



中国科学院-英国约翰·英纳斯中心
植物与微生物科学双边研讨会



program

April 26-27, 2012
Shanghai, China

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Welcome Messages

Dear Honorable Participants:

On behalf of the organizing committee, it is our pleasure to have you attending CAS-JIC joint Symposium (**C**hinese **A**cademy of **S**ciences; **J**ohn **I**nnes **C**entre) in Shanghai, China from April 26-27, 2012, hosted by Chinese Academy of Sciences.

The theme of the Symposium will be included implementation and promotion of international cooperation and exchanges in the areas of plants and microbial genetics between CAS and JIC. About 50 internationally renowned experts from JIC, CAS and other research institutes in China in the field of plant developmental biology, genetics, epigenetics, crop science, microbial biology, plant physiology, and plant molecular breeding will give plenary and keynote lectures and symposia as well.

The Symposium will be held in Shanghai, the largest city in China. Shanghai is one of the largest metropolitan areas in the world, with over 20 million people. Located on China's central eastern coast just at the mouth of the Yangtze River, the city is administered as a municipality of the People's Republic of China with province-level status. We sincerely invite you to join the symposium and enjoy Shanghai's beauty and culture.

CAS-JIC Organizing Committee

Program at a glance

Date	April 25
Time\Venue	1st Floor Riverside Hall
18:30-onwards	Dinner

Plenary Lecture: 20 minutes

Date	April 26
Time\Venue	3rd Floor Meeting room 3C+3D
08:30-09:00	Opening Remarks
09:00-09:20	Photographing
09:20-10:20	Plenary Lecture
10:20-10:50	Tea Breaks
10:50-12:30	Plenary Lecture
12:30-14:00	Lunch
14:00-16:00	Plenary Lecture
16:00-18:00	Reception: Drinks & Discussion
Time\Venue	5th Floor Europe Hall
18:00-onwards	Banquet

Program at a glance

Plenary Lecture: 20 minutes

Date	April 27
Time\Venue	3rd Floor Meeting room 3C+3D
08:30-10:30	Plenary Lecture
10:30-11:00	Tea Break
11:00-12:40	Plenary Lecture
12:40-14:00	Lunch
14:00-16:00	Plenary Lecture
16:00-16:30	Closing
16:30-18:30	Steering Committee Meeting
Time\Venue	Seagull Place
18:30-20:00	Dinner
20:00-21:30	A tour of the Huangpu River on the boat

Scientific Program

April 26 (Thursday)

3rd Floor Meeting room 3C+3D

08:30-09:00 Opening Remarks

Chair: *Bin Han*

Yonglong Lu (Director of Bureau of International Co-operation, CAS)

Zhibin Zhang (Director of Bureau of Biological Sciences and Technology, CAS)

Dale Sanders (Director of the John Innes Centre): Opening speeches
Officials from British Embassy/RCUK

09:00-09:20 Photographing

09:20-10:20 Session 1: Introduction of JIC and CAS-Institutes

Chair: *Giles Oldroyd*

09:20-9:50 Research Progresses in John Innes Centre

Dale Sanders

9:50-10:20 Research Progresses in CAS-Institutes

Ziyuan Duan

10:20-10:50 Tea Breaks

10:50-12:30 Session 2: Plant Development and response to the environment

Chair: *Hongwei Xue*

10:50-11:10 Genetics and cell biology of meristem and floral organ development

Robert Sablowski (John Innes Centre)

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- 11:10-11:30 Flowering and vernalization
Caroline Dean (John Innes Centre)
- 11:30-11:50 Flowering time regulation mediated by protein arginine methylation in Arabidopsis
Xiaofeng Cao (Institute of Genetics and Developmental Biology, CAS)
- 11:50-12:10 Towards Molecular Design of Rice Plant Architecture
Yonghong Wang (Institute of Genetics and Developmental Biology, CAS)
- 12:10-12:30 Research Progresses in Shanghai Institute of Plant Physiology and Ecology
Hongwei Xue (Shanghai Institute of Plant Physiology and Ecology, CAS)
- 12:30-14:00 Lunch**
- 14:00-16:00 Session 3: Genomics and gene discovery in crops**
Chair: Anne Osbourn
- 14:00-14:20 Analysis of the bread wheat genome using comparative whole genome shotgun sequencing
Mike Bevan (John Innes Centre)
- 14:20-14:40 Genetics of yield and quality in wheat
Cristobal Uauy (John Innes Centre)
- 14:40-15:00 A story of sweetness: when divergent interests lead to mutual benefits
Trevor Wang (John Innes Centre)

15:00-15:20 Heterosis in hybrid rice breeding: what does it really mean?

Qifa Zhang (Huazhong Agricultural University)

15:20-15:40 Genome-wide association study of rice complex traits

Bin Han (National Center for Gene Research, SIBS, CAS)

15:40-16:00 Genetic control of the panicle architecture and grain yield in rice

Xiangdong Fu (Institute of Genetics and Developmental Biology, CAS)

16:00-18:00 Reception: Drinks & Discussion

18:00- Banquet

April 27 (Friday)

3rd Floor Meeting room 3C+3D

08:30-10:30 Session 4: Plant and bacterial natural products

Chair: Kang Chong

08:30-08:50 Plant-derived natural products – Synthesis, function and mechanisms underpinning metabolic diversification

Anne Osbourne (John Innes Centre)

08:50-09:10 Understanding and Engineering Plant-Derived Natural Product Pathways

Sarah O'Connor (John Innes Centre)

09:10-09:30 Genome mining for antibiotics

Merv Bibb (John Innes Centre)

09:30-09:50 How colour can illuminate the path to understanding the genetics and improvement of Citrus

Cathie Martin (John Innes Centre)

09:50-10:10 Sesquiterpene Synthases of *Artemisia annua*: Gene Regulation and Protein Engineering

Xiaoya Chen (Shanghai Institutes for Biological Sciences (SIBS), CAS)

10:10-10:30 Synthetic access toward the diverse glycosylated metabolites of plants and bacteria

