



2023 年国际昆虫学大会

暨第 5 届国际昆虫基因组学大会

第 8 届昆虫生理生化与分子生物学国际研讨会

正式通知（第二次，中文版）

2023 年国际昆虫学大会暨第 5 届国际昆虫基因组学大会和第 8 届昆虫生理生化与分子生物学国际研讨会将在 **2023 年 8 月 6-10 日** 在中国保定市召开。该系列会议每两年一次在中国举行，是分子昆虫学领域高水平大型国际学术盛会。本次大会主题为 **Frontiers in molecular insect science and prospects for a new era**。设有特邀大会报告、分会（专题）报告、墙报等交流形式。欢迎广大相关领域科研工作者和研究生参会。

具体信息参见会议网站 <http://icis2023.scievent.com>。

一. 主办单位：

河北大学

中国昆虫学会昆虫生理生化与分子生物学专业委员会

中国昆虫学会昆虫基因组学专业委员会

中国昆虫学会昆虫微生物组学专业委员会

中国昆虫学会昆虫发育与遗传专业委员会

中国昆虫学会昆虫比较免疫与互作专业委员会

中国昆虫学会昆虫化学生态学专业委员会

中国昆虫学会媒介昆虫与病原互作专委会

二. 承办单位: 河北大学生命科学学院

三. 协办单位: 河北省昆虫学会、保定市港中会议展览有限责任公司

四. 大会主席/共同主席:

康乐 (院士, 河北大学校长)

Ary Hoffmann (院士, University of Melbourne)

五. 会议时间和地点

时间: 8月6-10日 (6日报到, 7-9日开会, 10日离会)

地点: 河北省保定市, 河北大学七一路校区/保定中博希尔顿逸林酒店

语言: 英语

规模: 预计 600 人

六. 会议总体日程

Time	Session/Function	Location	Convener/Moderator
August 6			
10:00-24:00	Registration	希尔顿逸林酒店 Hilton Hotel	
August 7			
8:30-8:50	Opening ceremony	河北大学图书馆报告厅 University Library Lecture Hall	Le Kang (康乐)
8:50-12:05	Plenary lectures	河北大学图书馆报告厅 University Library Lecture Hall	Marcelo Jacobs-Lorena / Amir Ayali
14:00-18:00 (分会场 S)	S1: Genetic Population Engineering	希尔顿水杉永昌 Shuishan Yongchang Hall, Hilton	Jackson Champer, Guan-Hong Wang (王关红), Xuejiao Xu (徐雪娇), Jie Du (杜捷)
	S2: Insect Development and Genetics	希尔顿逸林厅 Yilin Hall, Hilton	Shutang Zhou (周树堂), Sheng Li (李胜)
	S3: Insect Immunity and Interaction	希尔顿国槐玉兰厅 Guohuai Yulan Hall, Hilton	Aihua Zheng (郑爱华), Gong Cheng (程功), Feng Cui (崔峰)
	S4: Insect Behavior-Neurobiology, Genetics, genomics and phylogeny	卓正蓝湾厅 Lanwan Hall, Zhuozheng	Juan Du (杜娟), Yukinori Hirano, Weiwei Liu (刘薇薇), Zhangwu Zhao (赵章武)
	S5: Insect Development and Evolution of	希尔顿中际厅 Zhongji Hall, Hilton	Haijun Xu (徐海君), Yonggang Hu (胡永刚)

	Phenotypic plasticity		
	S6: Functional Genomics in Chemical Ecology	卓正莲池厅 Lianchi Hall, Zhuozheng	Guirong Wang (王桂荣), Emmanuelle Joly
	Poster	希尔顿酒店三层大厅 (电梯西侧) Lobby, Third floor, Hilton	P1-P40
August 8			
8:30-12:00 (分会场 S)	S7: Insect Genomics and Evolution	希尔顿逸林厅 Yilin Hall, Hilton	Guirong Wang (王桂荣), Yongping Huang (黄勇平), Xianhui Wang (王宪辉)
	S8: Insect-Plant Interactions	希尔顿中际厅 Zhongji, Hilton	Jiancai Li (李建彩), Yazhou Chen (陈亚州), Betty Benrey
	S9: Insect RNAi: progress and prospects	希尔顿国槐玉兰厅 Guohuai Yulan Hall, Hilton	T.-X. Liu, Guy Smagghe
	S10: Social Insects: Behavior and Evolution	希尔顿水杉永昌厅 Shuishan Yongchang Hall, Hilton	Yongyue Lu (陆永跃), Youming Hou (侯有明)
	S11: Insect Physiology, Biochemistry and Molecular Biology	卓正莲池厅 Lianchi Hall, Zhuozheng	Fei Li (李飞), Shaoying Wu (吴少英)
	S12: Insect Microbiome	卓正蓝湾厅 Lanwan Hall, Zhuozheng	Sibao Wang (王四宝), Xiaoyue Hong (洪晓月), Junbo Luan (栾军波), Hao Zheng (郑浩)
	Poster	希尔顿酒店三层大厅 (电梯西侧) Lobby, Third floor, Hilton	P1-P40
14:00- 18:00 (分会场 S)	S11: Insect Physiology, Biochemistry and Molecular Biology	卓正莲池厅 Lianchi Hall, Zhuozheng	Fei Li (李飞), 吴少英 (Shaoying Wu)
	S12: Insect Microbiome	卓正蓝湾厅 Lanwan Hall, Zhuozheng	Sibao Wang (王四宝), Xiaoyue Hong (洪晓月), Junbo Luan (栾军波), Hao Zheng (郑浩)
	S13: Insect Chemical Ecology	希尔顿中际厅 Zhongji Hall, Hilton	Li Chen (陈立), Jianghua Sun (孙江华)
	S14: Molecular Systematics	希尔顿逸林厅 Yilin Hall, Hilton	Chaodong Zhu (朱朝东), Arong Luo(罗阿蓉),

