebecca	SRA	Zhu, JK	Botany & Plant Sciences	Campus Allocation
Van de Ven, Wilhemina	SRA	Raikhel, N	Botany & Plant Sciences	Campus Allocation
Drakakaki, Georgia	Visiting Asst. Researcher	Raikhel, N	Botany & Plant Sciences	SP
Sohn, Eun-Ju	Visiting Asst. Researcher	Raikhel, N	Botany & Plant Sciences	SP
Zabotina, Olga	Visiting Asst. Researcher	Raikhel, N	Botany & Plant Sciences	SP
Iqbal, Muhammed	Visiting Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Kumar, Sudesh	Visiting Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Lu, Xiaoyan	Visiting Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Mondal, Tapan	Visiting Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Ito, Takao	Visiting Professor	Ding, SW	Plant Path & Micro	SP
Liu, Hongmei	Visiting Professor	Ding, SW	Plant Path & Micro	SP
Kang, Hoduck	Visiting Professor	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Kim, Minkyun	Visiting Professor	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Li, Wenxue	Visiting Professor	Zhu, JK	Botany & Plant Sciences	SP
Alliyari, Roghiyh	Postdoc	Ding, SW	Plant Path & Micro	SP
Barrera, Blanca	Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Biswajit, Roy	Postdoc	Pirrung, M	Chemistry	SP
Castro, Julian Pena	Postdoc	Bailey-Serres	Botany & Plant Sciences	SP
Chen, Angel	Postdoc	Walling, L	Botany & Plant Sciences	Campus Allocation/SP
Curaba, Julien	Postdoc	Chen, X.	Botany & Plant Sciences	Campus Allocation
Ding, Zhenhua	Postdoc	Reddy, Gonehal	Botany & Plant Sciences	SP
Fujii, Hiroaki	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
He, Xinjian	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Kocheharov, Andrei	Postdoc	Pirrung, M	Chemistry	SP
Li, Liande	Postdoc	Borkovich, K	Plant Path & Micro	SP
Li, Shengben	Postdoc	Chen, X.	Botany & Plant Sciences	SP

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PROFESSIONAL/TECHNICAL/RESEARCH STAFF (Cont.)

Name	Payroll Title	CEPCEB Lab	Dept	Source of Funding
Lida, Kei	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Lida, Kei	Postdoc	Girke, T	Botany & Plant Sciences	SP
Liu, Xigang	Postdoc	Chen, X.	Botany & Plant Sciences	Campus Allocation
Miki, Daisuke	Postdoc	Zhu, JK	Botany & Plant Sciences	Gift/Endowment
Madishetty, Kavitha	Postdoc	Judelson, H	Plant Path & Micro	SP
Mustroph, Angelika	Postdoc	Bailey-Serres	Botany & Plant Sciences	SP
Nath, Suvadeep	Postdoc	Pirrung, M	Chemistry	SP
Nath, Suvadeep	Postdoc	Cutler, S	Botany & Plant Sciences	IIGB
Norambuena, Lorena	Postdoc	Raikhel, N	Botany & Plant Sciences	SP
Ono, Yoko	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Pickles, Neal	Postdoc	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Pierce, Marcela	Postdoc	Raikhel, N	Botany & Plant Sciences	SP
Ren, Zhonghai	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Robert, Stephanie	Postdoc	Raikhel, N	Botany & Plant Sciences	SP
Rosado-Rey, Abel	Postdoc	Raikhel, N	Botany & Plant Sciences	Gift
Samboju, Narasimha	Postdoc	Raikhel, N	Botany & Plant Sciences	SP
Sridhar, Vaniyambadi	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Surendra, Gadamsetty	Postdoc	Pirrung, M	Chemistry	SP
Sutoh, Keita	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Verslues, Paul	Postdoc	Zhu, JK	Botany & Plant Sciences	SP
Xiang, Qijun	Postdoc	Judelson, H	Plant Path & Micro	SP
You, Na	Postdoc	Cui, X	Statistics	SP
Yu, Bin	Postdoc	Chen, X.	Botany & Plant Sciences	SP
Zarate, Sonia	Postdoc	Walling, L	Botany & Plant Sciences	Campus Allocation/SP
Zhang, Huijuan	Postdoc	Nothnagel, E	Botany & Plant Sciences	SP/Campus Allocation
Zhang, Na	Postdoc	Pan, S	Botany & Plant Sciences	Gift
Zhang, Xiaoming	Postdoc	Jin, H	Plant Path & Micro	SP
Zhao, Haibing	Postdoc	Cui, X	Statistics	SP
Zhao, Hongwei	Postdoc	Jin, H	Plant Path & Micro	SP
Zheng, Binglian	Postdoc	Chen, X.	Botany & Plant Sciences	SP
Altamirano	Lab Asst	Borkovich, K	Plant Path & Micro	SP
Chuenklung, Dean	Lab Asst	Pan, S	Botany & Plant Sciences	Campus Allocation
Tea, Queena	Lab Asst	Judelson, H	Plant Path & Micro	SP
Wang, Debbie	Lab Asst	Jin, H	Plant Path & Micro	SP

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GRADUATE STUDENTS [Note: this is not a complete list; dependent upon PI response]

For Graduate Students, please indicate degree being pursued, program/department/institutional affiliation, and faculty mentor.