Biao Yu (Shanghai Institute of Organic Chemistry, CAS)

10:30-11:00 Tea Breaks

11:00-12:40 Session 5: Plant Biotic interactions

Chair: Mike Bevan

11:00-11:20 Signalling pathways that establish symbiotic associations in plants

Giles Oldroyd (John Innes Centre)

11:20-11:40 Dissecting plant/pathogen interactions for durable crop disease resistance

Jonathan Jones (The Sainsbury Laboratory)

11:40-12:00 The molecular basis of plant-insect interactions

Saskia Hogenhout (John Innes Centre)

12:00-12:20 From rhizosphere to nodule senescence, the developmental programme of root nodule bacteria

Phil Poole (John Innes Centre)

12:20-12:40 Rice MtN3/saliva gene family is an important target of *Xanthomonas oryzae* pv. *oryzae*

Shiping Wang (Huazhong Agricultural University)

12:40-14:00 Lunch

14:00-16:00 Session 6: Enzymology and protein function

Chair: Merv Bibb

14:00-14:20 Understanding and exploiting polysaccharide biochemistry

Rob Field (John Innes Centre)

14:20-14:40 Control of sulfur metabolism in plants

Stan Kopriva (John Innes Centre)

14:40-15:00 DNA topoisomerases: structure, mechanism and antibiotic targetin

Tony Maxwell (John Innes Centre)

15:00-15:20 Environmental control of molecular machines that activate bacterial transcription

Ray Dixon (John Innes Centre)

15:20-15:40 Reviving the Antibiotics Legend: Path From Natural Screening to Synthetic Biology

Zixin Deng (Shanghai Jiaotong University)

15:40-16:00 SCF^{SLF}-Mediated Cytosolic Degradation of S-RNase Controls Cross-Pollen Compatibility in S-RNase-Based Self-Incompatibility

Yongbiao Xue (Institute of Genetics and Developmental Biology, CAS)

16:00-16:30 Closing

Closing remarks: **Dale Sanders & Yongbiao Xue**

16:30-18:30 Steering Committee Meeting

18:30-20:00 Dinner

20:00-21:30 Option: A tour of the Huangpu River on the boat

Congress information

Congress Date

Thursday to Friday, April 26-27, 2012

Congress Venue

The Oriental Riverside Hotel of Shanghai International Convention Center

Website: <http://www.shsicc.com>

Address: 2727, Riverside Avenue, Pudong, Shanghai (200120)

Tel: (86-21) 50370000

Fax: (86-21) 50370999

Email: hotel@shsicc.com



Open Hours

Registration	April 25	Wednesday	14:00-21:00	Hotel front desk
	April 26	Thursday	07:30-11:00	Meeting room 3C+3D

Name Badge

Participants are requested to wear their name badges during all the symposium activities and social events. All staffs will have the right to refuse entry to any session without a proper name badge. If there is any typo in your badge, please go to the registration counter for assistance.

Language

The official language of the symposium is English, which will be used in all presentations.

Breakfast /Dinner (April 25th) /Lunch

Breakfast, Lunch, and dinner will be served in Lunch area, 1st Floor Riverside Hall.

Banquet (April 26th)

Banquet will be served in 5th Floor Europe Hall.

Dinner (April 27th)

Dinner will be served in Seagull Place.

Sessions/Changes

Please make sure to be in the session room on time as all sessions will begin per scheduled. The organizing committee reserves the right to adjust or change the program.

Congress Policy

- Smoking is prohibited at all times in the conference rooms and the entire building.
- Please switch your mobile phones off or to vibration mode during all sessions.

Instructions for Presenters

Oral Presentation

Presentation Time

Speaker	Presentation Time
Plenary Lecture	20 minutes

*Each lecture includes speech and discussion

Equipment:

- Each session room is equipped with a Windows PC, a projector, a screen, a microphones and a laser pointer.
- The operating system is Windows 7, and Office 2010.
- The computers in the session room will support Windows PC.

PowerPoint Presenters:

- Please use standard fonts.
- Please name your file as “Presentation category and number (Speaker’s Name)”, e.g., “Session1-1st (John Smith)”.
- If your presentation contains linked audio or movie files, please save the files in the same folder.
- Your presentation file can be submitted on the day before your speech to avoid delay.

General Information

Welcome to Shanghai

Shanghai is the largest city by population of the People's Republic of China (PRC) and the largest city proper in the world. It is one of the four province-level municipalities of the PRC, with a total population of over 23 million as of 2010. It is a global city, with influence in commerce, culture, finance, media, fashion, technology and transport. It is a major financial center and the busiest container port in the world. Located in the Yangtze River Delta in eastern China, Shanghai sits at the mouth of the Yangtze River in the middle portion of the Chinese coast. The municipality borders Jiangsu and Zhejiang Provinces to the west, and is bounded to the east by the East China Sea.

Useful Phone Numbers

Emergency (polices)		110
Emergency (ambulance)		120
Weather		12121
Taxi (JinJiang Company)		96961
Taxi (QiangSheng Company)		62580000
SHANGHAI Pudong International Airport	Passenger Terminal II	96990
Shanghai Hongqiao International Airport	Passenger Terminal II	96990

Organizer

Chinese Academy of Sciences

Bureau of Biological Sciences and Technology, CAS

Bureau of International Co-operation, CAS

Shanghai Institutes for Biological Sciences, CAS

Organizing Committee

Chairperson

Bin Han

(Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences)

Dale Sanders

(John Innes Centre, England)

Organizing Committee

Giles Oldroyd

(John Innes Centre, England)

Alan Giles

(John Innes Centre, England)

Anne Osbourn

(John Innes Centre, England)

Mike Bevan

(John Innes Centre, England)

Jiayang Li

(Chinese Academy of Sciences; Chinese Academy of Agricultural Sciences)

Yaping Zhang

(Chinese Academy of Sciences)

Zhibin Zhang

(Chinese Academy of Sciences)

Yonglong Lu

(Chinese Academy of Sciences)

Yongbio Xue

(Chinese Academy of Sciences)

Xiaoya Chen

(Chinese Academy of Sciences)