			Douglas Chestes, Feng Zhang(张峰)
	S15: Insect Invasion and Management	希尔顿水杉永昌厅 Shuishan Yongchang Hall, Hilton	Zhihong Li (李志红), Alvin Hee, Shujun Wei (魏书军)
	S16: Insect Cuticle Biology and Pest Management	希尔顿国槐玉兰厅 Guohuai Yulan Hall, Hilton	Qing Yang (杨青), Jianzhen Zhang (张建珍), Bernard Moussion, Kun Yan Zhu
	Poster	希尔顿酒店三层大厅 (电梯西侧) Lobby, Third floor, Hilton	P41-P85
18:00-20:00	Poster	希尔顿酒店三层大厅 (电梯西侧) Lobby, Third floor, Hilton	P41-P85
19:00-20:00	Best Oral and Poster Award Selection		
August 9			
8:30-11:40	Plenary Lectures	河北大学图书馆报告厅 University Library Lecture Hall	Ary Hoffmann / Sibao Wang
11:40-12:15	Closing Ceremony	河北大学图书馆报告厅 University Library Lecture Hall	Bing Chen (陈兵)
August 10, leave			

七. 参会注册

受会议规模限制，所有参会人员需提前通过大会网站线上注册报名。

注册费涵盖会议资料、餐费、茶歇及会场相关费用。注册费支付方式包括银行转账、网上支付、微信扫码支付或现场交付。注册费打款时务必备注“ICIS2023+姓名+单位名称”。

开户名称：保定市港中会议展览有限责任公司

开户银行：中国民生银行保定分行

银行账号：638 492 634（人民币），638 494 378（美元）

微信支付（二维码，见右）：



表 1. 会议注册费收费标准

人员身份	国内参会人 (人民币元)	国外参会人 (美元)

	6月1日前	6月1日后	6月1日前	6月1日后
一般参会人	2300	2700	400	450
学生	1800	2100	260	300

八. 住宿、交通与考察

住宿、交通与考察费用自理。大会推荐的酒店和住宿标准见会议网站；如果选择会议召开所在酒店（希尔顿逸林、卓正国际酒店），则需要通过会议网站预定或者联系会务组预定。会务组提供附近机场（北京大兴机场、石家庄正定机场）和高铁站（保定东站）到会场的定点免费穿梭巴士。大会推荐考察路线。上述相关具体信息见会议网站。

九. 联系方式：

陈兵，0312-5075504，email: icis2023@hbu.edu.cn

秘书处：刘少平，电话：0312-5075365，13930137468

地址：河北省保定市河北大学五四东路校区（邮编：071002）

注：大会报告和分会场报告的日程安排和报告信息、会务组各具体事务的联系人和联系方式等具体信息见附件和会议网站。



河北大学生命科学学院



河北大学



河北省昆虫学会

2023 年国际昆虫学大会会议通知附件：

目录

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附 2. 会议具体事务联系方式

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附 5. 分会场日程安排（报告人和报告题目）

附 1. 特邀大会报告

Chair: Marcelo Jacobs-Lorena / Amir Ayali

Monday, August 7 Location: 河北大学图书馆报告(Hebei University Library Lecture Hall)

8:30-8:50	Opening ceremony Le Kang (康乐)
8:50-9:25	Plenary 1 Endosymbionts in the control of pest insects (and mites): arm waving or realistic targets? Ary Hoffmann , University of Melbourne, Australia
9:25-10:00	Plenary 2 New progress in molecular mechanism of parasitoid-host interactions Xuexin Chen (陈学新) , Zhejiang University, China
10:00-10:20	Coffee break
10:20-10:55	Plenary 3 Mosquito population modification and the malaria eradication agenda Anthony James , University of California, Irvine, USA
10:55-11:30	Plenary 4 Achieving dynamic equilibrium of nutrition drives origin of termite eusociality Sheng Li (李胜) , South China Normal University, China
11:30-12:05	Plenary 5 Exploiting herbivore-induced plant volatiles for crop protection Ted Turlings , University of Neuchâtel, Switzerland
12:05-14:00	Lunch time

