

The 5th International Conference on Biotic Plant Interaction

(The Second Round Announcement)

On behalf of the Organizing Committee, we sincerely invite colleagues to attend the 5th International Conference on Biotic Plant Interactions (5th ICBPI) in Xiamen, China on August 17-21, 2017. The theme of this five-day conference is Biotic-Plant Interactions and Sustainable Control of Pests on Crops. As a continuing effort after the 1st conference (Brisbane, Australia in 2008), the 2nd conference (Kunming, China in 2011), the 3rd conference (Yanglin, China in 2013), and the 4th conference (Nanjing, China in 2015), this conference will be organized by the State Key Laboratory of Ecological Pest Control of Fujian and Taiwan Crops, Fujian Agriculture and Forestry University and Institute of Plant Physiology and Ecology at Chinese Academy of Science, Chinese Society for Plant Biology and Chinese Society for Plant Pathology. It will bring together 800-1000 scientists all over the world and cover nine sessions: plant-fungus interactions, plant-oomycete interactions, plant-bacteria interactions, plant-virus interactions, plant-insect interactions, parasitic plants/nematodes, plant symbiosis, epigenetics in biotic plant interactions, and molecular design in crop resistance.

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CHAIRS:

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State Key Laboratory of Ecological Pest Control for Fujian and Taiwan Crops
Fujian Agriculture and Forestry University, FAFU
Institute of Plant Physiology & Ecology (SIPPE), Chinese Academy of Science (CAS)
Chinese Society of Plant Biology, CSPB
Chinese Society for Plant Pathology, CSPP
Minjiang University
Fuzhou Zhongxinhe Conference Service Company

● **The conference venue**

Xinglinwan Hotel, Xiamen

No.301 Xingbin Road, Jimei District, Xiamen, China

● **Program**

Congress Program

Time	Aug 17
8:00-23:00	Registration - The lobby of Xinglinwan Hotel

Time	Aug 18	Aug 19	Aug 20
8:00-12:10	Plenary Session I/II	Plenary Session III/IV	Plenary Session V/VI Plenary Session VII/VIII
14:00-17:40	Concurrent Session I. Plant-bacteria interactions	Concurrent Session II. Plant-fungus/oomycete interact (b)	Concurrent Session II. Plant-fungus /oomycete interact (c)
	Concurrent Session II. Plant-fungus/oomycete interact (a)	Concurrent Session III. Plant-insect/nematode/plant parasite interactions	Concurrent Session V. Plant resistance and crop molecular design (c)
	Concurrent Session IV. Plant-virus interactions	Concurrent Session V. Plant resistance and crop molecular design (b)	Young Scholar Session I
	Concurrent Session V. Plant resistance and crop molecular design (a)	Poster Section (18:00-21:00)	Young Scholar Session II
18:00-21:00	Welcome Banquet	Beer and Poster	Dinner and Culture Activity

Opening session and Keynote Speech,

Aug 18, Room XX

08:00-08:10 **Opening Speech: Dr. Le Kang, Academician of CAAS, Co-Chair**

08:10-08:40 Lianhui Xie Prospective of the Ecological Pest Management

Plenary Session I

Aug 18, Room XX

08:40-09:10 Xinnian Dong Translation in plant immune responses

09:10-09:40	Youliang Peng	PacC-dependent adaptation to alkalized host cells by <i>Magnaporthe oryzae</i> is required for rice blast disease	
09:40-10:10	Coffee break and group photo		
Plenary session 2			
10:10-10:40	Regine Kahmann	Secreted core effectors in smut fungi: an amazing treasure box	
10:40-11:10	Saskia Hogenhout	Genetic components that mediate plant-insect interactions and transmission of plant pathogens	
11:10-11:40	Jin-Rong Xu	Ascosporeogenesis and ascospore discharge in the wheat scab fungus <i>Fusarium graminearum</i>	
11:40-12:10	Taiyun Wei	The horizontal and vertical transmission mechanisms for rice viruses by insect vectors	
12:10-14:00	Lunch		
Session I. Plant-bacteria interactions			
Aug 18, Room XX			
14:00-14:20	Alberto Macho	Deciphering the molecular interface between plants and the bacterial pathogen <i>Ralstonia solanacearum</i>	
14:20-14:40	Gitta Laurel Coaker	Direct visualization of bacterial effector delivery during plant infection	
14:40-15:00	Libo Shan	Cotton functional genomics in disease resistance	
15:00-15:20	María Elena Alvarez	Chromatin alterations triggered by <i>Pseudomonas</i> infection and their effects on <i>Arabidopsis</i> defenses	
15:20-15:40	Wei Qian	Function of bacterial receptor histidine kinases in sensing host plant	
15:40-16:00	Break		
16:00-16:20	Jane Parker	Genetic architecture of temperature-controlled defense homeostasis in <i>Arabidopsis</i>	
16:20-16:40	TBD		
16:40-17:00	TBD		
17:00-17:20	TBD		
17:20-17:40	TBD		