Hongwei Xue



(Chinese Academy of Sciences)



Ziyuan Duan



(Chinese Academy of Sciences)



Principle Investigators Information



John Innes Centre [JIC]



Name	Dale Sanders	E-mail	Dale.sanders@jic.ac.uk
	Selected publications		
	<p>A secretory pathway-localised cation diffusion facilitator confers plant manganese tolerance. Proc. Natl. Acad. Sci. USA 2007, 104, 8532-8537.</p> <p>The vacuolar Ca²⁺-activated channel TPC1 regulates germination and stomatal movement. Nature 2005, 434, 404-408.</p>		
Position	Director		
Expertise	mechanisms for the transport of chemical elements across cell membranes in plants		
Name	Giles Oldroyd	E-mail	Giles.oldroyd@jic.ac.uk
	Selected publications		
	<p>Nuclear membranes control symbiotic calcium signaling of legumes. Proc. Natl. Acad. Sci. USA 2011, 108, 14348-14353.</p> <p>The Medicago genome provides insight into the evolution of rhizobial symbioses. Nature 2011, 480, 520-524</p>		
Position	ISP Programme Leader		
Expertise	legume/rhizobial symbiosis with a focus on Nod factor perception and signal transduction in the plant		



Name	Mike Bevan	E-mail	michael.bevan@jic.ac.uk
	Selected publications		
	Genome sequencing and analysis of the model grass <i>Brachypodium distachyon</i> . Nature 2010, 463, 763-768.		
	Control of final seed and organ size by the DA1 gene family in <i>Arabidopsis thaliana</i> . Genes & Development 2008, 22, 1331-1336.		
Position	ISP Programme Leader		
Expertise	Wheat genomics, growth control in <i>Arabidopsis</i>		
Name	Anne Osbourn	E-mail	Anne.osbourn@jic.ac.uk
	Selected publications		
	Formation of plant metabolic gene clusters within dynamic chromosomal regions. Proc. Natl. Acad. Sci. USA 2011, 108, 16116-16121.		
	Investigation of the potential for triterpene synthesis in rice through genome mining and metabolic engineering New Phytologist 2011, 191, 432-448.		
Position	ISP Programme Leader		
Expertise	understanding the function and synthesis of plant-derived natural products and the origins of metabolic diversity		



Name	Mervyn Bibb	E-mail	mervyn.bibb@jic.ac.uk
	Selected publications		
	<p>Microbisporicin gene cluster reveals unusual features of lantibiotic biosynthesis in actinomycetes. Proc. Natl. Acad. Sci. USA 2010, 107, 13461-13466.</p> <p>Genome mining and genetic analysis of cypemycin biosynthesis reveal an unusual class of posttranslationally modified peptides. Proc. Natl. Acad. Sci. USA 2010, 107, 16297-16302.</p>		
Position	Project Leader		
Expertise	Biosynthesis and regulation of actinomycete natural products, particularly lantibiotics		
Name	Caroline Dean	E-mail	caroline.dean@jic.ac.uk
	Selected publications		
	<p>RNA 3' processing functions of Arabidopsis FCA and FPA limit intergenic transcription. Proc. Natl. Acad. Sci. USA 2011, 108, 8508-8513.</p> <p>Targeted 3' processing of antisense transcripts triggers Arabidopsis FLC chromatin silencing. Science 2010, 327, 94-97.</p>		
Position	Project Leader		
Expertise	molecular control of flowering time, focusing specifically on the acceleration of flowering by vernalization		



Name	Ray Dixon	E-mail	ray.dixon@jic.ac.uk
	Selected publications		
	<p>Substitutions in the redox-sensing PAS domain of the NifL regulatory protein define an inter-subunit pathway for redox signal transmission. Molecular Microbiology 2011, 82, 222-35.</p> <p>A non-haem iron centre in the transcription factor NorR senses nitric oxide Nature 2005, 437, 769-772.</p>		
Position	Head of Department		
Expertise	signal transduction cascades that regulate nitrogen fixation genes in response to oxygen, carbon and fixed nitrogen status		
Name	Rob Field	E-mail	rob.field@jic.ac.uk
	Selected publications		
	<p>Glycobiology: Challenging reaction equilibria. Nature Chemical Biology 2011, 7, 658-9.</p> <p>Surface plasmon resonance imaging of glycoarrays identifies novel and unnatural carbohydrate-based ligands for potential ricin sensor development. Chemical Science 2011, 2, 1952-1959</p>		
Position	Project Leader		
Expertise	organic synthesis to mechanistic enzymology and chemical biology		


Name	Alan Giles	E-mail	alan.giles@jic.ac.uk
	Selected publications		
	<p>Alan has responsibility for developing commercial enterprise at the Norwich Research Park. He is leading the capital infrastructure project to develop the commercial side of the Norwich Research Park, from a £26m Government science investment that was recently awarded. He is also responsible for the operation of the 20,000 sq ft Norwich Biocubator and 40,000 sq ft NRP Innovation Centre, which house mainly life science businesses. Alan has been based at the JIC for five years, formerly as Head of Operations, as well as contributing to the initiation of The Genome Analysis Centre (TGAC), a new institute located on the JIC site.</p>		
Position	Project Director – Norwich Research Park (NRP)		
Name	Saskia Hogenhout	E-mail	saskia.hogenhout@jic.ac.uk
	Selected publications		
	<p>Phytoplasma protein effector SAP11 enhances insect vector reproduction by manipulating plant development and defense hormone biosynthesis. Proc. Natl. Acad. Sci. USA 2011, 108, E1254-1263.</p> <p>Phytoplasma effector SAP54 induces indeterminate leaf-like flower development in Arabidopsis plants. Plant Physiology 2011, 157, 831-41.</p>		
Position	Project Leader		
Expertise	Molecular-Plant-Microbe-Insect Interactions		

