

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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

Phone: (951) 827 - 6370

Department: Botany & Plant Sciences

Email: nraikhel@ucr.edu

College: College of Natural & Agricultural Sciences

Period of Review:

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

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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:

MAIN ACTIVITIES RELATED TO MISSION, GOALS, AND OBJECTIVES:

1. **Weekly CEPCEB Seminar Series:**

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

2. **Active CEPCEB ChemGen IGERT Seminar Series:**

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).

3. **CEPCEB Chem/Gen IGERT Annual Retreat:**

To prepare graduate students participating in the ChemGen IGERT (Integrative Graduate Education and Research Trainee) program for their interdisciplinary future, an intensive two-day retreat is held at the UCLA Lake Arrowhead Conference Center. 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. The second annual ChemGen IGERT Retreat was held October 22-23, 2006 with keynote speaker Thomas Kodadek, Professor of Internal Medicine and Molecular Biology at the University of Texas Southwestern Medical Center. The retreat was attended by 43 participants and was a tremendous success; it is clear that this program has created a new culture of exchange and cooperation, and plant biologists, chemists, engineers and computational scientists are demonstrating the benefits of interacting, learning and establishing collaborations with each other. For further information, please visit:

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

2006 CEPCEB ChemGen IGERT Retreat Speakers and Session Chairs:

RETREAT SPEAKER	TITLE	DEPT/GRAD PROGRAM	SESSION CHAIR?
FACULTY AND OTHER ACADEMICS			
David Carter	Academic Coordinator	Botany & Plant Sciences	
Sean Cutler	Assistant Professor	Botany & Plant Sciences	
Thomas Girke	Assistant Professor	Botany & Plant Sciences	
Glenn Hicks	Assistant Research Plant Cell Biologist	Botany & Plant Sciences	
Svetlana Krystofova	Specialist	Plant Pathology & Microbiology	
Bai-lian Li	Professor	Botany & Plant Sciences	
Jiayu Liao	Assistant Professor	Bioengineering	
Angelika Mustruph	Postgraduate Researcher	Botany & Plant Sciences	
Lorena Norambuena	Postgraduate Researcher	Botany & Plant Sciences	
G. Venugopala Reddy	Assistant Professor	Botany & Plant Sciences	
Jayalakshmi Sridhar	Visiting Assistant Researcher	Botany & Plant Sciences	
Veniyambadi Sridhar	Postgraduate Researcher	Botany & Plant Sciences	
Marci Surpin	Assistant Research Plant Cell Biologist	Botany & Plant Sciences	
Tokuji Tsuchiya	Postgraduate Researcher	Botany & Plant Sciences	
Vladimir Vacic	Graduate Student	Computer Science & Engineering	
Paul Verslues	Postgraduate Researcher	Botany & Plant Sciences	
Zhenbiao Yang	Professor	Botany & Plant Sciences	
Wenwan Zhong	Assistant Professor	Chemistry	
Yonghui Wu	Graduate Student	Computer Science & Engineering	

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

CEPCEB ChemGen IGERT Student Retreat Speakers/Session Chairs			
Jolene Diedrich	Graduate Student	Analytical Chemistry	
Samer Elkashef	Graduate Student	Genetics, Genomics & Bioinformatics	YES
Kayla Hamersky	Graduate Student	Chemistry	
Charles Jang	Graduate Student	Genetics, Genomics & Bioinformatics	YES
Augusta Jamin	Graduate Student	Cell, Molecular & Developmental Biology	
James Kim	Graduate Student	Cell, Molecular & Developmental Biology	
Colleen Knoth	Graduate Student	Plant Biology	YES
Christiana Merrywell	Graduate Student	Chemistry	YES

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

An NSF CEPCEB REU Symposium was held on Friday, August 18, 2006 at the Science Library where 10 students in the 2006 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.

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 2006—07:

Shou-wei Ding—Botany & Plant Sciences
 Xuemei Chen—Botany & Plant Sciences
 Bai-lian Li—Botany & Plant Sciences
 Venugopala G Reddy—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 Annual CEPCEB Award Ceremony and Noel Keen Lecture on February 9, 2007, 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. Each recipient awarded \$500 and publicized on the CEPCEB website

(<http://cepceb.ucr.edu/news/news.htm#Awards>).

- a. Dr. BERNARD O. PALSSON, Galetti Professor of Bioengineering and Adjunct Professor Medicine at the University of California, San Diego, was the 2007 Noel Keen Special Lecturer
- b. Outstanding Postdoctoral, Graduate Student and Undergraduate Student Researcher Award recipients, accordingly:
 TAKESHI FUKAO (Botany & Plant Sciences/Julia Bailey-Serres Lab)
 XIAO-HONG WANG (Plant Pathology/Shou-wei Ding Lab)
 MONA BHATTACHARYA (Botany & Plant Sciences/Harley Smith Lab).

7. **24th Symposium in Plant Biology**

The 24th Symposium in Plant Biology titled "Gene Silencing: The Biology of Small RNAs and the Epigenome" was held January 18-20, 2007 at the Riverside Convention Center. Organizers of the symposium were: Xuemei Chen, Associate Professor of Plant Cell and Molecular Biology; Shou-Wei Ding, Professor and Plant Pathologist; and Jian-Kang Zhu, Professor of Plant Cell Biology. All three are participants in the Center for Plant Cell Biology (CEPCEB) as well as pioneers in the investigation on small RNA biogenesis and the role of miRNAs in plant development. Total symposium attendance was 319, making it the best attended UCR Symposium in Plant Biology. Approximately 37% of the attendees were affiliated with the University of California and represented five different UC campuses (Berkeley, Davis, Los Angeles, Riverside and San Diego). Due to available funding, registration fees were waived for approximately 90% of UC attendees (waived UC fees totaled \$33,750).

CEPCEB FACULTY COORDINATORS/SPEAKERS	CEPCEB FACULTY SESSION CHAIRS
Jian-Kang Zhu—Botany & Plant Sciences Xuemei Chen—Botany & Plant Sciences Shou-wei Ding—Plant Pathology & Microbiology	Hailing, Jin—Plant Pathology & Microbiology Patricia Springer—Botany & Plant Sciences Harley Smith—Botany & Plant Sciences Julia Bailey-Serres—Botany & Plant Sciences Zhenbiao Yang—Botany & Plant Sciences Natasha Raikhel—Botany & Plant Sciences Frank Sauer—Biochemistry

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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 has agreed to provide 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. 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 Labs Mentoring ChemGen IGERT Students:

Year	IGERT Student	Graduate Program	CEPCEB Lab Rotations
2005-06	SAMER ELKASHEF	Genetics, Genomics & Bioinformatics	Shou-wei Ding, Plant Pathology Yinsheng Wang, Chemistry
2005-06	CHARLES JANG	Genetics, Genomics & Bioinformatics	Julia Bailey-Serres, Botany & Plant Sciences Thomas Girke, CEPCEB Bioinformatics
2005-06	JAMES KIM	Cell, Molecular & Developmental Biology	Kathy Borkovich, Plant Pathology Cynthia Larive, Chemistry
2005-06	COLLEEN KNOTH	Plant Biology	Thomas Eulgem, Botany & Plant Sciences Thomas Girke, CEPCEB Bioinformatics
2005-06	CHRISTIANA MERRYWELL	Chemistry	Cynthia Larive, Chemistry Natasha Raikhel, Botany & Plant Sciences
2006-07	EDDIE CAO	Computer Science	Thomas Girke, CEPCEB Bioinformatics
2006-07	JOLENE DIEDRICH	Analytical Chemistry	Wenwan Zhong, Chemistry Ryan Julian, Chemistry
2006-07	THERESA DINH	Plant Biology	Xuemei Chen, Botany & Plant Sciences
2006-07	KAYLA HAMERSKY	Analytical Chemistry	Cynthia Larive, Chemistry
2006-07	AUGUSTA JAMIN	Genetics, Genomics & Bioinformatics	Zhenbiao Yang, 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.