Session II (a). Plant-fungus/oomycete interact			
Aug 18, Room XX			
14:00-14:20	Richard A. Wilson	Metabolic control of effector secretion by <i>Magnaporthe oryzae</i>	
14:20-14:40	Zhensheng Kang	The role of barberry in epidemics and virulence variation of wheat stripe rust	
14:40-15:00	Wenbo Ma	<i>Phytophthora</i> effectors manipulate plant small RNAs to promote infection	

15:00-15:20	Qianhua Shen	Phosphorylation and transcription regulations in barley-powdery mildew interactions	
15:20-15:40	Lijun Ma	Dissecting wilt diseases using <i>Fusarium oxysporum</i> – <i>Arabidopsis</i> pathosystem	
15:40-16:00	Break		
16:00-16:20	Shihua Wang	The regulating mechanism of epigenetic modification on aflatoxin biosynthesis in <i>Aspergillus flavus</i>	
16:20-16:40	Yong Hwan Lee	Phenotype plasticity of gain and loss of mutations in the rice blast fungus	
16:40-17:00	Zhonghua Ma	A specific transcript factor SREBP-1 regulates multiple stress responses and virulence in <i>Fusarium graminearum</i>	
17:00-17:20	Baoshan Chen	Genetic diversity of and development of efficient transformation system for the sugarcane smut fungus in Sothern China	
17:20-17:40	Bo Zhou	Breeding durable resistance against rice blast in rice	

Session IV. Plant-virus interactions

Aug 18, Room XX

14:00-14:20	Yau-Heiu Hsu	Autophagy involved in assiting the Bamboo mosaic virus accumulation in <i>Nicotiana benthamiana</i>	
14:20-14:40	Dawei Li	The multifunctional role of Barley stripe mosaic virus γ b protein in viral replication and movement	
14:40-15:00	Zhenghe Li	Insights into plant rhabdovirus virion morphogenesis and local movement	
15:00-15:20	Yule Liu	Autophagy functions as an antiviral mechanism against geminiviruses in plants	
15:20-15:40	Xiaorong Tao	Molecular dissection of Sw-5b-mediated broad-spectrum resistance to tospoviruses	
15:40-16:00	Break		
16:00-16:20	Jeanmarie Verchot	The ER stress machinery plays a central role in regulating virus infection	
16:20-16:40	Aiming Wang	Molecular characterization and manipulation of host factors for the control of plant potyviruses	
16:40-17:00	Daoxin Xie	Virus manipulates plant hormone signaling to attract insect vectors	
17:00-17:20	Jian Ye	Dynamic regulation and manipulation of communication signals in plant response to virus-vector mutualistic interactions	
17:20-17:40	Lili Zhang	Microbiota in plant-insect vector-virus interaction	
17:40-18:00	Na-Sheng Lin	The helper virus-independent systemic movement	

		of a viral satellite RNA in plant	
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Session V (a). Plant resistance and crop molecular design