Name	Jonathan Jones	E-mail	jonathan.jones@sainsbury-laboratory.ac.uk
	Selected publications		
	<p>Signatures of adaptation to obligate biotrophy in the <i>Hyaloperonospora arabidopsidis</i> genome. Science 2010, 330, 1549-1551.</p> <p>Gene Gain and Loss during Evolution of Obligate Parasitism in the White Rust Pathogen of <i>Arabidopsis thaliana</i> (2011) Kemen E, A Gardiner, T Schultz-Larsen, A C. Kemen, A L. Balmuth A Robert-Seilaniantz, K Bailey, E Holub, D J. Studholme, D MacLean, J. D. G. Jones PLOS Biology vol. 9 (7) pp. e1001094.</p>		
Position	TSL Project Leader		
Expertise	molecular and genetic approaches to study disease resistance in plants		
Name	Stan Kopriva	E-mail	stanislav.kopriva@jic.ac.uk
	Selected publications		
	<p>Natural variation for sulfate content in <i>Arabidopsis</i> is highly controlled by adenosine 5'-phosphosulfate reductase. Nature Genetics 2006 39, 896-900</p> <p>Control of sulfur partitioning between primary and secondary metabolism. Plant Journal 2011 65, 96-105.</p>		
Position	Project Leader		
Expertise	Plant mineral nutrition		

Name	Cathie Martin	E-mail	cathie.martin@jic.ac.uk
	Selected publications		
	Enrichment of tomato fruit with health-promoting anthocyanins by expression of select transcription factors. Nature Biotechnology 2008, 26, 1301-1308.		
	AtMYB12 regulates caffeoyl quinic acid and flavonol synthesis in tomato: expression in fruit results in very high levels of both types of polyphenol. Plant Journal 2008, 56, 316-326.		
Position	Project Leader		
Expertise	Metabolic engineering in plants		
Name	Tony Maxwell	E-mail	tony.maxwell@jic.ac.uk
	Selected publications		
	A crystal structure of the bifunctional antibiotic, simocyclinone D8, bound to DNA gyrase. Science 2009, 326, 1415-8.		
	The ancestral role of ATP hydrolysis in type II topoisomerases: prevention of DNA double-strand breaks. Nucleic Acids Res. 2011, 39, 6327-39.		
Position	Head of Department		
Expertise	DNA topoisomerases in bacteria and plants: mechanism and drug-targeting		



Name	Sarah O'Connor	E-mail	Sarah.oconnor@jic.ac.uk
	Selected publications		
	<p>Integrating carbon-halogen bond formation into medicinal plant metabolism. <i>Nature</i> 2010, 468, 461-464.</p> <p>A homolog of tocopherol C- methyltransferases catalyzes N-methylation in anticancer alkaloid biosynthesis. <i>Proc. Natl. Acad. Sci. USA</i> 2010, 107, 18793-18798.</p>		
Position	Project Leader		
Expertise	elucidate, understand, and engineer the metabolic pathways from plant compounds		
Name	Phil Poole	E-mail	philip.poole@jic.ac.uk
	Selected publications		
	<p>Adaptation of <i>Rhizobium leguminosarum</i> to pea, alfalfa and sugar beet rhizospheres investigated by comparative transcriptomics. Genome Biol. (2011) 12:R106</p> <p>Legumes regulate <i>Rhizobium</i> bacteroid development and persistence by the supply of branched-chain amino acids. Proc. Natl. Acad. Sci. USA 2009, 106, 12477-12482.</p>		
Position	Project Leader		
Expertise	physiology and genetics of root nodule and rhizosphere/soil bacteria		



Name	Robert Sablowski	E-mail	robert.sablowski@jic.ac.uk
	Selected publications		
	<p>The same regulatory point mutation changed seed dispersal structures in evolution and domestication. Current Biology 2011, 21, 1215-1219.</p> <p>Hypersensitivity to DNA damage in plant stem cell niches. Proc. Natl. Acad. Sci. USA 2009, 106, 20984-20988.</p>		
Position	Head of Department		
Expertise	Genetics and cell biology of meristem and floral organ development		
Name	Cristobal Uauy	E-mail	cristobal.uauy@jic.ac.uk
	Selected publications		
	<p>Combining SNP discovery from next-generation sequencing data with bulked segregant analysis (BSA) to fine-map genes in polyploid wheat. BMC Plant Biology 2012, 12, 14.</p> <p>A NAC Gene regulating senescence improves grain protein, zinc, and iron content in wheat. Science 2006, 314, 1298-301.</p>		
Position	Project Leader		
Expertise	Wheat molecular genetics		



Name	Trevor Wang	E-mail	trevor.wang@jic.ac.uk
	Selected publications		
	<p>Genetic screening identifies cyanogenesis-deficient mutants of <i>Lotus japonicus</i> and reveals enzymatic specificity in hydroxynitrile glucoside metabolism. Plant Cell 2010, 22, 1605-19.</p> <p>A suite of <i>Lotus japonicus</i> starch mutants reveals both conserved and novel features of starch metabolism. Plant Physiology 2010, 154, 643-655.</p>		
Position	Project Leader		
Expertise	Starch, sucrose and secondary metabolism in legumes, especially during nodulation		



Chinese Academy of Sciences [CAS] (PIs list)

Name	Jiayang LI	E-mail	jyli@genetics.ac.cn
	Selected publications		
	Regulation of OsSPL14 by OsmiR156 defines ideal plant architecture in rice. Nature Genetics 2010, 42, 541-544.		
	Allelic diversities in rice starch biosynthesis lead to a diverse array of rice eating and cooking qualities. Proc Natl Acad Sci USA 2009, 106, 21760–21765.		
	Control of tillering in rice. <i>Nature</i> 2003, 422, 618-621.		
Position	Vice Minister of Agriculture of China, President of Chinese Academy of Agricultural Sciences; CAS member (Academician)		
Address	Institute of Genetics and Developmental Biology, Chinese Academy of Sciences		
Expertise	Molecular mechanisms underlying plant architecture and grain quality		
Name	Zhihong XU	E-mail	xuzh@pku.edu.cn
	Selected publications		
	Characterization of an ethylene inducible, calcium dependent nuclease that differentially expressed in cucumber flower development. New Phytologist 2011, 192:590-600.		
	Why is ethylene involved in selective promotion of female flower development in cucumber? Plant Signaling & Behavior 2010, 5, 1-5.		
Position	CAS member (Academician)		
Address	Shanghai Institutes for Biological Sciences (SIBS), CAS ; Peking University		
Expertise	the regulatory mechanisms of PLANT ORGAN-FORMATION		