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

Participating Faculty in the CEPCEB REU Program: <http://cepceb.ucr.edu/about/REUAfter2007.html#UnderGradTrain>

The following students participated in the 2006 REU Program in CEPCEB Labs and presented at the REU Symposium on August 18, 2006:

REU Student	College/University	CEPCEB Faculty Lab	Mentor
McKell Dilg	Brigham Young University, Provo, UT	Jian-Kang Zhu	Paul Verslues
Caleb Jones	Eastern Oregon University, La Grande, OR	Katherine Borkovich	Liubov Litvinkova
Abby Nitschke	Loyola University, Chicago, IL	Zhenbiao Yang	Ying Fu
Larry Page	University of Missouri, Columbia, MO	Mihri Ozkan	Nate Portney
Fady Rofail	Cerritos Community College, Norwalk, CA	A.L.N. Rao	A.L.N. Rao
Angela Rowe	Ohio State University, Columbus, OH	Hailing Jin	Sereka Katiyar-Agarwal
Jason Schoneman	California State Polytechnic University, Pomona, CA	Howard Judelson	Howard Judelson
Cheri Tilburg	Rochester Institute of Technology, Rochester, NY	Xuemei Chen	Zhiyong Yang
John Tracey	St. Norbert College, DePere, WI	Thomas Eulgen	Mercedes Schroeder
Carrie Wang	University of Colorado, Boulder, CO	Harley Smith	Siddhartha Kanrar

OUTREACH ACTIVITIES:

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

- California State Science Fair held May 22, 2007: 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 ALEX NOTHNAGEL from the John W. North High School in Riverside, CA; and an Honorable Mention to SHADMAN CHOWDHURY.
- Regional Inland Science Fair held April 17, 2007: VASILIOS MORIKIS from Poly High School in Riverside was honored as the 2007 recipient of the CEPCEB Plant Cell Biology First Place Award (\$100) at the Inland Science and Engineering Fair in San Bernardino, California; and SRAVYA KEREMANE from North High School in Riverside received an Honorable Mention.
- All award recipients are acknowledged on the CEPCEB website (<http://cepceb.ucr.edu/news/news.htm#CSSF2007>) and (<http://cepceb.ucr.edu/endowments/endowments.htm#awardfund>)

24th Symposium in Plant Biology (see description above)

This international symposium served as an educational tool, promoting interactions among graduate students and postdoctoral researchers with some of the world's leading senior-level investigators of microRNAs (miRNAs) and small interfering RNAs (siRNAs) in plant and non-plant organisms. Out of 319 participants, approximately 33 % were from UC Riverside.

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 and with impact towards 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 (52,000 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. In the near-term, the Institute for Integrative Genome Biology will be

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

focusing on 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.

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 2006-07, the following faculty accepted invitations to join the Center for Plant Cell Biology. Currently (Oct 07), 51 faculty from 12 departments are CEPCEB members.

Cutler, Sean – Botany & Plant Sciences
Le Roch, Karine – Cell Biology & Neuroscience
Ma, Wenbo – Plant Pathology & Microbiology
Reddy, Venugopala G – Botany & Plant Sciences
Rodgers, Victor – Bioengineering
Sauer, Frank – Biochemistry
Zhong, Wenwan – Chemistry

LEADERSHIP:

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

CEPCEB Seminar Committee:

Faculty Members:

Xuemei Chen (Chair) – Botany and Plant Sciences
Venu Reddy – 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

24th Symposium in Plant Biology Coordinators:

Jian-Kang Zhu – Botany & Plant Sciences
Xuemei Chen – Botany & Plant Sciences
Shou-wei Ding – Plant Pathology & Microbiology

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

B.1: PARTICIPATING PERSONNEL

Group the personnel within each section by the Center's major research programs, if possible/appropriate.

For Faculty: Please list those UCR faculty who are members of the Academic Senate and who actively participated in center activities, e.g., a PI on a sponsored project administered by the center, member of center's advisory committee, author on a center publication, etc.

MEMBERS	Payroll Title	Affiliation
Bachant, Jeffrey	Assistant Professor of Cell Biology	Cell Biol & Neuroscience
Bailey-Serres, Julia	Professor of Genetics	Botany & Plant Sciences
Borkovich, Katherine	Professor	Plant Pathology
Chen, Xuemei	Associate Professor of Plant Cell and Molecular Biology	Botany & Plant Sciences
Cheng, Quan	Assistant Professor of Chemistry	Chemistry
Cui, Xiping	Assistant Professor	Statistics
Cutler, Sean	Assistant Professor and Plant Cell Biologist	Botany & Plant Sciences
Ding, Shou-Wei	Professor	Plant Pathology
Eulgem, Thomas	Assistant Professor	Botany & Plant Sciences
Gallie, Daniel	Professor	Biochemistry
Girke, Thomas	Director, Bioinformatics Facility; Assistant Professor	Botany & Plant Sciences
Huang, Anthony	Professor of Plant Cell and Molecular Biology	Botany & Plant Sciences
Jiang, Tao	Professor	Computer Science & Eng.
Jin, Hailing	Assistant Professor	Plant Pathology
Judelson, Howard	Professor	Plant Pathology
Larive, Cynthia	Professor of Chemistry	Chemistry
Le Roch, Karine G.	Assistant Professor	Cell Biol & Neuroscience
Li, Bai-lian Larry	Professor of Ecology	Botany & Plant Sciences
Liao, Jiayu	Assistant Professor of Bioengineering	Bioengineering
Lonardi, Stefano	Assistant Professor	Computer Science & Eng.
Lord, Elizabeth	Professor of Botany; Vice Provost for Academic Personnel	Botany & Plant Sciences
Ma, Wenbo	Assistant Professor	Plant Pathology
Maduro, Morris	Assistant Professor of Biology	Biology
Morikis, Dimitrios	Associate Researcher	Bioengineering
Morton, Thomas	Professor of Chemistry	Chemistry
Murashige, Tosh		<i>(honorary)</i>
Nothnagel, Eugene A.	Professor of Plant Physiology	Botany & Plant Sciences
Nugent, Connie	Assistant Professor	Cell Biol & Neuroscience
Ozkan, Cengiz	Assistant Professor	Mechanical Engineering
Ozkan, Mihri	Assistant Professor of Electrical Engineering	Elec Engineering/Ctr for Nanoscale Science & Eng
Pirrung, Michael	Professor and UC Presidential Chair	Chemistry
Rao, A.L.N.	Associate Professor	Plant Pathology
Reddy, Venugopala G.	Assistant Professor/Plant Cell Biologist	Botany & Plant Sciences
Rodgers, Victor	Professor	Bioengineering
Sauer, Frank	Assistant Professor	Biochemistry
Schultz, Jerome	Distinguished Professor	Bioengineering
Smith, Harley	Assistant Professor	Botany & Plant Sciences
Springer, Patricia S.	Associate Professor of Genetics	Botany & Plant Sciences
Walling, Linda L.	Professor of Genetics	Botany & Plant Sciences
Wang, Yinsheng	Associate Professor	Chemistry
Xu, Guanshui	Associate Professor	Mechanical Engineering
Xu, Shizhong	Professor of Genetics & Geneticist	Botany & Plant Sciences
Yang, Zhenbiao	Professor in Plant Cell Biology	Botany & Plant Sciences
Zhong, Wenwan	Assistant Professor	Chemistry
Zhu, Jian-Kang	Professor of Plant Cell Biology	Botany & Plant Sciences

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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

(This information is contained in Section A1.)

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

PROFESSIONAL/TECHNICAL/RESEARCH STAFF

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.