Aug 18, Room XX

14:00-14:20	Mark James Banfield	Engineering a plant immune receptor to extend pathogen effector recognition	
14:20-14:40	Wende Liu	Proteomic insights into lysine-acetylation mediated innate immunity in rice (<i>Oryza sativa</i>)	
14:40-15:00	Georg Ulrich Felix	Specificity and diversity of plant pattern recognition receptors	
15:00-15:20	Baoming Feng	Protein Poly(ADP-ribosyl) ation in <i>Arabidopsis</i> innate immunity	
15:20-15:40	Lirong Zeng	Role of the ubiquitin-conjugating enzymes in plant innate immunity	
15:40-16:00	Break		
16:00-16:20	Ping He	Uncoupled functions of ANXUR receptor-like kinases in plant immunity and sexual reproduction	
16:20-16:40	Fumi Katagiri	Dynamics, mechanisms, and evolution of a highly resilient plant immune signaling network	
16:40-17:00	Jian Hua	impact of cellular status on the expression of a plant immune receptor gene in <i>Arabidopsis</i>	
17:00-17:20	Kobe Bostjan	Towards understanding TIR-domain interactions during NLR immunity receptor signalling	
17:20-17:40	Chuanyou Li	Transcriptional regulation of jasmonate signaling	

Plenary session 3

Aug 19, Room XX

08:00-08:30	Yuanchao Wang	Defense and counter-defense during Phytophthora infection	
08:30-09:00	Bart P.H.J.Thomma	Adaptive genome evolution in the vascular wilt pathogen <i>Verticillium</i>	
09:00-09:30	Guoliang Wang	The monocot-specific RLK SDS2 modulated by the E3 Ligase SPL11 controls Cell Death and Immunity via RLCKs in Rice	
09:30-10:00	Sophien Kamoun	Membrane trafficking at the haustorial interface	
10:00-10:10	Break		

Plenary session 4

10:10-10:40	Paul Schulze-Lefert	Microbiota functions in plant nutrition	
10:40-11:10	Marty Dickman	Tipping the balance: cell death control in plant-pathogen interactions	
11:10-11:40	Huishan Guo	Learning from the interaction between cotton and	

		<i>Verticillium dahliae</i>	
11:40-12:10	Blake Meyers	The evolutionary complexity of microRNAs that target NB-LRR disease resistance genes	
12:10-14:00	Lunch		

Session II (b). Plant-fungus oomycete interact

Aug 19, Room XX

14:00-14:20	Kim Elizabeth Hammond-kosack	Exploring the compatible <i>Fusarium</i> -wheat interaction using a multi-‘omics’ approach.	
14:20-14:40	Daolong Dou	Molecular interactions of <i>Phytophthora capsici</i> and its host plants	
14:40-15:00	Weihua Tang	In planta fungal profiling provides insights into <i>Fusarium graminearum</i> infection of wheat and maize	
15:00-15:20	Ertao Wang	Perception of arbuscular mycorrhizal fungi by plants	
15:20-15:40	Xiaojie Wang	Pst-milR1, an important pathogenicity factor of <i>Puccinia striiformis</i> , impairs wheat resistance to Pst by suppressing wheat pathogenesis related gene 2	
15:40-16:00	Break		
16:00-16:20	Fucheng Lin	Metabolomics and proteomics in <i>Magnaporthe oryzae</i>	
16:20-16:40	Weixing Shan	Genetic dissection of plant susceptibility to <i>Phytophthora</i> pathogens	
16:40-17:00	Suomeng Dong	Oomycete plant pathogen reprograms host pre-mRNA splicing to subvert immunity	
17:00-17:20	Huiquan Liu	Rapidly evolving effector superfamilies promote host adaptation and speciation in the basal ascomycete genus <i>Taphrina</i>	
17:20-17:40	Chang Hyun Khang	Investigating rice blast disease at single-cell resolution: pathogen development, blast effectors, and host membranes	

Session III. Plant-insect/nematode/plant parasite interactions

Aug 19, Room XX

14:00-14:20	Markus Dr. Albert	Detection of the plant parasite <i>Cuscuta reflexa</i> by tomato host plants	
14:20-14:40	Chengshu Wang	Genetics and metabolic responses of fungus-insect interactions	
14:40-15:00	Xuexin Chen	Functions of teratocytes in parasitoid-host interaction	
15:00-15:20	Hua Lu	Interference of plant cell fate determination by microbial pathogens	

