

# THE CENTER

In 2002, Natasha Raikhel led the initiative at UC Riverside to form the Center for Plant Cell Biology (CEPCEB) in the established Institute for Integrative Genome Biology (IIGB) and to develop from scratch instrumentation cores to support the research endeavors of the Center and the broader campus community. It was the Center's vision to become a truly, multi-disciplinary unit that embraced "system-based" research - the melding of computational approaches and technological innovations with molecular and cellular biology. CEPCEB's interdisciplinary initiatives have reached researchers across campus and have brought together members of biological science, engineering, computing and chemistry departments. Consequentially, CEPCEB currently has a vibrant community of over 50 plant scientist who address fundamental questions of cell biology with an eye on translational research.

The Center for Plant Cell Biology Award Fund was established in 2002 to provide annual awards in recognition of research excellence in the areas of plant cell and molecular biology, genomics, bioengineering, and bioinformatics. The CEPCEB Award Fund annually sponsors awards at the postdoctoral, graduate student, undergraduate student, and high school student level.

A prominent scientist is invited to present at the CEPCEB Award Ceremony annually. This seminar, titled the Distinguished Noel T. Keen Lecture, is named after an eminent plant pathologist and one of the first supporters and members of the CEPCEB who brought considerable recognition to UC Riverside. CEPCEB is deeply grateful to Dr. Keen's widow, Diane, for generously establishing an endowment to help support this special lecture series. In memory of Neil Campbell, Visiting Scholar in the Botany & Plant Sciences department for 15 years, and his contribution of biology education and research, CEPCEB also started presenting in 2005 the Neil Campbell CEPCEB Undergraduate Award for Outstanding Research. The center is also indebted to Rochelle Campbell, Dr. Campbell's widow, for her ongoing generous support of undergraduate student research and education. Research excellence awardees and Distinguished Lecturers since the Center's inception are listed on the IIGB website.

Under CEPCEB's current leader, Julia Bailey-Serres, CEPCEB is inspired to transfer its excitement of plant cell biology to a new generation of scientist who are extending research at UCR around the world.

UNIVERSITY OF CALIFORNIA  
**UCRIVERSIDE** | Institute for Integrative  
Genome Biology

**Pioneering solutions for  
hunger, disease and  
environmental  
sustainability**

# 2016 FOURTEENTH ANNUAL

**CEPCEB**  
Center for Plant Cell Biology  
at UC Riverside

# AWARD SYMPOSIUM

**DISTINGUISHED NOEL T. KEEN LECTURER  
OTTOLENE LEYSER  
UNIVERSITY OF CAMBRIDGE**

**December 16, 2016  
10:30AM-5PM**

# PROGRAM

10:30 AM **REGISTRATION & CONTINENTAL BREAKFAST**

11:00 AM **WELCOME: Julia Bailey-Serres**, CEPCEB Director

Session Moderator: **Carolyn Rasmussen**, Assistant Professor

11:10 AM Lightning Talk: **Aditya Vaidya**, Post Doc Botany & Plant Sciences  
"Selective activation of PYR1/PYL1 receptors induces ABA-responsive genes in Arabidopsis thaliana"

11:20 AM Lightning Talk: **Mauricio Reynoso**, Post Doc; Botany & Plant Sciences  
"A window into the nucleus: Chromatin and nuclear transcriptome dynamics"

11:30 AM Research Talk: **Dan Koenig**, Assistant Professor Botany & Plant Sciences  
"Saving up for a rainy day: Ancient alleles and plant genome evolution"

11:50 AM Research Talk: **Arthur Jia**, Assistant Professor Botany & Plant Sciences  
"3andMe: Haplotype Determination Using Three Pollen Grains"

12:10 PM Lightning Talk: **Jinfeng Lu**, Post Doc Plant Pathology & Microbiology  
"Induction and suppression of antiviral RNA interference by influenza A virus in mammalian cells"

12:20 PM Lightning Talk: **Amancio J de Souza**, Post Doc Botany & Plant Sciences  
"Cracking the interorganellar communication codes"

12:30 PM – 1:30pm LUNCH

Session Moderator: **Dan Koenig**, Assistant Professor

1:30 PM Lightning Talk: **Ming Wang**, Graduate Student Plant Pathology & Microbiology  
"Bidirectional cross-kingdom RNAi and fungal uptake of external RNAs confer plant protection"

1:40 PM Research Talk: **Amy Litt**, Assistant Professor Botany & Plant Sciences  
"What makes a tomato a tomato: gene evolution in flower and fruit diversity"

2:00 PM Research Talk: **Dawn Nagel**, Assistant Professor Botany & Plant Sciences  
"Molecular Interactions between Temperature and the Plant Circadian Clock"

2:20 PM Lightning Talk: **Honghong Wu**, Post Doc Botany & Plant Sciences  
"Plant Nanobionic Protection from Abiotic Stress Enhances Photosynthesis"

2:30 PM Lightning Talk: **Yongjian Qiu** (Meng Chen lab), Assistant Project Scientist Botany & Plant Sciences  
"Thermosensing through Phytochromes in Arabidopsis"

2:40 PM - 3:00 PM COFFEE BREAK

**3:00 CEPCEB DONOR RECOGNITION & AWARD PRESENTATION**

Distinguished Noel T. Keen Lecture

3:30 PM **Ottoline Leyser**, Professor of Plant Development and Director of the Sainsbury Laboratory at the University of Cambridge  
"Feedback and feedforward in the bud activation switch"

4:30 PM CONCLUDING REMARKS: **Katie Dehesh**, IIGB Director

4:45 PM EVENING RECEPTION

# NOEL T. KEEN LECTURER

**Ottoline Leyser is Professor of Plant Development and Director of the Sainsbury Laboratory at the University of Cambridge. Her research uses the control of shoot branching in Arabidopsis as a model system to understand plant developmental plasticity and the role of plant hormones in integrating endogenous and environmental inputs into developmental regulation. The aim is to understand how local and systemic signalling mechanisms give rise to environmentally sensitive shoot system architectures, an endeavour that is increasingly dependent on computational modelling to understand the dynamic networks involved.**

**Ottoline received her BA (1986) and PhD (1990) in Genetics at the University of Cambridge. After a period of post-doctoral research at Indiana University, she returned to the UK and took up a Lectureship at the University of York (1994), where worked until moving to the new Sainsbury Laboratory, University of Cambridge, in 2011. She is a Fellow of the Royal Society and of the Leopoldina, a Member of EMBO and a Foreign Associate of the US National Academy of Sciences.**