Payroll Title	Name	CEPCEB Lab	Dept
Visiting Professor	Li, Wenxue	Zhu, Jian-Kang	Botany & Plant Sciences
Visiting Professor	Kang, Hoduck	Zhu, Jian-Kang	Botany & Plant Sciences
Assistant Research Plant Cell Biologist	Glenn Hicks	Raikhel, Natasha	Botany & Plant Sciences
Assistant Research Plant Cell Biologist	Marci Surpin	Raikhel, Natasha	Botany & Plant Sciences
Specialist	Ah Fong, Audrey	Judelson, Howard S.	Plant Pathology and Microbiology
Specialist	Krystofova, Svetlana	Borkovich, Katherine A.	Plant Pathology and Microbiology
Specialist	Oosumi, Teruko	Bailey-Serres, Julia	Botany & Plant Sciences
Specialist	Park, Gyungsoon	Borkovich, Katherine A.	Plant Pathology and Microbiology
Assistant Specialist	Broitman-Maduro, Gina	Maduro, Morris	Biology
Assistant Specialist	Padmanabhan, Chellappan	Jin, Hailing	Plant Pathology and Microbiology
Assistant Specialist	Park, Sang-Youl	Walling, Linda	Botany & Plant Sciences
Assistant Specialist	Ramachandran, Vanitha	Chen, Xuemei	Botany & Plant Sciences
Junior Specialist	Wei, Yu-Hung (Linda)	Eulgern, Thomas	Botany & Plant Sciences
Junior Specialist	Hegde, Nayana	Reddy, Venugopala G.	Botany & Plant Sciences
Junior Specialist	Li, Xiaofe	Cutler, Sean	Botany & Plant Sciences
Postgraduate Researcher	Agarwal, Surekha Katiyar	Jin, Hailing	Plant Pathology and Microbiology
Postgraduate Researcher	Chaudhary, Sumit	Ozkan, Mihri	Electrical Engineering
Postgraduate Researcher	De Wispelaere, Melissanne	Rao, A.L.N.	Plant Pathology and Microbiology
Postgraduate Researcher	Ding, Zhenhua	Reddy, Venugopala G.	Botany & Plant Sciences
Postgraduate Researcher	Evrard, Alex	Eulgern, Thomas	Botany & Plant Sciences
Postgraduate Researcher	Fujii, Hiroaki	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Fukao, Takeshi	Bailey-Serres, Julia	Botany & Plant Sciences
Postgraduate Researcher	Han, Jong Ho	Cheng, Quan (Jason)	Chemistry
Postgraduate Researcher	He, Xinjian	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Huang, Yaodong	Pirrung, Michael	Chemistry
Postgraduate Researcher	Jaganatha, Venkateswari	Springer, Patricia S.	Botany & Plant Sciences
Postgraduate Researcher	Kanrar, Siddhartha	Smith, Harley	Botany & Plant Sciences
Postgraduate Researcher	Kim, Suntae	Lord, Elizabeth	Botany & Plant Sciences
Postgraduate Researcher	Korir, Albert	Larive, Cynthia	Chemistry
Postgraduate Researcher	Lee, Yong-Jik	Yang, Zhenbiao	Botany & Plant Sciences
Postgraduate Researcher	Li, Jishan	Zhong, Wenwan	Chemistry
Postgraduate Researcher	Lida, Kei	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Lin, Wan-Ching	Springer, Patricia S.	Botany & Plant Sciences
Postgraduate Researcher	Lou, Ying	Jin, Hailing	Plant Pathology and Microbiology
Postgraduate Researcher	Lu, Xiao-Yan	Zhu, Jian-Kang	Botany & Plant Sciences

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

PROFESSIONAL/TECHNICAL/RESEARCH STAFF (Cont.)

Payroll Title	Name	CEPCEB Lab	Dept
Postgraduate Researcher	Madishetty, Kavitha	Judelson, Howard S.	Plant Pathology and Microbiology
Postgraduate Researcher	Miki, Daisuke	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Mondal, Tapan	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Mustroph, Angelika	Bailey-Serres, Julia	Botany & Plant Sciences
Postgraduate Researcher	Navarro, Michelle	Bachant, Jeffrey	Cell Biology & Neuroscience
Postgraduate Researcher	Norambuena, Lorena	Raikhel, Natasha V.	Botany & Plant Sciences
Postgraduate Researcher	Oono, Youko	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Pierce, Marcela Rojas	Raikhel, Natasha V.	Botany & Plant Sciences
Postgraduate Researcher	Ponts, Nadia	Le Roch, Karine	Cell Biology & Neuroscience
Postgraduate Researcher	Ren, Zhonghai	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Rey, Abel Rosado	Raikhel, Natasha V.	Botany & Plant Sciences
Postgraduate Researcher	Sohn, Eun-Ju	Raikhel, Natasha V.	Botany & Plant Sciences
Postgraduate Researcher	Sridhar, Veniyambadi	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Sutoh, Keita	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Torkzoban, Saeed	Walker, Sharon	Chemical/EnvEngineering
Postgraduate Researcher	Tsuchiya, Tokuji	Eulgem, Thomas	Botany & Plant Sciences
Postgraduate Researcher	Verslues, Paul	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Xiang, Qijun	Judelson, Howard S.	Plant Pathology & Microbiology
Postgraduate Researcher	Xiong, Dennis	Pirrung, Michael	Chemistry
Postgraduate Researcher	Yadav, Ram-Kishore	Reddy, Venugopala G.	Botany & Plant Sciences
Postgraduate Researcher	You, Na	Cui, Xiping	Statistics
Postgraduate Researcher	Yu, Bin	Chen, Xuemei	Botany & Plant Sciences
Postgraduate Researcher	Zheng, Binglian	Chen, Xuemei	Botany & Plant Sciences
Postgraduate Researcher	Zheng, Xianwu	Zhu, Jian-Kang	Botany & Plant Sciences
Postgraduate Researcher	Zhou, Huanbin	Ma, Wenbo	Plant Pathology & Microbiology
Postgraduate Researcher	Zhu, Jianhua	Zhu, Jian-Kang	Botany & Plant Sciences
Staff Research Associate	Holzer, Fran	Walling, Linda	Botany & Plant Sciences
Staff Research Associate	Mallik, Buddhadeb	Morikis, Dimitrios	Bioengineering
Staff Research Associate	Morgan, Robyn	Ma, Wenbo	Biology
Staff Research Associate	Prudhomme, Jacque	Le Roch, Karine	Cell Biology & Neuroscience
Staff Research Associate	Stevenson, Rebecca	Zhu, Jian-Kang	Botany & Plant Sciences
Staff Research Associate	van de Ven, Willhemina	Raikhel, Natasha V.	Botany & Plant Sciences
Visiting Asst. Researcher	Drakakaki, Georgia	Botany & Plant Sciences	Raikhel, Natasha V.
Visiting Asst. Researcher	Hwang, Jae-Ung	Botany & Plant Sciences	Yang, Zhenbiao
Visiting Asst. Researcher	Sridhar, Jayalakshmi	Bioengineering	Morikis, Dimitrios
Visiting Asst. Researcher	Zabotina, Olga	Botany & Plant Sciences	Raikhel, Natasha V.
Asst. Project Scientist	Fu, Ying	Botany & Plant Sciences	Yang, Zhenbiao
Laboratory Assistant	Altamirano, Lorena	Plant Pathology & Microbiology	Borkovich, Katherine A.
Laboratory Assistant	Bala, Shruthi	Botany & Plant Sciences	Lord, Elizabeth
Laboratory Assistant	Jablonska, Barbara	Botany & Plant Sciences	Springer, Patricia S.
Programmer/Analyst II	Lesniak, Shawn	Center for Plant Cell Biology	Girke, Thomas