Name	Payroll Title	CEPCEB Lab	Dept/Program	Source of Funding
Agee, April	Grad Student	Raikhel, N	Botany & Plant Sciences	SP
Alonzo, Virginia	Grad Student	Walling, L	Botany & Plant Sciences	Campus Allocation
Barding, Greg	Grad Student	Bailey-Serres	Chemistry	SP-IGERT
Barding, Greg	Grad Student	Larive, C	Chemistry	SP-IGERT
Bolden, Jenifer	Grad Student	Pirrung, M	Chemistry	Campus Allocation
Boucher, Craig	Grad Student	Jiang, T	Computer Sci & Eng	Gift
Boyle, Sean	Grad Student	Lonardi, S	GGB	SP-IGERT
Bozdog, Serdar	Grad Student	Lonardi, S	Computer Sci & Eng	SP
Brown, Michelle	Grad Student	Raikhel, N	GGB	SP
Cao, Yiqun	Grad Student	Girke, T	Computer Sci & Eng	SP-IGERT
Charisi, Anna	Grad Student	Girke, T	GGB	SP
Charisi, Anna	Grad Student	Girke, T	Botany & Plant Sciences	SP-IGERT
Chen, Xin	Grad Student	Cui, X	Statistics	SP/Campus Allocation
Defries, Andrew	Grad Student	Cutler, S	Botany & Plant Sciences	SP-IGERT/Campus Allocation
Diedrich, Jolene	Grad Student	Wang, Y	Analytical Chem	SP-IGERT
Dinh, Theresa	Grad Student	Chen, X.	Botany & Plant Sciences	SP-IGERT
Elkashef, Samer	Grad Student	Ding, SW	GGB	SP-IGERT
Elkashef, Samer	Grad Student	Wang, Y	GGB	SP-IGERT
Gao, Shang	Grad Student	Jin, H	Plant Path & Micro	SP
Harris, Elena	Grad Student	Lonardi, S	Computer Sci & Eng	SP
Horan, Kevin	Grad Student	Girke, T	Computer Sci & Eng	SP
Jamin, August	Grad Student	Yang, Z	GGB	SP-IGERT
Jang, Charles	Grad Student	Bailey-Serres	GGB	SP-IGERT
Ji, Lijuan	Grad Student	Chen, X.	Botany & Plant Sciences	SP
Jones, Carol	Grad Student	Borkovich, K	Plant Path & Micro	Campus Allocation
Junqueira, Ricardo	Grad Student	Smith, H	Plant Biology	SP
Juntawong, Piyada	Grad Student	Bailey-Serres	GGB	Gift/Endowment
Kaiser, Kayla	Grad Student	Bailey-Serres	Chemistry	SP-IGERT
Kaiser, Kayla	Grad Student	Larive, C	Chemistry	SP-IGERT
Kim, James	Grad Student	Larive, C	CMDB	SP-IGERT
Kim, James	Grad Student	Borkovich, K	CMDB	SP-IGERT
Kim, YunJu	Grad Student	Chen, X.	Botany & Plant Sciences	SP
Knoth, Colleen	Grad Student	Eulgem, T	Botany & Plant Sciences	SP-IGERT
Lal, Shruti	Grad Student	Smith, H	GGB	SP
Lee, Seung Cho	Grad Student	Bailey-Serres	Botany & Plant Sciences	Campus Allocation
Luo, Yingjun	Grad Student	Ding, SW	Plant Path & Micro	SP
Martinez, Sara	Grad Student	Borkovich, K	Plant Path & Micro	Campus Allocation
Massoud, Theresa	Grad Student	Pirrung, M	Chemistry	SP
Merrywell, Christiana	Grad Student	Larive, C	Chemistry	SP-IGERT
Niu, Xiaofan	Grad Student	Judelson, H	Plant Path & Micro	SP
Peng, Meng-Chih	Grad Student	Jiang, T	Computer Sci & Eng	Campus Allocation/SP
Roy, Sourav	Grad Student	Judelson, H	Plant Path & Micro	SP
Salus, Melinda	Grad Student	Eulgem, T	Botany & Plant Sciences	SP-IGERT
Schacht, Patrick	Grad Student	Borkovich, K	Plant Path & Micro	SP-IGERT
Sekmen, Hediye	Grad Student	Zhu, JK	Botany & Plant Sciences	Campus Allocation
Shi, Guanqun	Grad Student	Jiang, T	Computer Sci & Eng	Campus Allocation/SP
Shi, Nigie	Grad Student	Cui, X	Statistics	Campus Allocation
Smith, Melissa	Grad Student	Walling, L	Botany & Plant Sciences	SP-IGERT

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UNDERGRADUATE STUDENTS

For Undergraduate Students, please indicate class level, major/department/institutional affiliation, and faculty mentor.