15:20-15:40	Shusheng Liu	Plant-mediated interspecific competition between whiteflies	
15:40-16:00	Break		
16:00-16:20	Andrew Farmer Bent	Molecular mechanisms of soybean resistance to soybean cyst nematode	
16:20-16:40	Sibao Wang	The entomopathogenic fungus recruits gut microbiota to kill mosquitoes	
16:40-17:00	Jianqiang Wu	The parasitic plant dodder transfers biotic and abiotic stress-induced systemic signals among host plants	
17:00-17:20	Zhongmin Wei	Plant-response elicitor technology (PREtec) platform for crop production	
17:20-17:40			

Session V (b). Plant resistance and crop molecular design

Aug 19, Room XX

14:00-14:20	Thomas Anton Eulgem	Epigenetics-related work on EDM2/EDM3 and their roles in plant immunity	
14:20-14:40	Jinlong Qiu	Stomatal opening confers immunity to bacterial leaf blight in rice	
14:40-15:00	Silke Dr.Robatzek	How endocytosis regulates immunity	
15:00-15:20	Mo Wang	The major leaf ferredoxin Fd2 regulates plant innate immunity in <i>Arabidopsis</i>	
15:20-15:40	Jens Stougaard	Signals and receptors involved in endosymbiosis	
15:40-16:00	Break		
16:00-16:20	Yiji Xia	Uncovering the molecular mechanism of AtNUDT6- and AtNUDT7-mediated in plant immunity	
16:20-16:40	Tina Ines Eva DR.Romeis	CDPK signaling in the activation of local and distal defense responses	
16:40-17:00	Wei Li	The rice phosphate transporter protein OsPT8 regulates disease resistance and plant growth.	
17:00-17:20	Tokuji Tsuchiya	Defense regulation by the chromatin-associated protein EDM2 in <i>Arabidopsis thaliana</i>	
17:20-17:40	Shunyuan Xiao	Membrane biogenesis and protein targeting in haustorium-invaded plant cells	

Plenary session 5

Aug 20, Room XX

08:00-08:30	Shengyang He	Bacterial pathogenesis in the phyllosphere: basic principles, climate influence and microbiota	
08:30-09:00	Gongyou Chen	iTAL effectors overcome bacterial blight resistance in rice	

09:00-09:30	Citovsky Vitaly	Plasmodesmal localization signal of the Tobacco mosaic virus cell-to-cell movement protein	
09:30-10:00	Roger Innes	Extracellular vesicles: An underappreciated component of the plant immune system	
10:00-10:10	Break		
Plenary session 6			
10:10-10:40	Jonathan Jones	Activation of defence by the RPS4/RRS1 paired NLR protein complex	
10:40-11:10	Hailing Jin	Cross-Kingdom RNA trafficking and environmental RNAi-Powerful innovative strategies for crop protection	
11:10-11:40	Guangcun He	Allelic diversity in an NLR gene BPH9 enables rice to combat planthopper variation	
11:40-12:10	Thorsten Nürnberger	A pore-forming toxin as microbial virulence factor and effector in immune defense	
12:10-14:00	Lunch		

Plenary session 7			
Aug 20, Room XX			
08:00-08:30	Zuhua He	Genetic and epigenetic control of broad-spectrum blast resistance in rice	
08:30-09:00	Brett Tyler	Dissecting the role of the <i>Phytophthora sojae</i> effector repertoire using CRISPR	
09:00-09:30	Dingzhong Tang	The role of a truncated NLR in plant immunity	
09:30-10:00			
10:00-10:10	Break		
Plenary session 8			
10:10-10:40	Jianmin Zhou	How does a plant receptor activate heterotrimeric G proteins?	
10:40-11:10	Daohong Jiang	<i>Sclerotinia sclerotiorum</i> , can it be a friend?	
11:10-11:40	Barbra Valent	TBD	
11:40-12:10	Xueping Zhou	The pathogenicity factor of a geminivirus C4 induces symptoms by changing nuclear-localization of NbSK η	
12:10-12:20	Xueping Zhou	Welcoming to the 6th ICBPI	
12:20-14:00	Lunch		