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

GRADUATE STUDENTS

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

Graduate Program	Graduate Student	CEPCEB Faculty Mentor
Analytical Chemistry/CEPCEB ChemGen IGERT Analytical Chemistry Analytical Chemistry Analytical Chemistry Analytical Chemistry Biochemistry and Molecular Biology Biochemistry and Molecular Biology Biochemistry and Molecular Biology Biochemistry and Molecular Biology Biochemistry and Molecular Biology Biochemistry and Molecular Biology Biochemistry and Molecular Biology Bioengineering Bioengineering Dept Bioengineering Dept. Bioengineering Dept. Botany & Plant Sciences Botany & Plant Sciences Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology/CEPCEB ChemGen IGERT Cell, Molecular and Developmental Biology/CEPCEB ChemGen IGERT Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Cell, Molecular and Developmental Biology Chemical & Environmental Engineering Chemical & Environmental Engineering Chemical & Environmental Engineering Chemical & Environmental Engineering Chemical & Environmental Engineering Chemical & Environmental Engineering Chemical & Environmental Engineering	Diedrich, Jolene Dong, Yi Linman, Matt Owen, Thomas Taylor, Joey Baldwin, Melissa Jones, Carol Julius, Jeffrey Lee, Ming-Ta Martinez, Sara Won, Susan Yiheng Wang Biglione, Niki Treniece Terry Zhang, Taiying Ndatimana, Theo Ngyen, Mindy Chae, Keun Choi, Soon Gasparayan, Hovik Jamin, Augusta Kim, James Lin, Katy (Tan-Hui) Owraghi, Melissa Petreaca, Ruben C. Small, Vanessa Wallace, Isha Warsi, Tariq Xu, Ling Chen, Gexin Gong, Amy Haznedaroglu, Berat Kim, Hyungung (Nick) Portney, Nate Singh, Krishna Xu, Wang	Zhong, Wenwan Cheng, Quan (Jason) Cheng, Quan (Jason) Cheng, Quan (Jason) Cheng, Quan (Jason) Bachant, Jeffrey Borkovich, Katherine A. Bachant, Jeffrey Bachant, Jeffrey Borkovich, Katherine A. Borkovich, Katherine A. Rodgers, Victor Rodgers, Victor Rodgers, Victor Rodgers, Victor Rodgers, Victor Eulgem, Thomas Eulgem, Thomas Lord, Elizabeth Rao, A.L.N. Nugent, Nugent Yang, Zhenbiao Borkovich, Katherine A. Maduro, Morris Maduro, Morris Nugent, Nugent Nugent, Nugent Bachant, Jeffrey Bachant, Jeffrey Nugent, Nugent Walker, Sharon Walker, Sharon Walker, Sharon Walker, Sharon Ozkan, Mihri Ozkan, Mihri Ozkan, Cengiz

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

GRADUATE STUDENTS (Cont.)

Graduate Program	Graduate Student	CEPCEB Faculty Mentor
Chemistry	Bolden, Jenifer	Pirrung, Michael
Chemistry	Cruz, Jennifer	Larive, Cynthia
Chemistry	Eldridge, Stacie	Larive, Cynthia
Chemistry	Ford, Bruce	Pirrung, Michael
Chemistry	Li, Ni	Zhong, Wenwan
Chemistry	Limtiaco, John	Larive, Cynthia
Chemistry	Massoud, Theresa	Pirrung, Michael
Chemistry	Panama, Brian	Morton, Thomas
Chemistry	Satoorian, Tiffany	Pirrung, Michael
Chemistry	Serafin, Scott	Morton, Thomas
Chemistry	Sissung, Tristan	Morton, Thomas
Chemistry	Yao, Jingjing	Zhong, Wenwan
Chemistry	Zhang, Li	Morikis, Dimitrios
Chemistry/CEPCEB ChemGen IGERT	Hamersky, Kayla	Larive, Cynthia
Chemistry/CEPCEB ChemGen IGERT	Merrywell, Christiana	Larive, Cynthia
Chemistry/CEPCEB ChemGen IGERT	Merrywell, Christiana	Raikhel, Natasha V.
Computer Science	Bozdag, Serdar	Lonardi, Stefano
Computer Science	Vacic, Vladimir	Lonardi, Stefano
Computer Science	Wu, Yonghui	Lonardi, Stefano
Computer Science	Yang, Jianfeng	Le Roch, Karine
Computer Sciences/CEPCEB ChemGen IGERT	Cao, Yiqun (Eddie)	Girke, Thomas
Computer Sciences	Horan, Kevin	Girke, Thomas
Electrical Engineering	Akin, Engin	Ozkan, Mihri
Electrical Engineering	Kao, Jack	Ozkan, Mihri
Electrical Engineering	Kyle, Jennifer	Ozkan, Mihri
Electrical Engineering	Liu, Min	Roy-Chowdhury, Amit K.
Electrical Engineering	Lu, Haiwei	Ozkan, Mihri
Electrical Engineering	Matrinez-Morales, Alfredo	Ozkan, Mihri
Electrical Engineering	Penchev, Miroslav	Ozkan, Mihri
Electrical Engineering	Pereda, David	Ozkan, Mihri
Electrical Engineering	Song, Bi	Roy-Chowdhury, Amit K.
Electrical Engineering	Soto-Wilder, Christian Felipe	Roy-Chowdhury, Amit K.
Electrical Engineering	Xu, Yilei	Roy-Chowdhury, Amit K.
Environmental Toxicology	Ren, Lei	Zhong, Wenwan
Genetics, Genomics and Bioinformatics	Brown, Michelle	Raikhel, Natasha V.
Genetics, Genomics and Bioinformatics	Chang, Ruth	Bailey-Serres, Julia
Genetics, Genomics and Bioinformatics	Charisi, Anna	Girke, Thomas

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

GRADUATE STUDENTS (Cont.)

Graduate Program	Graduate Student	CEPCEB Faculty Mentor
Genetics, Genomics and Bioinformatics/CEPCEB ChemGen IGERT	Elkashef, Samer	Ding, Shouwei
Genetics, Genomics and Bioinformatics	Jang, Charles	Bailey-Serres, Julia
Genetics, Genomics and Bioinformatics	Lai, Shruti	Smith, Harley
Genetics, Genomics and Bioinformatics	Pasala, Sumana	Springer, Patricia S.
Genetics, Genomics and Bioinformatics	Roy, Sourav	Judelson, Howard S.
Mechanical Engineering	Fang, Zijun	Xu, Guanshui
Mechanical Engineering	Ghazinejad, Maziar	Ozkan, Cengiz
Mechanical Engineering	Hong, Jeongmin	Ozkan, Cengiz
Mechanical Engineering	Khan, M.Ibrahim	Ozkan, Cengiz
Mechanical Engineering	Lin, Jian (Javen)	Ozkan, Cengiz
Mechanical Engineering	Liu, Gang	Xu, Guanshui
Mechanical Engineering	Zhang, Yu (Fiona)	Ozkan, Cengiz
Plant Biology	Agee, April	Raikhel, Natasha V.
Plant Biology	Alonzo, Virginia	Walling, Linda
Plant Biology	Chen, Angel	Walling, Linda
Plant Biology	Defries, Andrew	Cutler, Sean
Plant Biology	Husbands, Aman	Springer, Patricia S.
Plant Biology	Ji, Lijuan	Chen, Xuemei
Plant Biology	Junqueira, Ricardo	Smith, Harley
Plant Biology	Kamsak, Ornusa	Lord, Elizabeth
Plant Biology	Kim, YunJu	Chen, Xuemei
Plant Biology	Lee, Dong-Keun	Springer, Patricia S.
Plant Biology	Mangeon, Amanda	Springer, Patricia S.
Plant Biology	Salus, Melinda	Eulgem, Thomas
Plant Biology	Schroeder, Mercedes	Eulgem, Thomas
Plant Biology	Wu, Shang	Zhu, Jian-Kang
Plant Biology	Xie, Mingtang	Zhu, Jian-Kang
Plant Biology	ya Kim, Panya	Springer, Patricia S.
Plant Biology	Yan, An	Yang, Zhenbiao
Plant Biology	Yu, Lifeng	Smith, Harley
Plant Biology	Zarate, Sonia	Walling, Linda
Plant Biology/CEPCEB ChemGen IGERT	Dinh, Theresa	Chen, Xuemei
Plant Biology/CEPCEB ChemGen IGERT	Knoth, Colleen	Eulgem, Thomas
Plant Pathology	Gao, Shang	Jin, Hailing
Plant Pathology	Li, Liande	Borkovich, Katherine A.
Plant Pathology	Niu, Xiaofan	Judelson, Howard S.
Statistics	Chen, Xin	Cui, Xiping
Statistics	Shi, Nigie	Cui, Xiping
Statistics	Wilson, Jason	Cui, Xiping