Name	Payroll Title	CEPCEB Lab	Dept/Program	Source of Funding
Bell-Deane, Marissa	Undergrad	Raikhel, N	Botany & Plant Sciences	SP-REU
Carmona, Tiffany	Undergrad	Smith, H	Botany & Plant Sciences	SP-REU
Courtier, Jennifer	Undergrad	Smith, H	Botany & Plant Sciences	Campus Allocation/SP
Coutino, Gabriela	Undergrad	Jin, H	Plant Path & Micro	SP
Do, Lara	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Egidy, Rhonda	Undergrad	Chen, X.	Botany & Plant Sciences	SP-REU
Fromuth, Nyssa	Undergrad	Jin, H	Plant Path & Micro	SP
Garcia, Arianna	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Grant, Shonnette	Undergrad	Jin, H	Plant Path & Micro	SP-REU
Harris, Tristan	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP
Herrera, Francisco	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Hirschauer, Tom	Undergrad	Judelson, H	Plant Path & Micro	SP-REU
Huerta, Apolonio	Undergrad	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Hwang, Jae-ung	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Inchausti, Regina	Undergrad	Borkovich, K	Plant Path & Micro	SP
Johnson, Latasha	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Kim, Kristina	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Kong, Min	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Le, Nguyen	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Lee, Herman	Undergrad	Walling, L	Botany & Plant Sciences	SP
Lee, Tao Woong	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Leghari, Sana	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Leung, Christy	Undergrad	Jin, H	Plant Path & Micro	SP
Lin, Daniel	Undergrad	Reddy, Gonehal	Botany & Plant Sciences	SP-REU
Liu, Charles	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP
Liu, Tammy	Undergrad	Chen, X.	Botany & Plant Sciences	Fellowship (CNAS) + SP
Lungay, Melanie	Undergrad	Walling, L	Botany & Plant Sciences	Volunteer
Ma, Kelvin	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP
Mariscal, Cynthia	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Mashi, Arbi	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP
Milbes, Danya Akram	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Mitchell, Heather	Undergrad	Roose, M	Botany & Plant Sciences	Volunteer
Mojica, Janet	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Nguyen, Jacqueline	Undergrad	Raikhel, N	Botany & Plant Sciences	SP
Nguyen, Kelsey	Undergrad	Chen, X.	Botany & Plant Sciences	Gift/Endowment, SP
Nguyen, Viet	Undergrad	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Nowokedi, Ugoeze	Undergrad	Girke, T	Botany & Plant Sciences	SP-REU
O'Leary, Michael	Undergrad	Chen, X.	Botany & Plant Sciences	SP-REU
Patel, Monhi	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP
Paya, Alex	Undergrad	Yang, Z	Botany & Plant Sciences	SP-REU
Qin, Zhen	Undergrad	Borkovich, K	Plant Path & Micro	SP-REU
Quezada, Lauren	Undergrad	Ding, SW	Plant Path & Micro	SP-REU
Sipin, Heather	Undergrad	Ding, SW	Plant Path & Micro	SP
So, Sonia	Undergrad	Cutler, S	Botany & Plant Sciences	SP-REU
Song, Min	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Stempke, Jenessa	Undergrad	Walling, L	Botany & Plant Sciences	Gift
Steward, Kelley	Undergrad	Chen, X.	Botany & Plant Sciences	SP
Swank, Daniel	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP-REU
Torres, Sandra	Undergrad	Borkovich, K	Plant Path & Micro	SP
Trinh, Tung	Undergrad	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Ung, Nolan	Undergrad	Smith, H	Botany & Plant Sciences	SP-NIH-MARC-U
Vuong, Tyuen	Undergrad	Walling, L	Botany & Plant Sciences	Volunteer
Wilson, Lau	Undergrad	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Yongpradit, Daranee	Undergrad	Nothnagel, E	Botany & Plant Sciences	Campus Allocation
Zaniel, Ali	Undergrad	Bailey-Serres	Botany & Plant Sciences	SP

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ADVISORY COMMITTEE MEMBERS

For Advisory Committee members, please indicate name, title, and affiliation. Below the table, list dates of meetings held for the period under review and attach a copy of the agenda for each meeting listed.

<i>Name</i>	<i>Title</i>	<i>Affiliation</i>	<i>Period of Service on Advisory Committee</i>

Advisory Committee Meetings

- Date of Meeting 1: _____ (agenda attached)
- Date of Meeting 2: _____ (agenda attached)
- Date of Meeting 3: _____ (agenda attached)

Center for Plant Cell Biology

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B.2: CENTER PUBLICATIONS

ABIOTIC STRESS/GENE REGULATION/METABOLOMICS:

C. Branco-Price, K. A. Hamersky, C. J. H. Jang, C. K. Larive, J. Bailey-Serres "Selective mRNA Translation Coordinates Energetic and Metabolic Adjustments to Hypoxia and Reoxygenation in *Arabidopsis thaliana*" *Plant J.* (2008) in press, DOI:10.1111/j.1365-313X.2008.03642.x

Horan, K., Jang C., Bailey-Serres, J., Mittler, R., Shelton, C., Harper, J.F., Zhu, J.-K., Cushman, J.C., Gollery, M. and Girke, T. (2008) Annotating genes of known and unknown function by large-scale co-expression analysis. *Plant Physiology*. 147:41-57.