Name	Xiaoya CHEN	E-mail	xychen@sibs.ac.cn
	Selected publications		
	Temporal Control of Trichome Distribution by MicroRNA156-Targeted SPL Genes in Arabidopsis thaliana. Plant Cell 2010, 22, 2322-2335..		
	Silencing a cotton bollworm P450 monooxygenase gene by plant-mediated RNAi impairs larval tolerance of gossypol. Nature Biotechnology 2007, 25, 1307-1313.		
Position	President of SIBS, CAS; CAS member (Academician)		
Address	Shanghai Institutes for Biological Sciences (SIBS), CAS		
Expertise	Plant terpene biosynthesis and in particular the gossypol pathway, plant-insect interactions, trichome and cotton fiber development		
Name	Bin HAN	E-mail	bhan@ncgr.ac.cn
	Selected publications		
	Genome-wide association study of flowering time and grain yield traits in a worldwide collection of rice germplasm. Nature Genetics 2012, 44, 32-39.		
	Genome-wide association studies of 14 agronomic traits in rice landraces. Nature Genetics 2010, 42, 961-967.		
	Function annotation of the rice transcriptome at single-nucleotide resolution by RNA-seq. Genome Research 2010, 20, 1238-49.		
Position	Deputy director of SIBS, CAS; Director of NCGR, SIBS, CAS		
Address	National Center for Gene Research, SIBS, CAS		
Expertise	Genome-wide association study of rice complex traits and genome approach to study rice domestication processes		



Name	Yongbiao XUE	E-mail	ybxue@genetics.ac.cn
	Selected publications		
	<p>The SKP1-like protein SSK1 is required for cross-pollen compatibility in S-RNase-based self-incompatibility. Plant J. 2010, 62:52-63.</p> <p>Roles of proteolysis in plant self-incompatibility. Ann. Rev. Plant Biol. 2009, 60:21-42.</p> <p>The F-box protein AhSLF-S2 controls the pollen function of S-RNase-based self-incompatibility. Plant Cell 2004, 16:2307-2322.</p>		
Position	Director of Institute of Genetics and Developmental Biology		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Molecular and Cellular Mechanisms of S-RNase-Based Self-Incompatibility		
Name	Hongwei XUE	E-mail	hwxue@sibs.ac.cn
	Selected publications		
	<p>Signals and mechanisms affecting vesicular trafficking during root growth. Current Opinion in Plant Biology 2011, 14, 571-579.</p> <p>Arabidopsis PLDζ2 regulates vesicle trafficking and is required for auxin response. Plant Cell 2007, 19, 281-295.</p> <p>Brassinosteroids stimulate plant tropisms through modulation of polar auxin transport in Brassica and Arabidopsis. Plant Cell 2005, 17, 2738-2753.</p>		
Position	Director of Institute of Plant Physiology and Ecology		
Address	Institute of Plant Physiology and Ecology, SIBS, CAS		
Expertise	Functional mechanism and cross-talk of plant hormones; seed/endosperm development		

Name	Lijun BI	E-mail	blj@sun5.ibp.ac.cn
	Selected publications		
	<p>The dimer state of GyrB of <i>Mycobacterium tuberculosis</i> is an active form: implications for the initial complex assembly and processive strand passage. Nucleic Acid Research 2011, 39, 8488-8502.</p> <p>Crystal structure of DNA gyrase B' domain from <i>mycobacterium tuberculosis</i> sheds lights on the mechanism for T-segment navigation. Nucleic Acids Research 2009, 37:5908-5916.</p>		
Position	Professor		
Address	Institute of Biophysics, CAS		
Expertise	DNA repair system; DNA repair and drug-resistance of MTB; Non-coding RNA and DNA repair		
Name	Xiaofeng CAO	E-mail	xfcao@genetics.ac.cn
	Selected publications		
	<p><i>Arabidopsis</i> REF6 is a histone H3 lysine 27 demethylase. Nature Genetics 2011, 43, 715-719.</p> <p>Arginine methylation mediated by the <i>Arabidopsis</i> homolog of PRMT5 is essential for proper pre-mRNA splicing. Proc. Natl. Acad. Sci. USA 2010, 107, 19114-19119.</p> <p><i>Oryza sativa</i> Dicer-like4 Reveals a Key Role for Small Interfering RNA Silencing in Plant Development. Plant Cell 2007, 19, 2705-2718.</p>		
Position	Director Assistant		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Epigenetic mechanism of plant development and genome organization		



Name	Kang CHONG	E-mail	chongk@ibcas.ac.cn
	Selected publications		
	<p>Mutation of Rice BC12/GDD1, Which Encodes a Kinesin-Like Protein That Binds to a GA Biosynthesis Gene Promoter, Leads to Dwarfism with Impaired Cell Elongation. Plant Cell 2011, 23, 628-640.</p> <p>OsGSR1 is involved in cross-talk between gibberellins and brassinosteroids in rice. Plant Journal 2009, 57, 498-510.</p>		
Position	Deputy director of Institute of Botany		
Address	Institute of Botany, CAS		
Expertise	Functional genomics of organogenesis and development in rice; Plant response mechanism to cold; Molecular mechanism of vernalization in wheat		
Name	Chengcai CHU	E-mail	ccchu@genetics.ac.cn
	Selected publications		
	<p>A rice plastidial nucleotide sugar epimerase is involved in galactolipid biosynthesis and improves photosynthetic efficiency. PLoS Genet. 2011, 7, e1002196.</p> <p>LEAF TIP NECROSIS1 plays a pivotal role in regulation of multiple phosphate starvation responses in rice. Plant Physiol. 2011, 156, 1101-1115.</p>		
Position	Professor		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Rice functional genomics and Agrobiotechnology		