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

UNDERGRADUATE STUDENTS

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

DEPARTMENT	Undergraduate Student	CEPCEB Faculty Mentor
Bioengineering	Balasubramanian, Shruthi	Rodgers, Victor
Bioengineering	Bentley, Jason	Rodgers, Victor
Bioengineering	Bickford, Shelby	Rodgers, Victor
Bioengineering	Bray, Crystal	Rodgers, Victor
Bioengineering	McBride, Devin	Rodgers, Victor
Bioengineering	Moore, J. D.	Rodgers, Victor
Bioengineering	Cheung, Alexander	Morikis, Dimitrios
Biology	Cheung, Jeffrey	Ma, Wenbo
Botany & Plant Sciences	Cervantes, Rafael	Raikhel, Natasha V.
Botany & Plant Sciences	Courtier, Jennifer	Smith, Harley
Botany & Plant Sciences	Gonong, Benedict	Lord, Elizabeth
Botany & Plant Sciences	Lau, Wilson	Nothnagel, Eugene A.
Botany & Plant Sciences	Mariscal, Cynthia	Raikhel, Natasha V.
Botany & Plant Sciences	Ndatimana, Theo	Eulgem, Thomas
Botany & Plant Sciences	Nguyen, Jacqueline	Raikhel, Natasha V.
Botany & Plant Sciences	Nguyen, Linh Thuy	Raikhel, Natasha V.
Botany & Plant Sciences	Ngyen, Mindy	Eulgem, Thomas
Botany & Plant Sciences	Trinh, Tung	Nothnagel, Eugene A.
Botany & Plant Sciences	Wong, Michael	Lord, Elizabeth
Botany & Plant Sciences	Yongpradit, Daranee	Nothnagel, Eugene A.
Cell Biology & Neuroscience	McDaniel, Eric	Le Roch, Karine
Cell Biology & Neuroscience	Wong, Angus	Nugent, Nugent
Cell Biology & Neuroscience	Yacoub, Joseph	Le Roch, Karine
Chemical/Environmental Engineering	Borneman, Breanne	Walker, Sharon
Chemical/Environmental Engineering	Salam, Christopher	Walker, Sharon
Chemistry	Huynh, Richard	Morton, Thomas
Chemistry	Liao, Vivian	Morton, Thomas
Electrical Engineering	Dallal, Freida	Ozkan, Mihri
Electrical Engineering	Kaladjian, Jacklyn	Ozkan, Mihri

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

B.2: CENTER PUBLICATIONS

PLANT CELL BIOLOGY

Chae K, Zhang K, Zhang L, **Morikis D**, Kim ST, Mollet J-C, de la Rosa N, Tan K, and **Lord EM** (2007) Two SCA (Stigma/style Cysteine-rich Adhesion) Isoforms Show Structural Differences that Correlate with Their Levels of in vitro Pollen Tube Adhesion. *Journal of Biol Chem* (in press) <http://www.jbc.org/cgi/reprint/M703997200v1>

Sohn EJ, Rojas-Pierce M, **Pan S**, Carter C, Serrano-Mislata A, Madueno F, Rojo E, Surpin M, **Raikhel NV** (2007) The shoot meristem identity gene TFL1 is involved in flower development and trafficking to the protein storage vacuole. *Proc Natl Acad Sci USA* (in press)

PLANT GROWTH and DEVELOPMENT

Chary SN, Hicks GR, Choi YG, **Carter D**, and **Raikhel NV** (2007) Trehalose-6-phosphate synthase/phosphatase regulates cell shape and plant architecture in Arabidopsis. *Plant Physiol* (in press)

Husbands A, Bel EMI, Shuai B, **Smith HMS**, and **Springer PS**. (2007) Lateral Organ Boundaries defines a new family of DNA-binding transcription factors and can interact with specific bHLH proteins. *Nucleic Acids Res*. doi: 10.1093/nar/gkm775.

Mlotshwa S, **Yang Z**, Kim YJ, and **Chen X**. (2006) Floral patterning defects induced by Arabidopsis APETALA2 and microRNA172 expression in *Nicotiana benthamiana*. *Plant Molecular Biology* 61: 781-793.

Verslues PE, Guo Y, Dong CH, **Ma W**, **Zhu JK**. (2006) Mutation of SAD2, an importin beta-domain protein in Arabidopsis, alters abscisic acid sensitivity. *Plant J*. 47:776-787.

BIOINFORMATICS and COMPUTATIONAL BIOLOGY

Harper J, Gollery M, Cushman J, Mittler T, **Girke T**, **Zhu JK**, **Bailey-Serres J**, and Mittler R. (2006) What Makes Species Unique? The Contribution of Proteins with Obscure Features. *Genome Biology*, 7(7) R: 57.

Fu Z, **Chen X**, Vacic V, Nan P, Zhong Y, and **Jiang T**. (2007) MSOAR: A high-throughput ortholog assignment system based on genome rearrangement. *Journal of Computational Biology* 14(9): 1160-1175; also presented at RECOMB'06.

Li H, **Chen X**, and **Jiang T**. (2006) A general framework for biclustering gene expression data. *Journal of Bioinformatics and Computational Biology (JBCB)* 4(4):911-923.

SIGNAL TRANSDUCTION

Gu Y, Li S, **Lord E**, and **Yang Z**. (2006) Members of a novel class of Arabidopsis Rho guanine nucleotide exchange factor (RopGEFs) control Rop GTPase-dependent polar growth. *Plant Cell*. 18:366-381.

Wang Y, Liu J, Xia R, Wang J, Shen J, Cao R, Hong X, **Zhu JK**, Gong Z. (2007) The protein kinase TOUSLED is required for maintenance of transcriptional gene silencing in Arabidopsis. *EMBO Rep*. 8:77-83.

Katiyar-Agarwal S, Gao S, Vivian-Smith A, Jin H (2007) A novel class of bacteria-induced small RNAs in Arabidopsis. *Genes Dev* 21 (23).

Katiyar-Agarwal S, Morgan R, Dahlbeck D, Borsani O, Villegas Jr A, **Zhu JK**, Staskawicz B and **Jin H**. (2006) A pathogen-inducible endogenous siRNAs in plant immunity. *PNAS* 103: 18002-18007.

CHEMICAL GENOMICS

Zhao Y, Chow TF, Puckrin RS, Alfred SE, Korir AK, **Larive CK** and **Cutler SR** (2007). "Chemical genetic interrogation of natural variation uncovers a molecule that is glycoactivated". *Nature Chemical Biology* (AOP Sept 23, 2007).

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* (in press).

ENVIRONMENTAL RESPONSES

Katiyar-Agarwal S, Zhu J, Kim K, Agarwal M, Fu X, **Huang A**, **Zhu JK**. (2006) The plasma membrane Na⁺/H⁺ antiporter SOS1 interacts with RCD1 and functions in oxidative stress tolerance in Arabidopsis. *Proc Natl Acad Sci U S A*. 103:18816-18821.