Li, WX., Oono, Y., Zhu, J., He, X.J., Wu, JM., Iida, K., Lu, XY., Cui, X., Jin, H., Zhu, JK. The *Arabidopsis* NFYA5 transcription factor is regulated transcriptionally and posttranscriptionally to promote drought resistance. Accepted on July 22, 2008 by *Plant Cell*. 14 msp.

G. Batelli, P. E. Verslues, F. Agius, Q. Qiu, H. Fujii, S. Pan, K. Schumaker, S. Grillo and J. Zhu (2007). SOS2 promotes salt tolerance in part by interacting with the vacuolar H⁺-ATPase and upregulating its transport activity. *MCB*, 27(22):7781-7790.

Hailing Jin* (co-corresponding author), Vladimir Vacic, Thomas Girke, Stefano Lonardi and Jian-Kang Zhu (2008) Small RNAs and the regulation of cis-natural antisense transcripts in *Arabidopsis*. *BMC Molecular Biology* doi:10.1186/1471-2199-9-6.

Surekha Katiyar-Agarwal, Shang Gao, Adam Vivian-Smith and Hailing Jin* (2007) A novel class of bacteria-induced small RNAs in *Arabidopsis*. *Genes & Dev.* 21, 3123-3134.

C. Yang, E. Bolotin, T. Jiang, F.M. Sladek, and E. Martinez (2007) Prevalence of the initiator over the TATA box in human and yeast genes and identification of DNA motifs enriched in human TATA-less core promoters. *Gene* 389, pp. 52-65.

BIO/CHEM INFORMATICS/ COMPUTATIONAL BIOLOGY

N.G.Portney, Y.Wu, L.K.Quezada, S.Lonardi, M.Ozkan, "Length-based Encoding of Binary Data in DNA", *Langmuir*, vol.24, no.5, pp.1631-1616, 2008.

H. Jin, V. Vacic, T. Girke, S. Lonardi, J.-K. Zhu, "Small RNAs and the regulation of cis-natural antisense transcripts in *Arabidopsis*.", *BMC Molecular Biology*, 9:6, 2007.

Cao Y, Charisi A, Cheng LC, Jiang T, Girke T (2008) ChemmineR: A Compound Mining Framework for R. *Bioinformatics*: 24, 1733-1734. *PubMed*

Cao Y, Jiang T, Girke T (2008) A maximum common substructure-based algorithm for searching and predicting drug-like compounds. *Bioinformatics*: 24, i366-374. *PubMed*

Cao Y, Jiang T, Girke T (2008) A maximum common substructure-based algorithm for searching and predicting drug-like compounds. Presented at the 16th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB), July 19-23, Toronto, Canada. ISMB

CHEMICAL GENOMICS:

Zhao, Y., T.F. Chow, R.S. Puckrin, S.E. Alfred, A.K. Korir, C.K. Larive, and S.R. Cutler, (2007) Chemical genetic interrogation of natural variation uncovers a molecule that is glycoactivated. *Nat Chem Biol.* doi:10.1038/nchembio.2007.32.

Robert S, Chary SN, Drakakaki G, Yang Z, Raikhel NV & Hicks GR (2008) The Brassinosteroid Receptor BRI1 and the Auxin Transporters PIN2 and AUX1 are Sorted Via Specific Endosomes Essential for BRI1 Signaling. *Proc Natl Acad Sci USA* 105:8464-8469.

Rojas-Pierce M, Titapiwatanakun B, Sohn EJ, Fang F, Larive CK, Blakeslee J, Cheng Y, Cutler S, Peer WA, Murphy AS and Raikhel NV (2007) *Arabidopsis* P-Glycoprotein19 Participates in the Inhibition of Gravitropism by Gravacin. *Chem & Biol* 14: 1366-1376.

Y. Cao, A. Charasi, L.C. Cheng, T. Jiang, and T. Girke (2008) ChemmineR: A compound mining framework for R. *Bioinformatics* 24(15): 1733-1734.

Y. Cao, T. Jiang and T. Girke (2008) A maximum common substructure-based algorithm for searching and predicting drug-like compounds. Presented at the 16th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB), July 19-23, 2008, Toronto, Canada; also in *Bioinformatics* 28(13), i366-i374, 2008.

PARASITE VIRULENCE

Ponts N, Yang J, Chung DWD, Prudhomme J, Girke T, Horrocks P, Le Roch K (2008) Deciphering the Ubiquitin-Mediated Pathway in Apicomplexan Parasites: A Potential Strategy to Interfere with Parasite Virulence. *PLoS ONE*: 3, e2386..

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PLANT METABOLISM/GROWTH/DEVELOPMENT:

M. Rojas-Pierce, B. Titapiwatanakun, E. J. Sohn, F. Fang, **C. K. Larive**, J. Blakeslee, Y. Cheng, S. Cutler, W. A. Peer, A. S. Murphy, **N. V. Raikhel** "Arabidopsis P-Glycoprotein19 Participates in the Inhibition of Gravitropism by Gravitropin" *Chem. Biol.* 14:1366-1376 (2007).