Name	Xiangdong FU	E-mail	xdfu@genetics.ac.cn
	Selected publications		
	An updated GA signaling ‘Relief of Repression’ regulatory model. Molecular Plant 2011, 4, 601-606.		
	Natural variation at the DEP1 locus enhances grain yield in rice. Nature Genetics 2009, 41, 494-497.		
	Phosphate-starvation root architecture and anthocyanin-accumulation responses are modulated by the GA-DELLA signaling pathway in Arabidopsis. Plant Physiology 2007, 145, 1460-1470.		
Position	Group Leader		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Genetic control of plant growth and architecture		
Name	Zuhua HE	E-mail	zhhe@sibs.ac.cn
	Selected publications		
	Control of rice grain-filling and yield by a gene with a potential signature of domestication. Nature Genetics 2008, 40, 1370-1374.		
	ELONGATED UPPERMOST INTERNODE encodes a cytochrome P450 monooxygenase that epoxidizes gibberellins in a novel deactivation reaction in rice. Plant Cell 2006, 18, 442-456.		
Position	Group Leader		
Address	Institute of Plant Physiology and Ecology, SIBS, CAS		
Expertise	Rice functional genomics, mechanism and application of plant disease resistance		

Name	Yunhai LI	E-mail	yhli@genetics.ac.cn
	Selected publications		
	Maternal control of seed size by EOD3/CYP78A6 in <i>Arabidopsis thaliana</i> . Plant Journal 2012.		
	Control of final organ size by Mediator complex subunit 25 in <i>Arabidopsis thaliana</i> . Development 2011, 138, 4545-4554.		
	Control of seed and organ size by the DA1 gene family in <i>Arabidopsis thaliana</i> . Genes & Development 2008, 22, 1331-1336.		
Position	Group Leader		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Mechanisms of seed and organ size control		
Name	Chun-Ming LIU	E-mail	cmliu@ibcas.ac.cn
	Selected publications		
	Contributions of individual amino acid residues to the endogenous CLV3 function in shoot apical meristem maintenance in <i>Arabidopsis</i> . Molecular Plant 2012, in press.		
	Expression and functional analyses of EXO70 genes in <i>Arabidopsis</i> implicate their roles in regulating cell type-specific exocytosis. Plant Physiology 2010, 154, 1819-1830.		
	The 14-Amino acid CLV3, CLE19 and CLE40 peptides trigger consumption of the root meristem in <i>Arabidopsis</i> through a CLAVATA2-dependent pathway. Plant Cell 2005, 17, 2542-2553.		
Position	Director for the Key Laboratory		
Address	Institute of Botany, CAS		
Expertise	Plant Embryogenesis and Endosperm Development		

Name	Wen LIU	E-mail	wliu@mail.sioc.ac.cn
	Selected publications		
	Radical	Mediated	Enzymatic
	Carbon	Chain	
	Fragmentation-Recombination. Nat. Chem. Biol. 2011, 7, 154-160. Transcriptome Mining of Active Biosynthetic Pathways and Their Associated Products in Streptomyces flaveolus. Angew. Chem. Int. Ed. 2011, 50, 9651-9654. Thiostrepton Maturation Involving a Deesterification-Amidation Way to Process the C-Terminally Methylated Peptide Backbone. J. Am. Chem. Soc. 2011, 132, 2852-2855.		
Position	Project leader		
Address	Shanghai Institute of Organic Chemistry, CAS		
Expertise	Natural Product Biosynthesis		
Name	Xiaoquan QI	E-mail	xqi@ibcas.ac.cn
	Selected publications		
	Divergent evolution of oxidosqualene cyclases in plants. New Phytologist 2012, 193, In press.		
	Genes encoding hub and bottleneck enzymes of the Arabidopsis metabolic network preferentially retain homeologs through whole genome duplication. BMC evolutionary biology 2010, 10, 145.		
	The phenotypic expression of QTLs for partial resistance to barley leaf rust during plant development. TAG 2010, 121, 857-864.		
Position	Group Leader		
Address	Institute of Botany, CAS		
Expertise	Plant secondary metabolism and durable disease resistance		



Name	Qian-Hua SHEN	E-mail	qhshen@genetics.ac.cn
	Selected publications		
	<p>Coiled-Coil Domain-Dependent Homodimerization of Intracellular Barley Immune Receptors Defines a Minimal Functional Module for Triggering Cell Death. Cell Host & Microbe 2011, 9, 187-199.</p> <p>Nuclear activity of MLA immune receptors links isolate-specific and basal disease-resistance responses. Science 2007, 315, 1098 -1103.</p>		
Position	Group Leader		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Molecular plant-microbe interactions, disease resistances mediated by NB-LRR proteins		
Name	Huarong TAN	E-mail	tanhr@im.ac.cn
	Selected publications		
	<p>Hybrid antibiotics with the nikkomycin nucleoside and polyoxin peptidyl moieties. Metab Eng., 2011, 13, 336-44.</p> <p>PoLY, a transcriptional regulator with ATPase activity, directly activates transcription of poLR in polyoxin biosynthesis in <i>Streptomyces cacaoi</i>. Mol Microbiol., 2010, 75, 349-364.</p> <p>Autoregulation of antibiotic biosynthesis by binding of the end product to an atypical response regulator. Proc. Natl. Acad. Sci. USA., 106, 2009, 8617-8622.</p>		
Position	Group Leader		
Address	Institute of Microbiology, CAS		
Expertise	Molecular Regulation and Biosynthesis of Antibiotic Production in <i>Streptomyces</i>		