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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

Fiscal Year Period: 2006-07

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
HAILING JIN, Plant Pathology & Microbiology	NSF Faculty Early Career Development (CAREER) Award	2007
NATASHA RAIKHAL, Botany & Plant Sciences	2007 Fellow of American Society of Plant Biologists (ASPB) Award	2007
CYNTHIA LARIVE, Chemistry	2007 J. Calvin Giddings Award for Excellence in Education	2007
NATASHA RAIKHEL, Botany & Plant Sciences	2007-08 Faculty Research Lecturer Award	2007
XUEMEI CHEN, Botany & Plant Sciences	2006-07 University Scholar Award (UCR)	2007
MIHRI OZKAN, Electrical Engineering	2006 Referee of the Year Award by the Journal of Biomedical Microdevices	2007
MADURO, MORRIS, Biology	NSF Faculty Early Career Development (CAREER) Award	2007
XUEMEI CHEN, Botany & Plant Sciences	2006 Charles Albert Shull Award by the American Society of Plant Biologists	2006
THOMAS EULGEM, Botany & Plant Sciences	2006 Chancellor's Award for Excellence in Undergraduate Research	2006
MIHRI OZKAN, Electrical Engineering	Army's "Young Investigator Award"	2006
MIHRI OZKAN, Electrical Engineering	Distinguished Engineering Educator of the Year Award by the National Engineers' Council	2006
MIHRI OZKAN, Electrical Engineering	Regents Faculty Excellence Award	2006
TAO JIANG, Computer Science & Engineering	American Association for the Advancement of Science Fellow	2006
KATHERINE BORKOVICH, Plant Pathology & Microbiology	American Association for the Advancement of Science Fellow	2006
SHOU-WEI DING, Plant Pathology & Microbiology	American Association for the Advancement of Science Fellow	2006
LARRY LI, Botany & Plant Sciences	American Association for the Advancement of Science Fellow	2006
SHIZHONG XU, Botany & Plant Sciences	American Association for the Advancement of Science Fellow	2006
VICTOR RODGERS, Bioengineering	American Association for the Advancement of Science Fellow	2006
TAO JIANG, Computer Science & Engineering	American Association for the Advancement of Science Fellow	2006
DIMITRIOS MORIKIS, Bioengineering	American Association for the Advancement of Science Fellow	2006

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

B.4: EVENTS SPONSORED BY CENTER

Fiscal Year Period: 2006-07

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 Second Annual Retreat	Faculty and Student Retreat	October 20-22, 2006	43	THOMAS KODADEK	Professor of Internal Medicine and Molecular Biology at the University of Texas Southwestern Medical Center
NSF REU Summer Symposium	Student Symposium	August 18, 2006	~50	2006 REU Students (10)	Listed on p. 5
CEPCEB Noel T. Keen Annual Lecture and Award Ceremony	Award Ceremony	February 9, 2007	~70	BERNARD O. PALSSON	Galetti Professor of Bioengineering and Adjunct Professor Medicine at the University of California, San Diego
24 th Symposium in Plant Biology: Gene Silencing – The Biology of Small RNAs and the Epigenome (partial sponsorship)	Annual Plant Biology Symposium	January 18-20, 2007	319 (105 CECPEB faculty/students)	See Attachment A (3 CEPCEB Faculty Speakers; 7 CEPCEB Faculty Session Chairs)	
CEPCEB Quarterly PI Luncheons	Seminar Luncheons	April 27, 2006 June 15, 2006 February 8, 2007 May 18, 2007	~15	SHOUWEI DING XUEMEI CHEN LARRY LI VENUGOPALA REDDY	Professor, UCR Plant Pathology & Microbiology Assoc. Professor, UCR Botany & Plant Sciences Professor, UCR Botany & Plant Sciences Asst. Professor, UCR Botany & Plant Sciences
CEPCEB Seminar Series	Seminars	Weekly	~25	See Attachment B	
IGERT Seminar Series	Seminars	8/yr	~25	See Attachment B	

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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
Arabidopsis 2010: Integrating the Unknown-eome with Abiotic Stress Response Networks in Arabidopsis	Julia Bailey-Serres	Thomas Girke; Jian-Kang Zhu	NSF	9/1/2004-8/31/2008	\$1,860,990	\$66,677
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

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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	P I	Co-PIs	Funding Agency	Period of Funding	Total Award Requested	Status
						Pending

Name of Research Center Center for Plant Cell Biology

Period of Review: FY 2006-07

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	\$ 270,932
Funding Provided by UC System Sources		
Funding from Endowments or Gifts		
Funding from Other Sources (Please List)	CEPCEB Award Fund	\$ 5,536
		\$2 76,468

24th Symposium in Plant Biology
“Gene Silencing: The Biology of Small RNAs and the Epigenome”

Organizers: Jian-Kang Zhu, Shou-Wei Ding, and Xuemei Chen,
 University of California, Riverside
 Riverside Convention Center, Riverside, California

January 18-20, 2007

Thursday, January 18, 2007

9:00 am - 6:00 pm Registration

Session I – Small RNA biogenesis and action mechanisms

CHAIR: Donald A. Cooksey, College of Natural & Agricultural Sciences, University of California-Riverside

- 1:00 - 1:10 pm Welcoming remarks, **Donald A. Cooksey, Jian-Kang Zhu**
- 1:10 - 1:40 pm **David Baulcombe**
 Sainsbury Laboratory, John Innes Centre
 Title: Argonaute Proteins: Effectors in Multiple Silencing Pathways
- 1:40 - 2:10 pm **David Bartel**
 Whitehead Institute, Massachusetts Institute of Technology
 Title: MicroRNAs
- 2:10 - 2:40 pm Speakers (2) selected from abstracts
- 2:10 - 2:25 pm **Bernard Carroll**, The University of Queensland
 Title: Long-Distance RNAi Signaling in Arabidopsis
- 2:25 - 2:40 pm **Yijun Qi**, National Institute of Biological Sciences
 Title: A Complex System Of Small RNAs in the Unicellular Green Alga
Chlamydomonas reinhardtii
- 2:40 - 3:00 pm [Break]

CHAIR: Hailing Jin, Plant Pathology Department, University of California-Riverside

- 3:00 - 3:30 pm **James Carrington**
 Center for Genome Research & Biocomputing, Oregon State University
 Title: Genome-Wide Analysis of Small RNA-Directed Pathways in Arabidopsis
- 3:30 - 4:00 pm **Xuemei Chen**
 Botany & Plant Sciences Department, University of California-Riverside
 Title: Pol IVa Suppresses HEN1-mediated microRNA Methylation
- 4:00 - 4:30 pm **Richard Jorgensen**
 Department of Plant Sciences, University of Arizona
 Title: Evolutionary and Functional of the Epigenome: A Paragenetic Perspective on the
 Role of RNA Silencing in the Biology of Plants
- 4:30 - 5:00 pm **Craig Pikaard**
 Biology Department, Washington University

Title: RNA Polymerase IV and Nuclear siRNA Biogenesis

- 5:00 - 5:30 pm **Herve Vaucheret**
 Laboratoire de Biologie Cellulaire, Centre INRA de Versailles
 Title: Genetic Dissection of Small RNA Pathways in Arabidopsis
- 5:30 - 6:00 pm **Olivier Voinnet**
 Institut de Biologie Moleculaire des Plantes, Centre National de la Recherche Scientifique
 Title: Defensive small RNA pathways and their interference and usurpation by plant pathogens
- 6:00 - 7:30 pm **Opening Reception: Galleria/Atrio Room, Mission Inn Hotel**
- 7:30 - 9:30 pm Poster Session

Friday, January 19, 2007

Session II – Small RNA function and development

Chair: Patricia Springer, Botany & Plant Sciences Department, University of California-Riverside

- 8:30 - 9:00 am **Scott Poethig**
 Department of Biology, University of Pennsylvania
 Title: Regulation of Vegetative Phase Change in Arabidopsis by miRNAs and Trans-Acting siRNA's.
- 9:00 - 9:30 am **Detlef Weigel**
 Department of Molecular Biology, Max Plank Inst. for Developmental Biology,
 Tübingen, Germany
 Title: Specificity and Developmental Roles of Plant MicroRNAs
- 9:30 - 10:00 am **M. Kathryn Barton**
 Department of Biological Sciences, Carnegie Institution of Washington
 Title: Small RNAs and the Regulation of Polar Leaf Development and Meristem Formation
- 10:00 - 10:20 am [Break]

CHAIR: Harley Smith, Botany & Plant Sciences Department, University of California-Riverside

- 10:20 - 10:50 am **Jennifer Fletcher**
 USDA Plant Gene Expression Center, Albany, CA
 Title: Regulation of Arabidopsis Meristem and Leaf Development by miR166
- 10:50 - 11:10 am **Christian Haudenschild**
 Solexa, Inc.
 Title: High Throughput-Low Cost- Small RNA Profiling Using a Next Generation Sequencer Based on Sequencing by Synthesis
- 11:10 - 11:40 am Speakers (2) selected from abstracts
- 11:10 - 11:25 am **Adam Vivian-Smith, Leiden University**
 Title: Rescue of Dicer-like1 Mutant Lethality and Pleiotropy by Second Site Mutations

in the Parthenocarpic Gene FWF/ARF8

- 11:25 - 11:40 am **Tomasz Poprawka**, John Innes Centre
 Title: War of Polarities – A Role of Antisense RNA in the Patterning Of Leaf Primordia
- 11:40 am - 2:00 pm Lunch and Poster Session