Y. Zhao, T. F. Chow, R. S. Puckrin, S. E. Alfred, A. K. Korir, **C. K. Larive**, **S. R. Cutler** "Chemical Genetic Interrogation of Natural Variation Uncovers a Molecule that is Glyco-activated" *Nature Chem. Biol.* 3:716-721 (2007)

E. Sohn, **M. Rojas-Pierce**, **S. Pan**, **C. Carter**, **A. Serrano**, **F. Madueño**, **E. Rojo**, **M. Surpin**, **N.V. Raikhel** (2007). The shoot meristem identity gene TFL1 demonstrates a role for the protein storage vacuole in plant development. *PNAS*, 104(47):18801-18806.

PLANT SIGNAL TRANSDUCTION:

E. L. Avila, **M. Brown**, **S. Pan**, **R. Desikan**, **S. J. Neill**, **T. Girke**, **M. Surpin**, and **N. V. Raikhel** (2008). Expression analysis of Arabidopsis vacuolar sorting receptor 3 reveals a putative function in guard cells. *JEB* 59(6):1149-1161.

SYSTEMS BIOLOGY

Horan K, Jang C, **Bailey-Serres J**, Mittler R, Shelton C, Harper JF, **Zhu JK**, Cushman JJ, Gollery M, **Girke T** (2008) Annotating Genes of Known and Unknown Function by Large-Scale Co-Expression Analysis. *Plant Physiol*: 147, 41-57.

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B.3: DISTINGUISHED AWARDS RECEIVED OR HELD BY CENTER PARTICIPANTS

Fiscal Year Period: 2007-08

Center Name: Center for Plant Cell Biology

Please list prestigious awards received or held by Center participants from professional organizations, industry, etc.

Recipient Name	Name of Award	Year Award Received
BAILEY-SERRES, JULIA Botany & Plant Sciences	F.C. Donders Chair, Utrecht University, The Netherlands	2008
CHEN, XUEMEI Botany & Plant Sciences	Recipient, 2008-09 COR Fellowship (Committee on Research)	2008
CHENG, QUAN Chemistry	Recipient, 2008-09 COR Fellowship (Committee on Research)	2008
DING, SHOU-WEI Plant Pathology & Microbiology	Recipient, 2008-09 COR Fellowship (Committee on Research)	2008
JIANG, TAO Computer Science & Engineering	Fellow, Association for Computing Machinery (ACM)	2007
JIN, HAILING Plant Pathology & Microbiology	Recipient, UCR-LANL 2008-09 Collaborative Award	2008
NOTHNAGEL, EUGENE, Botany & Plant Sciences	UCR Academy of Distinguished Teachers	2005-10
MIHRI OZKAN, Electrical Engineering	One of 15 invited speakers and 82 engineers selected to participate in the National Academy of Engineering's (NAE) 14th annual U.S. Frontiers of Engineering Symposium	2008
NATASHA RAIKHEL, Botany & Plant Sciences	2007-08 Faculty Research Lecturer	2008
JEROME SCHULTZ Bioengineering	"One Hundred Engineers of the Modern Era" Award by the American Institute of Chemical Engineers (AIChE)	2008
SHARON WALKER Chemical & Environmental Engineering	2008 Women of Distinction Award (Inland Empire's Top 10 Female Leaders) by the Girl Scouts of San Geronimo Council	2008
JIAN-KANG ZHU Botany & Plant Sciences	Most Cited Plant Scientist in US and 4 th Internationally over Period 1997-2007 acc. to survey by ScienceWatch.com	2008

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B.4: EVENTS SPONSORED BY CENTER

Fiscal Year Period: 2007-08

Center Name: Center for Plant Cell Biology

Please list events sponsored by Center during the period under review.

EVENTS SPONSORED BY CENTER					
Title of Event	Type of Event	Date of Event	Number of Attendees	Names of Featured Speakers	Title and Affiliation of Featured Speakers
NSF CEPCEB ChemGen IGERT Third Annual Retreat	Faculty and Student Retreat	November 2-4, 2007	43	SEAN CUTLER	Professor of Internal Medicine and Molecular Biology at the University of Texas Southwestern Medical Center
NSF REU Summer Symposium	Student Symposium	August 17, 2007	~50	2007 REU Students (12)	Listed on p. 5
CEPCEB Noel T. Keen Annual Lecture and Award Ceremony	Award Ceremony	January 25, 2008	~70	GLORIA CORUZZI	Carroll and Milton Petrie Professor Chair, Department of Biology New York University
CEPCEB Quarterly PI Luncheons	Seminar Luncheons	October 25, 2007 November 15, 2007	~15	KARINE LE ROCH GUANSHUI XU, ZHENBIAO YANG, AN YAN	Asst. Professor, UCR Cell Biology & Neuroscience Professor, Mechanical Engineering Professor, Botany & Plant Sciences Student, Botany & Plant Sciences
CEPCEB Seminar Series	Seminars	Weekly	~25	See Attachment	
IGERT Seminar Series	Seminars	8/yr	~25	See Attachment	

Center for Plant Cell Biology

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B.5: SPACE UTILIZED BY CENTER

Fiscal Year Period:

Center Name:

Please provide explanations or descriptions as required. Changes to number of square feet, space configuration, or space use should be described.