Name	Yonghong WANG	E-mail	yhwang@genetics.ac.cn
	Selected publications		
	The BUD2 mutation affects plant architecture through altering response to cytokinin and auxin in Arabidopsis. Cell Res 2010, 20:576-586.		
	DWARF27, an iron-containing protein required for the biosynthesis of strigolactones, regulates rice tiller bud outgrowth. Plant Cell 2009, 21: 1512-1525.		
	Short panicle1 encodes a putative PTR transporter and determines rice panicle size. Plant J 2009, 58: 592-605.		
Position	Professor		
Address	Institute of Genetics and Developmental Biology, CAS		
Expertise	Molecular basis of plant architecture		
Name	Biao YU	E-mail	byu@mail.sioc.ac.cn
	Selected publications		
	Total synthesis of landomycin A, a potent antitumor angucycline antibiotic. J. Am. Chem. Soc. 2011, 133, 12433-12435.		
	Total synthesis and structural revision of TMG-chitotriomycin, a specific inhibitor of insect and fungal b-N-acetylglucosaminidases. J. Am. Chem. Soc. 2009, 131, 12076-12077.		
	Total synthesis of Lobatoside E, a potent antitumor cyclic triterpene saponin. J. Am. Chem. Soc. 2008, 130, 5872-5873.		
Position	Vice director of Shanghai Institute of Organic Chemistry		
Address	Shanghai Institute of Organic Chemistry, CAS		
Expertise	Total synthesis, synthetic methodology, and chemical biology of biologically significant oligosaccharides, glycoconjugates		

Chinese Academy of Sciences [CAS] (Officers)



Name	Yaping Zhang	E-mail	zhangyp@mail.kiz.ac.cn
	Position	Vice president of Chinese Academy of Sciences; CAS member (Academician)	
Name	Yonglong LU	E-mail	yllu@rcees.ac.cn
	Position	Director of Bureau of International Co-operation, Chinese Academy of Sciences	
Name	Zhibin Zhang	E-mail	zhangzb@ioz.ac.cn
	Position	Director of Bureau of Biological Sciences and Technology, Chinese Academy of Sciences	
Name	Ziyuan Duan	Phone	86-10-68597501
	Position	Office director of Bureau of International Co-operation, Chinese Academy of Sciences	

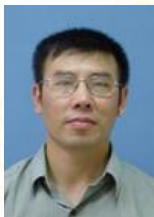

Other universities/institutes in China (former JIC visiting scholar or students)



Name	Qifa ZHANG	E-mail	qifazh@mail.hzau.edu.cn
	Selected publications		
	Natural variation in GS5 plays an important role in regulating grain size and yield in rice. Nat Genet , 2011, 43, 1266-1269..		
	Dynamic programming procedure for searching optimal models to estimate substitution rates based on the maximum-likelihood method. Proc Natl Acad Sci USA , 2011, 108:7860-7865.		
Position	Professor, director, CAS member (Academician)		
Address	Huazhong Agricultural University		
Expertise	Rice functional genomics, rice biotechnology, green super rice, biological basis of heterosis		
Name	Zixin DENG	E-mail	zxdeng@sjtu.edu.cn
	Selected publications		
	DNA phosphorothioation is widespread and quantized in bacterial genomes. Proc Natl Acad Sci U S A . 2011,		
	Identification and characterization of the pyridomycin biosynthetic gene cluster of Streptomyces pyridomyceticus NRRL B-2517. J Biol Chem . 2011,		
Position	Dean, CAS member (Academician)		
Address	Biotechnology Shanghai Jiaotong University		
Expertise	Biosynthesis and engineering of microbial secondary metabolites; DNA sulfur modification		

Name	Ji-Liang TANG	E-mail	jltang@gxu.edu.cn
	Selected publications		
	<p>sRNA-Xcc1, an integron-encoded transposon- and plasmid-transferred trans-acting sRNA, is under the positive control of the key virulence regulators HrpG and HrpX of <i>Xanthomonas campestris</i> pathovar <i>campestris</i>. RNA Biology 2011, 8, 947-953.</p> <p>Comparative and functional genomics reveals genetic diversity and determinants of host specificity among reference strains and a large collection of Chinese isolates of the phytopathogen <i>Xanthomonas campestris</i> pv. <i>campestris</i>. Genome Biology 2007, 8, R218.</p>		
Position	President of Guangxi University		
Address	Guangxi University		
Expertise	Pathogenomics of <i>Xanthomonas</i>		
Name	Qi CHENG	E-mail	chengqi@caas.net.cn
	Selected publications		
	<p>Perspectives in Biological Nitrogen Fixation Research. J. Integr. Plant Biol. 2008, 50, 784-796.</p> <p>Cheng, Q., Day, A, Dowson-Day, M., Shen, G.F. and Dixon, R. (2005) The <i>Klebsiella pneumoniae</i> nitrogenase Fe protein gene (<i>nifH</i>) functionally substitute for the <i>chlL</i> gene in <i>Chlamydomonas reinhardtii</i>. Biochemical and Biophysical Research Communication 329, 966-975.</p>		
Position	Group leader		
Address	Chinese Academy of Agricultural Sciences (CAAS)		
Expertise	Rewind the clock of nature		


Name	Zaifeng FAN	E-mail	fanzf@cau.edu.cn
	Selected publications		
	<p>Plastocyanin transit peptide interacts with potato virus X coat protein while silencing of plastocyanin reduces coat protein accumulation in chloroplasts and symptom severity in host plants. Mol. Plant Microbe Interact. 2009, 22, 1523–1534.</p> <p>Influence of cytoplasmic heat shock protein 70 on viral infection of <i>Nicotiana benthamiana</i>. Mol. Plant Pathol. 2008, 9, 809-817.</p>		
Position	Professor		
Address	Department of Plant Pathology, China Agricultural University		
Expertise	Molecular plant-virus interactions; novel strategies for engineering viral disease resistance in crops		
Name	Jiaxun FENG	E-mail	jxfeng001@163.com
	Selected publications		
	<p>Production of raw cassava starch-degrading enzyme by <i>Penicillium</i> and its use in conversion of raw cassava flour to ethanol. Journal of Industrial Microbiology & Biotechnology 2011, 38, 733-742.</p> <p>Identification and characterization of a novel xylanase derived from a rice straw degrading enrichment culture. Applied Microbiology and Biotechnology 2010, 87, 2137-2146.</p>		
Position	Dean, Professor		
Address	College of Life Science and Technology, Guangxi University		
Expertise	Mining microbial strains and enzymes especially cellulases for converting biomass		