Session III – Small RNA function in stress and other physiological processes

CHAIR: Ray Bressan, Center for Plant Stress Physiology, Purdue University

- 2:00 - 2:30 pm **Vicki Vance**
 Department of Biological Sciences, University of South Carolina
 Title: HC-Pro Suppression of RNA Silencing: Mechanistic Studies
- 2:30 - 3:00 pm **Shou-Wei Ding**
 Plant Pathology Department, University of California-Riverside
 Title: Mechanisms of Induction and Suppression of Antiviral Silencing in Plants and Animals
- 3:00 - 3:40 pm Speakers (3) selected from abstracts
- 3:00 - 3:15 pm **Hailing Jin**, University of California-Riverside
 Title: Pathogen-Inducible Endogenous siRNAs In Plant Immunity
- 3:15 - 3:25 pm **Jin-Biao Ma**, Memorial Sloan-Kettering Cancer Center
 Title: Structural Basis for siRNA Recognition by Viral Suppressor 2b from Tomato Aspermy Virus
- 3:25 - 3:40 pm **Lionel Navarro**, Institut de Biologie Moleculaire des Plantes du Centre National de la Recherche Scientifique
 Title: Epigenetic Control of the Arabidopsis Immune Response through Specific cis-acting siRNA Species
- 3:40 - 4:00 pm [Break]

CHAIR: Julia Bailey-Serres, Botany & Plant Sciences Dept., University of California-Riverside

- 4:00 - 4:30 pm **Jian-Kang Zhu**
 Botany & Plant Sciences Department, University of California-Riverside
 Title: Stress-regulated siRNAs and miRNAs
- 4:30 - 5:00 pm **Pamela Green**
 Delaware Biotechnology Institute, University of Delaware
 Title: Analysis of the Small RNAs of Arabidopsis and Rice
- 5:00 - 5:30 pm **Nina Fedoroff**
 Biology Department, Penn State University
 Title: Studies on the Role of the HYL1 Protein in miRNA Process
- 5:30 - 5:35pm **Mona D. Lee**
 Industry-University Cooperative Research Program (IUCRP)
- 5:35 - 8:00 pm [Dinner on own]

8:00 - 10:00 pm Poster Session

Saturday, January 20, 2007

Session IV – Transcriptional silencing and DNA methylation

CHAIR: Mary Clutter, Former Asst. Director for the NSF Biological Sciences Directorate

- 8:30 - 9:00 am **Vicki Chandler**
Department of Plant Sciences, University of Arizona
Title: Tandem Repeats Mediate Heritable Chromatin Changes through an RNA-Directed Mechanism
- 9:00 - 9:30 am **Marjori Matzke**
Gregory Mendel Institute of Molecular Biology, Austrian Academy of Sciences
Title: RNA-directed DNA Methylation: a Versatile Pathway for Transcriptional Gene Silencing in Plants
- 9:30 - 10:00 am **Jerzy Paszkowski**
Laboratory of Plant Genetics, University of Geneva
Title: Regulatory Loops Driven by DNA Methylation
- 10:00 - 10:30 am Speakers (2) selected from abstracts
- 10:00 - 10:15 am **Vaniyambadi Sridhar**, University of California-Riverside
Title: Requirement of a Deubiquitination Enzyme in siRNA-directed DNA Methylation and Heterochromatic Silencing in Arabidopsis
- 10:15 - 10:30 am **Vibha Srivastava**, University of Arkansas
Title: Exon Methylation Leads to Transcriptional Silencing of Phytochrome A (phyA) Gene
- 10:30 - 10:50 am [Break]

CHAIR: Zhenbiao Yang, Botany & Plant Sciences Department, University of California-Riverside

- 10:50 - 11:20 am **Steve Jacobsen**
Department of Molecular, Cell & Developmental Biology, University of California-Los Angeles
Title: DNA Methylation in Arabidopsis
- 11:20 - 11:50 am **Judith Bender**
Biochemistry and Molecular Biology Department, Johns Hopkins University
Title: Histone Methyltransferases that Control DNA Methylation in Arabidopsis
- 11:50 am - 12:20 pm **Eric Richards**
Department of Biology, Washington University
Title: Natural Epigenetic Variation
- 12:30 - 2:00 pm Lunch and Poster Session

Session V – Transcriptional silencing and histone modifications

CHAIR: Natasha Raikhel, Center for Plant Cell Biology/Institute for Integrative Genome Biology, University of California-Riverside

- 2:00 - 2:30 pm **Robert Martienssen**
Cold Spring Harbor Laboratory
Title: Small RNA, Chromosome Organization and Epigenetic Regulation in Arabidopsis and Fission Yeast
- 2:30 - 3:00 pm **Richard Amasino**
Department of Biochemistry, University of Wisconsin
Title: Vernalization: Remembering Winter with an Environmentally Induced Epigenetic Switch
- 3:00 - 3:30 pm **Caroline Dean**
Cell and Developmental Biology Department, John Innes Center
Title: Linking RNA Processing, RNAi and Chromatin in FLC Regulation
- 3:30 - 4:00 pm Speakers (2) selected from abstracts
- 3:30 - 3:45 pm **Assaf Zemach**, The Weizmann Institute of Science
Title: AtMBD7 Contains Four Chromatin-Binding Motifs and Could Directly Compact Chromatin through Binding to Multiple Methylated-CpG Sites
- 3:45 - 4:00 pm **Elizabeth Dennis**, CSIRO Division of Plant Industry
Title: Polycomb Complexes – Different Components and Associations for Different Roles
- 4:00 - 4:20 pm [Break]

CHAIR: Frank Sauer, Biochemistry Department, University of California-Riverside

- 4:20 - 4:50 pm **Zhizhong Gong**
College of Biological Sciences, China Agricultural University
Title: Transcriptional Gene Silencing Spreading in Arabidopsis
- 4:50 - 5:20 pm **Steven Henikoff**
Basic Sciences Division, Fred Hutchinson Cancer Research Center
Title: DNA Methylation Clusters in Arabidopsis Genes
- 5:20 - 5:50 pm **Danesh Moazed**
Department of Cell Biology, Harvard University
Title: RNAi and Heterochromatin Assembly
- 7:00 - 10:00 pm **Closing Banquet: Grand Ballroom Foyer, Marriott Hotel**

CEPCEB/IGERT SEMINARS (FY 2006-07)