Session II (c). Plant-fungus oomycete interact			
Aug 20, Room XX			
14:00-14:20	Sebastian Schornack	Comparative studies of pathogenic and mutualistic root microbe interactions	

14:20-14:40	Junfeng Liu	Structural basis of the loss of the avirulence function of AvrPib from the rice blast fungus	
14:40-15:00	Stefan Olsson	Biotic fungal-bacterial interactions with a focus on the recruitment of hyphosphere bacteria	
15:00-15:20	Fang Xie	Characterization of genes mediate rhizobial infection in <i>Lotus japonicus</i>	
15:20-15:40	Yongli Qiao	The molecular mechanism of suppressing host induced gene silencing by <i>Phytophthora effector</i>	
15:40-16:00	Break		
16:00-16:20	Guodong Lu	<i>Magnaporthe</i> Chitinase Interacts with a Jacalin-related Lectin and Promotes Host Colonization	
16:20-16:40			
16:40-17:00			
17:00-17:20			
17:20-17:40			

Session V (c). Plant resistance and crop molecular design

Aug 20, Room XX

14:00-14:20	Kabin Xie	A CRISPR/Cas9 toolbox based on the endogenous tRNA processing for multiplex genome engineering	
14:20-14:40	Elizabeth P. B. Fontes	Inverse modulation of antibacterial and antiviral immunity by plasma membrane-associated immune complexes	
14:40-15:00	Li Yang	Regulation of the growth-defense balance in plants: lessons learned from virulence effectors	
15:00-15:20	Yan Liang	Intersection between MAMP-triggered innate immunity and symbiosis	
15:20-15:40	Xiaoming Zhang	The role of a novel AGO-binding protein in plant immunity	
15:40-16:00	Break		
16:00-16:20	Yuelin Zhang	Regulation of plant immunity by multiple MAP kinase cascades	
16:20-16:40	Eloise Foo	Determining the site of action of strigolactones during nodulation	
16:40-17:00	Haitao Cui	A two-pronged mechanism for boosting SA defense in TNL immunity	
17:00-17:20	Pingtao Ding	Comprehensive capture-seq (Coca-seq) unravels gene regulation mechanism in plant immune signalling	
17:20-17:40			

TBD	Youssef Belkhadir	TBD	
TBD	Jianfeng Li	TBD	
TBD	John MacDowell	TBD	
TBD	Naweed Naqvi	TBD	
TBD	Balakrishnan Prithiviraj	TBD	
TBD	Ryohei Terauchi	TBD	
TBD	Dong Wang	TBD	

Young Scholar

Aug 20, Room XX


14:00-14:20	To be selected from the submitted abstracts	
14:20-14:40		
14:40-15:00		
15:00-15:20		
15:20-15:40		
15:40-16:00	Break	
16:00-16:20	To be selected from the submitted abstracts	
16:20-16:40		
16:40-17:00		
17:00-17:20		
17:20-17:40		

Young Scholar

Aug 20, Room XX

14:00-14:20	To be selected from the submitted abstracts	
14:20-14:40		
14:40-15:00		
15:00-15:20		
15:20-15:40		
15:40-16:00	Break	
16:00-16:20	To be selected from the submitted abstracts	
16:20-16:40		
16:40-17:00		
17:00-17:20		
17:20-17:40		

● Registration

If you want to attend the conference, please send the  Registration Form (Download from <http://english.fafu.edu.cn/5icbpien/7248/list.htm>) to 5icbpi@fafu.edu.cn or the5icbpi@163.com.

●Registration fees

Paid before May 18, 2017: General \$320 USD, Student/Postdoctoral fellow \$250 USD

Paid after May 18, 2017: General \$400 USD, Student/Postdoctoral fellow \$320 USD

You can submit abstract and prepare poster. The recommendation size of POSTER: 800 mm × 1200 mm. (Please send your abstract to 5icbpi@fafu.edu.cn or the5icbpi@163.com before June 1, 2017). **We will select 20 young scholars from the submitted abstracts as the concurrent speakers.**

● **The official website of the conference**

<http://english.fafu.edu.cn/5icbpien/>