Space Description	Square Feet
Meeting Space	285 (2018 Keen Hall)
Office Support	451*
Research	2094**
Special Use	
Miscellaneous	
Total Assigned Space	2830

* Offices assigned to IIGB/CEPCEB

** Core Instrumentation Facilities: Lab/Offices belonging to Microscopy, Bioinformatics, Proteomics

Center for Plant Cell Biology

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B.6: SPONSORED FUNDING PROPOSALS AND AWARDS

Fiscal Year Period:

Center Name:

On the first table below, please list all current (new and continuing) awards for the fiscal year under review. This list should include only those projects where the intellectual content was a result of Center collaborations, not awards that were made possible simply because of the availability of Center facilities and/or equipment.

Current Awards

Proposal Title	PI	Co-PIs	Funding Agency	Period of Funding	Total Award	1 st year Award
REU Site: Research Experiences for Undergraduate Students in Plant Cell Biology	Patricia Springer	Julia Bailey-Serres	NSF	3/1/2005-2/28/2010	\$432,901	\$80,100
IGERT in Chemical Genomics: Forging Complementation at the Interface	Julia Bailey-Serres	Michael Pirrung; Tao Jiang; Natasha Raikhel; Jerome Schultz	NSF	9/1/2005-8/31/2010	\$2,900,553	\$222,786
NSF 2010: Chemical Genomics of Vesicular Trafficking	Zhenbiao Yang	David Carter, Thomas Girke, Natasha Raikhel	NSF	9/1/2005-8/31/2008	\$999,999	\$999,999

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On the second table below, please list all pending and planned proposals in fiscal year under review and indicate the total amount of the request.

Proposals Pending

Proposal Title	PI	Co-PIs	Funding Agency	Period of Funding	Total Award Requested	Status
Dual Release of Vasopressin by the Magnocellular Neuroendocrine Cell System: Mechanisms, Functional Relationship and Physiological Significance	Margarita Curras-Collazo		NSF	4/1/2008-3/31/2011	\$396,726	Pending
Dissection of regulatory networks controlling plant defense gene expression by chemical genomics	Thomas Eulgem	Isgouhi Kaloshian	USDA	7/1/2008-6/30/2011	\$400,000	Pending

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B.7: NON-SPONSORED RESOURCES

Fiscal Year Period: 206-07

Center Name: Center for Plant Cell Biology

Sources of Funding		Amount
Funding Provided by UCR Institutional Sources	CNAS Staff funding	\$277,536
	CNAS Faculty Recruitment Support	\$18,198
Funding Provided by UC System Sources		
Funding from Endowments or Gifts	CEPCEB Award Fund	\$15,880
Funding from Other Sources (Please List)		
		\$311,614

CEPCEB/IGERT/IIGB/CDVR SEMINARS (FY 2007-08)

Location: Science Library, Room 240; *1104 Batchelor Hall

Time: 12:10 pm Every Friday

Location: Science Library, Room 240

Time: 12:10pm Every Tuesday

DATE		SPEAKER	TITLE	HOST
July '07				
(Friday) Internal	6	Ying Fu Botany & Plant Sciences	<i>"A ROP GTPase signaling network in the control of plant cell morphogenesis"</i>	Zhenbiao Yang
CEPCEB (Friday)	13	Cathie Martin John Innes Center, UK Cell and Development Biology	<i>"Designed for attraction: the specialization of petal cells for pollinator attraction"</i>	Hailing Jin
CEPCEB (Friday)	20	Mark Bachman The Henry Samueli School of Engineering UC, Irvine	"LifeChips: Convergence of Microelectronics and Life Science"	Julia Bailey Serres
CEPCEB (Friday)	27	John Fowler Department of Botany & Plant Pathology Oregon State University	"ROP GTPases and the Exocyst Complex: Developmental Roles in Two Model Plants"	Zhenbiao Yang
August '07				
CEPCEB* (Friday) (Internal)	3	Colleen Knoth Botany and Plant Sciences	"Function and regulation of genes showing late/sustained up-regulation in response to Peronospora"	Eulgem Lab
CEPCEB (Friday) (Internal)	10	Andrew Defries Botany and Plant Sciences	"LATCA, a Library of Biologically Active Small Molecules for Plant Chemical Genomics"	Sean Cutler
(Friday) Keen Hall Lobby	17	REU poster session- Per Dr. Springer	REU POSTER SYMPOSIUM	Patricia Springer
CEPCEB (Friday) Internal	24	Ruth Chang Botany and Plant Science	"MAPK activation in response to oxygen deprivation and re-oxygenation in Arabidopsis thaliana seedlings"	Julia Bailey Serres
CEPCEB (Friday) Internal	31	Keun Chae Botany and Plant Science	<i>"Role of Adhesion Molecules in Plant Reproduction"</i>	Elizabeth Lord
Sept '07				
CEPCEB (Friday) Internal	7	Fan Yang Botany and Plant Science	<i>"Investigation of ROP Function in Auxin and ABA Signaling"</i>	Zhenbiao Yang
IGERT (Friday)	14	Charlie Boone Terrence Donnelly Centre for Cellular and Biomolecular Research University of Toronto, Canada	<i>"Large-scale Mapping of Genetic and Chemical-genetic Interactions in yeast"</i>	Sean Cutler
CEPCEB (Friday)	21	Zheng-hua Ye University of Georgia	"Genomic Analysis of Secondary Wall Biosynthesis"	Zhenbiao Yang
CEPCEB (Friday) (Internal)	28	Jason Wilson Statistics Department	"An alternative framework for approaching high dimensional data problems in bioinformatics"	Cui Lab
Oct '07				
IIGB (Friday)	5	Joe Thornton Center for Ecology and Evolutionary Biology University of Oregon	<i>The Evolution of Molecular Complexity: Structure –Function Evolution of Steroid Hormone Receptors"</i>	Frances Sladek
IGERT (Friday)	12	No Seminar scheduled per Carolina 10/11/07	NO SEMINAR	
CEPCEB	19	Eliot Herman	"Altering soybean seed protein, its biology, its rules, and its opportunities"	Natasha Raikhel