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
June 06			
CEPCEB (Friday)	2 Keun Chae Botany and Plant Sciences	"SCA (<i>Stigma/Style Cysteine-rich Adhesin</i>) Isoforms in Lily Pollen Tube Adhesion"	Elizabeth Lord
IGERT (Monday)	5 Yunde Zhao University of California, San Diego	"The YUCCA genes in auxin biosynthesis and plant development"	Hailing Jin
IGERT (Friday)	9 Stephen Duke USDA-ARS University of Mississippi-Oxford	"Pest Management Phytochemicals: Strategies for Discovery and Utilization"	Julia Bailey-Serres
	16 No Seminar-Finals Week		
CEPCEB (Friday)	23 Siddhartha Kanrar Botany and Plant Sciences	"Integration of long day pathway signals in Shoot Apical Meristem of Arabidopsis"	Harley Smith
July '06			
CEPCEB (Friday)	7 Aman Husbands Botany and Plant Sciences	"The LOB domain mediates both DNA-binding and protein-protein interactions in Arabidopsis"	Patricia Springer
CEPCEB (Friday)	14 Jae Ung Hwang Botany and Plant Sciences	"Cell polarity in long distance tip growth is controlled by feed-forward lateral amplification and global inhibition of a Rho-family GTPase"	Zhenbiao Yang
CEPCEB (Friday)	21 XH Wang Plant Pathology	"RNA Interference Directes Innate Immunity Against Viruses in Adult Drosophila"	Shou-wei Ding
CEPCEB	28 Pamela Green Delaware Biotechnology Institute University of Delaware, Newark, DE	"Elucidating the small RNA profile of the transcriptome"	Hailing Jin
August '06			
	4 No Seminar		
CEPCEB	18 CEPCEB-REU SYMPOSIUM	Student Symposium in Science Library	
CEPCEB (Friday)	25 Kavitha Kothakonda Botany and Plant Sciences	"Physical Mapping of the Barley Genome using Overgo Probe Hybridization"	Tim Close
Sept '06			
CEPCEB (Friday)	1 Songqin Pan Academic Coordinator, Proteomics	"A Label-free Approach for Quantitative Proteomics "	N/A
CANCELLED	15 IGERT Speaker-TBA	CANCELLED NO SEMINAR	
	22 No Seminar		
	29 No Seminar		
Oct '06			
CEPCEB (Friday)	6 Tokuji Tsuchiya Botany and Plant Sciences	"EDM2 a Novel Transcriptional Regulator Mediating Disease Resistance in Arabidopsis"	Thomas Eulgem
IGERT (Friday)	13 Helen Blackwell Department of Chemistry University of Wisconsin-Madison	"Chemical Interception of Bacterial Communication Pathways using Synthetic Ligands"	Julia Bailey-Serres
CEPCEB (Monday)	16 Alessandro Vitale Istituto di Biologia e Biotechnologia Agraria, Consiglio Nazionale delle Ricerche	"Plant endoplasmin"	Natasha Raikhel
	20 No Seminar		Zhenbiao Yang
CEPCEB (Friday)	27 Prasanna Bhat Botany and Plant Sciences	"Transition to High-Throughput Genotyping and Mapping in Barley"	Tim Close

DATE	SPEAKER	TITLE	HOST
Nov '06			
CEPCEB (Friday)	3 Surekha Katiyar Agarwal Plant Pathology	"Pathogen-Inducible Endogenous siRNAs in Plant Immunity "	Hailing Jin
	10 No Seminar-Veteran's Holiday		
IGERT (Friday)	17 Eric Ward [IGERT Speaker] Cropolution Morrisville, NC	"Discovery of Novel Crop Protection Chemicals "	Thomas Eulgem
CEPCEB (Wednesday)	22 Leslie Sieburth Molecular Biology Program University of Utah	"Talking Turkey--the Roles of Long Distance Signals and mRNA Decapping in Regulation of Leaf Architecture"	Xuemei Chen
	24 No Seminar-Thanksgiving Break		
Dec '06			
CEPCEB (Friday)	1 Richard Vierstra Department of Genetics University of Wisconsin-Madison	"The Expanding Universe of Ubiquitin-Fold Proteins"	Jian-Kang Zhu
IGERT (Friday)	8 Ryan Julian Department of Chemistry University of California, Riverside	"Selective Noncovalent Adduct Protein Probing (SNAPP): Using ESI-MS to examine protein structure by specific noncovalent attachment of 18-crown-6"	Wenwan Zhong
	15 No Seminar-Finals Week		
	22 No Seminar-Holiday Break		
	29 No Seminar-Holiday Break		
January '07			
CEPCEB (Friday)	12 Erik Nielsen Donald Danforth Plant Science Center	"A role for Phosphoinositides in Polar Secretion during Root Hair Development"	Zhenbiao Yang
CEPCEB (Friday)	19 Nina Federoff The Huck Institutes of the Life Sciences Penn State University	"Heterotrimeric G Protein and Reactive Oxygen Species Signaling in the Arabidopsis ER Stress Response"	Xuemei Chen
IGERT (Friday)	26 Young-Tae Chang-[IGERT] New York University	"Facilitated Chemical Genetics Using Tagged Small Molecule Library"	Natasha Raikhel
February '07			
CEPCEB* (Friday) (Internal)	2 Bin Yu Botany and Plant Sciences	"Small RNAs in Arabidopsis: Biogenesis and Function"	Chen Lab
CEPCEB (Wednesday)	7 Paul Ahlquist Howard Hughes Medical Institute and Institute for Molecular Virology University of Wisconsin-Madison	"Viral RNA replication complex structure, assembly and function"	Shou-Wei Ding
CEPCEB (Friday)	9 Bernard O. Palsson University of California, San Diego	CEPCEB AWARD CEREMONY "The Genetic Basis for Adaptation in E. Coli "	Natasha Raikhel
CEPCEB (Friday)	16 William Lucas College of Biological Sciences University of California, Davis	"RNA and Protein Trafficking in the Phloem"	Shou-Wei Ding
Friday	23 NO SEMINAR SCHEDULED		
March '07			
CEPCEB (Friday)	2 Xiaoqiang Wang Department of Mathematics, Florida State University	Structures of Uridine Diphosphate Glycosyltransferases - Mechanism of Glycosylation of Plant Natural Products	Xuemei Chen
IGERT (Friday)	9 Jiayu Liao [IGERT] UCR Bioengineering Department	"The First Small Molecular Agonist for Class B GPCR"	Julia Serres Bailey-
(Friday)	16 NO SEMINAR SCHEDULED		

DATE	SPEAKER	TITLE	HOST
CEPCEB (Friday) 23	Ben Scheres Department of Biology Utrecht University	<i>"Root development: a numbers' game"</i>	Venu Reddy
April '07			
CEPCEB (Friday) 6	Thea Wilkins Agricultural Sciences & Natural Resources, Plant & Soil Sciences	<i>"Developing Cotton Fibers as a Single-celled Genomics Platform for Studying Plant Cell Morphogenesis"</i>	Natasha Raikhel
IGERT (Friday) 13	Alan Jones [IGERT] Dept. of Biology University of North Carolina, Chapel Hill	<i>"An Unusual Sugar Sensing Mechanism in Arabidopsis"</i>	Julia Bailey-Serres
CEPCEB* (Friday) (Internal) 20	NO SEMINAR SCHEDULED		
CEPCEB (Friday) 27	Arthur Grossman Carnegie Institution of Washington Stanford University	<i>"Metabolic Processes in Photosynthetic Organisms in the Hot Springs"</i>	Jian-Kang Zhu
May '07			
CEPCEB* (Friday) (Internal) 4	Yonghui Wu - Cancelled Computer Science and Engineering	<i>Cancelled- No seminar TBA</i>	Stefano Lonardi
IGERT (Friday) 11	Mary Wildermuth [IGERT] Department of Plant and Microbial Biology University of California, Berkeley	<i>"Integrated Approaches for Elucidating the Role of Salicylic Acid in Plant-Pathogen Interactions"</i>	Julia Bailey-Serres
CEPCEB** (Monday) 14	Natalia Dudareva Department of Horticulture & Landscape Architecture Purdue University	<i>"Plant Volatiles: A Journey into the Unknown"</i>	Natasha Raikhel
(Friday) 25	NO SEMINAR SCHEDULED		
June '07			
CEPCEB (Friday) 1	Jian Hua Plant Biology Cornell University	<i>"Plant defense modulated by genetic repressors and temperature"</i>	Xuemei Chen
IGERT (Friday) 8	Charlie Boone [IGERT] Terrence Donnelly Centre for Cellular and Biomolecular Research University of Toronto, Canada	<i>CANCELLED 06/01</i>	Sean Cutler
CEPCEB (Friday) 15	Elizabeth Haswell Division of Biology California Institute of Technology	<i>"Shape up or Ship out: Mechanoperception and Mechanosensitive Ion Channels in Arabidopsis"</i>	Xuemei Chen
(Friday) 22	No Seminar Scheduled		
CEPCEB (Friday) (Internal) 29	Harley Smith Botany & Plant Sciences University of California, Riverside	<i>"Specification of floral cell fate in Arabidopsis"</i>	Patricia Springer

LEGEND:

CEPCEB (BPS 252) Seminars: Special Topics on Botany
IGERT Seminars