Name	Yuyi HUANG	E-mail	youyihuang2000@yahoo.com.cn
	Selected publications		
	Youyi Huang , Jiao-yu Deng, Jing Gu, Zhiping Zhang, Maxwell Anthony, Lijun Bi, Yuanyuan Chen, Yafeng Zhou, Ziniu Yu, Xian-En Zhang. The key DNA-binding residues in the C-terminal domain of Mycobacterium tuberculosis DNA gyrase A subunit (GyrA). Nucleic Acids Research 2006, 34, 5650-5659.		
Position	Associate Prof. / Ph.D.		
Address	State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University		
Expertise	Mechanisms of Mycobacterium tuberculosis DNA Topoisomerase		
Name	Jizeng JIA	E-mail	jzjia@mail.caas.net.cn
	Selected publications		
	Dominant and pleiotropic effects of a GAI gene in wheat results from a lack of interaction between DELLA and GID1. Plant Physiol. 2011, 157, 2120-30. Discovery, evaluation and distribution of haplotypes of the wheat Ppd-D1 gene. New Phytologist 2010, 185, 841-51.		
Position	PI, Professor		
Address	Institute of Crop Science, CAAS, Beijing , China		
Expertise	Wheat genomics and genomic resources, gene discovery		

Name	Da LUO	E-mail	dluo@sibs.ac.cn
	Selected publications		
	<p>Genetic control of floral zygomorphy in pea (<i>Pisum sativum</i> L.). Proc. Natl. Acad. Sci. USA 2008, 105, 10414-10419.</p> <p>Control of petal shape and floral zygomorphy in <i>Lotus japonicus</i>. Proc. Natl. Acad. Sci. USA 2006, 103, 4970-4975.</p>		
Position	Professor		
Address	School of Life Sciences, Sun Yat-sen University, Guangzhou , China		
Expertise	Mechanisms for floral development		
Name	Jie LUO	E-mail	jie.luo@mail.hzau.edu.cn
	Selected publications		
	<p>A novel spermidine acyltransferase responsible for the accumulation of polyamine conjugates in <i>Arabidopsis</i> seed. Plant Cell 2009, 21, 318-333.</p> <p>AtMYB12 regulates caffeoyl quinic acid and flavonol synthesis in tomato; expression in fruit results in very high levels of both types of polyphenol. Plant J, 2008, 56, 316-326.</p>		
Position	professor		
Address	Huazhong Agricultural University		
Expertise	secondary metabolism and metabolomics in rice		

Name	Long MAO	E-mail	maolong@caas.net.cn
	Selected publications		
	<p>Evolution of plant microRNA gene families. Cell Res 2007, 17, 212-218.</p> <p>Mao L, Begum D, Chuang H, Budiman M, Szymkowiak E, Irish E, Wing R. JOINTLESS is a MADS-box gene controlling tomato flower abscission zone development. Nature 2000, 406, 910-913.</p>		
Position	Group Leader		
Address	Institute of Crop Science, Chinese Academy of Agricultural Sciences		
Expertise	Mechanisms of fruit/flower abscission; Wheat functional genomics and genome evolution		
Name	Jinrong PENG	E-mail	pengjr@zju.edu.cn
	Selected publications		
	<p>Depletion of Bhmt Elevates sonic hedgehog Transcript Level and Increases -Cell Number in Zebrafish. Endocrinology 2011, 152, 4706-4717.</p> <p>Gibberellin Acts Through Jasmonate To Control the Expression of MYB21, MYB24 and MYB57 To Promote Stamen Filament Growth in Arabidopsis. PLoS Genetics 2009, 5, e1000440.</p>		
Position	Professor		
Address	College of Animal Sciences, Zhejiang University, Hangzhou, China		
Expertise	Gibberellin signaling; liver development and regeneration in zebrafish		

Name	Li-jia QU	E-mail	qulj@pku.edu.cn
	Selected publications		
	<p>D-myo-inositol-3-phosphate affects phosphatidylinositol - mediated endomembrane function in Arabidopsis and is essential for auxin-regulated embryogenesis. Plant Cell 2011, 23, 1352-1372.</p> <p>HCA2, a Dof transcription factor gene, regulates interfascicular cambium formation and vascular tissue development in Arabidopsis. Plant Cell 2009, 21, 3518-3534.</p>		
Position	Associate Director of National Key Laboratory of Protein and Plant Gene Research		
Address	School of Life Sciences, Peking University		
Expertise	methylation of phytohormones and leaf flatness and branching, molecular mechanisms involved in gametogenesis and embryogenesis, and functional analysis of transcription factors in Arabidopsis		
Name	Shiping WANG	E-mail	swang@mail.hzau.edu.cn
	Selected publications		
	<p>Promoter mutations of an essential gene for pollen development result in disease resistance in rice. Genes Dev. 2006, 20, 1250-5.</p> <p>The bacterial pathogen <i>Xanthomonas oryzae</i> overcomes rice defenses by regulating host copper redistribution. Plant Cell 22 (9):3164-3176.</p>		
Position	professor		
Address	Huazhong Agricultural University		
Expertise	the molecular mechanism of quantitative disease resistance		

Name	Yiping WANG	E-mail	wangyp@pku.edu.cn
	Selected publications		
	<p>From signal perception to signal transduction: ligand-induced dimeric switch of DctB sensory domain in solution. Mol. Microbiol. 2010, 75, 1484–1494.</p> <p>IHF-binding sites inhibit DNA loop formation and transcription initiation. Nucleic Acids Research 2009, 37: 3878-3886.</p> <p>Interplay between CRP-cAMP and PII-Ntr systems forms novel regulatory network between carbon metabolism and nitrogen assimilation in Escherichia coli. Nucleic Acids Research 2007, 35, 1432-40.</p>		
Position	Professor		
Address	Peking University		
Expertise	nitrogen fixation, signal perception in two component regulatory systems, the interplay between carbon and nitrogen assimilation and the mechanism of transcriptional activation by sigma54 - dependent activators		