DATE	SPEAKER	TITLE	HOST
(Friday)	Lead Scientist and Member Plant Genetics Research Unit USDA-ARS		
CEPCEB (Friday)	26 Qijun Xiang Plant Pathology & Microbiology Department	“The identification of cis- and trans-elements involved in spore-specific gene expression in Phytophthora infestans”	Howard Judelson
Nov '07			
IGERT (Friday-Sunday)	2-4 IGERT RETREAT	IGERT Retreat with UCSD IGERT Group: San Diego County	
CDVR (Tuesday)	6 Richard Carthew Department of Biochemistry & Molecular & Cell Biology Northwestern University, IL	“Mechanism and Biology of RNAi”	Peter Atkinson
CEPCEB (Friday)	9 Scott Peck Department of Biochemistry University of Missouri- Columbia	“Phosphoproteomics Reveals New Insights into Plant-Microbe Interactions”	Natasha Raikhel
CEPCEB (Monday)	12 Tsutomu Kawasaki Laboratory of Plant Molecular Genetics / Nara Institute of Science and Technology in Japan	“G protein-mediated immunity response in rice”	Thomas Eulgem
IIGB (Friday)	16 Hong Wu Dept. of Molecular and Medical Pharmacology University of California, Los Angeles- Speaker cancelled, Dr. Li, notified and trying to fill in with another speaker	CANCELLED	Larry Li
(Friday)	23 Holiday		
IIGB (Friday)	30 Raymond St Leger Entomology Department University of Maryland	“Using genomics, the insect immune system and a scorpion neurotoxin to make entomopathogenic fungi hypervirulent to insects”	Brian Federici
Dec '07			
CEPCEB (Friday)	7 David Ehrhardt Department of Plant Biology Carnegie Institution of Washington	"Molecular dynamics of plant cell morphogenesis".	Zhenbiao Yang
IGERT (Friday)	7 Paul Hergenrother [IGERT] Department of Chemistry University of Illinois	Using Small Molecules to Identify Novel Anti- Cancer Targets	Michael Pirrung
CEPCEB (Friday)	14 Michael Hasegawa Horticulture & Landscape Architecture Purdue University	TBA	Jian-Kang Zhu
CEPCEB (Friday)	17- Carolyn Schultz School of agriculture, Food and Wine The University of Adelaide Australia	FASCICLIN-LIKE-ARABINOGALACTAN- PROTEINS: Turgor sensing and regulation in the plant cell wall-plasma membrane-cytoskeleton continuum	Natasha Raikhel
(Friday)	28 Holiday		
January '08			
(Friday)	4 NO SEMINAR		
CEPCEB Location is Bourns Hall (Friday)	11 Mark Estelle Miller Chair in Plant Developmental Biology Indiana University, Bloomington	“Genetic and Biochemical Studies of the Auxin Receptor Reveal a Novel Mechanism of Hormone Perception”	Zhenbiao Yang
CEPCEB (Tuesday)	15 Yang Do Choi Crop Functional Genomics Center Seoul National University	“Crop Functional Genomics Program in Korea and Rice Genomics Data “	Jian-Kang Zhu

DATE	SPEAKER	TITLE	HOST
CDVR (Tuesday) 15	Jose Ribiero National Institutes of Health	TBA	Peter Atkinson
CEPCEB (Friday) 25	Gloria Coruzzi 2008 Noel Keen Lecturer CEPCEB CEREMONY AWARD Biology Department New York University	<i>"A systems approach to nitrogen regulatory networks and the Virtual Plant"</i> Science Library 240	Natasha Raikhel
February '08			
CEPCEB (Friday) 1	Elaine Tobin Department of Molecular, Cell and Developmental Biology UC, Los Angeles	<i>"The Central Oscillator of the Arabidopsis Circadian Clock"</i>	Natasha Raikhel
CEPCEB (Friday) 6	Jiri Friml Department of Plant Systems Biology VIB / Universiteit Gent Belgium	<i>"Auxin Transport – Connecting Polarity and Patterning"</i>	Natasha Raikhel
CEPCEB (Friday) 6	Eva Benkova Department of Plant Systems Biology VIB / Universiteit Gent Belgium	<i>"Interplay of Auxin – Cytokinin and Ethylene in root development"</i>	Natasha Raikhel
CEPCEB (Friday) 8	Keiko Sugimoto Group Leader, Cell & Developmental Biology Dept, John Innes Centre	<i>"Control of Plant Cell Size and Its Link to Ploidy"</i>	Natasha Raikhel
CEPCEB (Friday) 8	Eugenia Russinova Department of Plant Systems Biology VIB / Universiteit Gent Belgium	<i>"Chemical Approaches to Brassinosteroid Signaling"</i>	Natasha Raikhel
IGERT (Friday) 15	Sue Abrams NRS Plant Biotechnology Institute in Saskatoon	<i>"Chemical approaches to study ABA perception and metabolism in plants"</i>	Julia Bailey-Serres
(Friday) CANCELLED 22	UCR/ CHINA Agricultural Annual Mtg	TBA	Jian-Kang Zhu and Sho-Wei Ding
CDVR (Tuesday) 26	Bruce Hay Caltech	<i>"Medea Systems in Insects"</i>	Peter Atkinson
CEPCEB (Tuesday) 26	Sheila McCormick Plant Molecular Geneticist USDA Plant Gene Expression Ctr UC Berkeley	<i>"Signaling in Pollen"</i>	Zhenbiao Yang
IIGB (Friday) 29	Eddy Rubin Genomics Sciences Department Ernest Orlando Lawrence Berkeley National Laboratory	<i>"Genomes Decoded: Microbes to Hominids "</i>	Frances Sladek
March '08			
IIGB (Friday) 7	Bruce Lahn Department of Human Genetics University of Chicago Howard Hughes Medical Institute	<i>"Probing the Genetic Basis of Human Brain Evolution"</i>	Frances Sladek
IGERT (Friday) CANCELLED 7	Peter McCourt Department of Botany University of Toronto	CANCELLED	Julia Bailey-Serres
CDVR (Tuesday) 11	Michael Ferdig Notre Dame University	<i>"Applying whole genome information to connect genotype with phenotype"</i>	Peter Atkinson
IGERT 14	Joseph Noel	<i>"Quantitative exploration of the catalytic</i>	Julia Bailey-Serres

DATE	SPEAKER	TITLE	HOST
(Friday) CANCELLED	The Salk Institute for Biological Studies	<i>landscape separating divergent plant sesquiterpene syntheses"</i>	
CEPCEB (Friday) CANCELLED	21 Patricia Zambryski Plant & Microbial Biology UC, Berkeley May 13 or 20 th per Dr Raikhel-1/22	CANCELLED	Natasha Raikhel
CEPCEB (Friday)	28 HOLIDAY		
April '08			
CEPCEB (Friday)	4 NO SEMINAR		
IGERT (Friday)	11 Jon Thorson School of Pharmacy University of Wisconsin, Madison	<i>Natural Product Glycosylation: Challenges and Opportunities</i>	Sean Cutler
CEPCEB (Friday)	18 Renee Sung Department of Plant and Microbial Biology UC Berkeley	<i>Epigenetic mechanism mediating vegetative development in Arabidopsis</i>	Xuemei Chen
CDVR (Tuesday)	22 James McKerrow Sandler Center for Basic Research in Parasitic Diseases UCSF	<i>Proteases of plants, pests, and parasites: lessons in biochemistry and drug design</i>	Peter Atkinson
CEPCEB (Friday)	25 Wendy Boss Department of Plant Biology NC State University	<i>Regulation of PtdInsP₂ Biosynthesis: Altering Second Messengers and Plant Responses to Stress</i>	Zhenbiao Yang
May '08			
IGERT (Friday)	2 Brian Shoichet Department of Pharmaceutical Chemistry University of California, San Francisco	<i>Forward & Reverse Chemical Information in Biology</i>	Thomas Girke
	9		
CEPCEB (Friday)	16 Sue Wessler Regents Professor Dept. of Plant Biology University of Georgia	<i>"Understanding the Other Big Bang: How Transposable Elements Amplify Throughout Genomes"</i>	Jian-Kang Zhu
(Friday)	23		
CEPCEB/ (Friday)	30 Clinton Chapple Department of Biochemistry Purdue University	<i>"Developing a toolbox for the modification of plant cell biosynthesis"</i>	Sean Cutler
June '08			
(Friday)	6		
(Friday) **Internal Speaker	13 Angelika Mustroph Botany and Plant Sciences	<i>"Isolation of cell-type specific mRNA populations of Arabidopsis: Microgenomics of the hypoxia response"</i>	Julia Bailey-Serres
(Friday) ** Internal Speaker	20 Wenxue Li Botany and Plant Sciences	<i>"Transcriptional And Posttranscriptional Regulation of NFYA5, A CCAAT Binding Transcription Factor Important for Drought Resistance in Arabidopsis"</i>	Jian-Kang Zhu
(Friday) **Internal Speaker	27 Serdar Bozdag Computer Science & Engineering Department	<i>"Combinatorial Approaches to the Physical Mapping Problem"</i>	Stefano Lonardi

LEGEND:

CEPCEB (BPSC 252) Seminars: Special Topics on Botany

IGERT Seminars

CDVR Seminars

IIGB Seminars