Chair: Ary Hoffmann / Sibao Wang

Wednesday, August 9 Location: 河北大学图书馆报告厅(Hebei University Library Lecture Hall)

8:30-9:05	Plenary 1 The roles of histone modifications and cross-kingdom RNAi in insect-fungal pathogen interactions Sibao Wang (王四宝) , Institute of Plant Physiology & Ecology, Chinese Academy of Sciences, China
9:05-9:40	Plenary 2 Fighting malaria with mosquito-associated bacteria Marcelo Jacobs-Lorena , Johns Hopkins University, USA
9:40-10:15	Plenary 3 Leaf Masquerade Mimicry in Oakleaf Butterflies Wei Zhang (张蔚) , Peking University, China
10:15-10:35	Coffee break
10:35-11:10	Plenary 4 Symbiotic bacteria facilitated the evolution of herbivory in ants Corrie Moreau , Cornell University, USA
11:10-11:45	Plenary 5 Carbon-sourced maintenance of a mutualistic beetle-fungus invasive complex Jianghua Sun (孙江华) , Hebei University, China
11:45-12:30	Closing Ceremony Bing Chen (陈兵)
12:30-14:00	Lunch time

附 2. 会议联系方式:

- ☎ 秘书处: 刘少平, 0312-5075365, email: icis2023@hbu.edu.cn
- ☎ 网站与注册: 岳雷老师, 13242853168
- ☎ 学术报告与分会场: 郭浩老师, 18510107687
- ☎ 财务: 郑飞老师, 13020020873; 蔡红, 13020807836 (会务公司)
- ☎ 住宿与餐饮: 李新江老师, 13722216860
- ☎ 交通与考察: 刘柱东老师, 18911279730
- ☎ 招商: 黄贤亮老师, 18792646628
- ☎ 国际事务: 陈兵老师, 0312-5075504
- ☎ 会务公司: 贾丽莉: 17703128006

另, 为了方便会议信息的沟通, 请大家添加下面参会人员微信群:

Wechat ID (微信号): meizj2023

附 3. 酒店住宿

大会推荐 4 家酒店，并获得协议房间价格，这 4 家酒店是：

(一) 保定中博希尔顿逸林酒店

地址：保定市莲池区七一东路 2222 号，河北大学七一路校区马路对面

价格：大床房或双床房，450 元/间

预定方式：需要提前通过会议网站或者联系会务组人员预定

说明：该酒店同时为会议的报到注册、部分分会场会议举办和部分时段会议用餐所在酒店。

(二) 保定卓正国际酒店

地址：保定市七一东路 2358 号，河北大学七一路校区马路对面，与希尔顿逸林酒店相邻

价格：大床房或双床房，450 元/间

预定方式：需要提前通过会议网站或者联系会务组人员预定

说明：该酒店同时为会议的部分分会场会议举办和部分时段会议用餐所在酒店。

(三) 保定星际酒店 Baoding Star Hotel

地址：保定市莲池区腾飞路 288 号

价格：大床房或双床房，280 元/间

预定方式：自行拨打酒店电话预定（电话：0312-3336777，13931290890）

(四) 悦为智酒店(保定东站店)Yue Weizhi Hotel (Baoding East Station Branch)

地址：保定市莲池区腾飞路 288 号东湖世纪名座 4 号楼

价格：大床房 288 元/间，双床房 278 元/间

预定方式：自行拨打酒店电话预定（电话：15097772217）

其他酒店住宿具体信息见会议网站或者联系会务组相关负责人。

附 4. 交通

会务组提供附近 2 个机场（北京大兴机场、石家庄正定机场）和 1 个高铁站（保定东站）往返会场的定点免费穿梭巴士，设机场/车站接待引导。**如果有更新，以会议网站发布为准。**

一、8 月 6 日抵达会场交通服务：

（一）从高铁站（保定东站）到会场：距离约 5 公里

会议穿梭巴士：每 30 分钟一趟。

出租车：约 12 分钟，14 元。

（二）北京大兴国际机场至会场：全程约 130 公里。

会议巴士：发车时间为 13:30、16:30、18:00、19:30。

机场巴士（到保定）：12:00，15:00

（三）石家庄正定国际机场至会场：全程约 110 公里。

会议巴士：发车时间为 16:30、19:30。

机场巴士（到保定）：11:00、13:30、15:00、18:00、21:00、23:00

二、8 月 9-10 日离开会场交通服务：

8 月 9 日下午和 8 月 10 日上午提供交通服务。

（一）从会场到高铁站（保定东站）：

会议穿梭巴士：每 1 小时一趟。

出租车：约 12 分钟，14 元。

（二）会场至北京大兴国际机场：

会议巴士：发车时间为 12:00、14:00、16:00（8 月 9 日）和 9:00（8 月 10 日）。

保定到机场巴士：7:50、10:00，发车地点为保定城市航站楼。

（三）会场至石家庄正定国际机场：

会议巴士：发车时间为 14:00（8 月 9 日）和 8:00、11:00（8 月 10 日）。

保定到机场巴士：发车时间为 5:20、09:50、12:50、15:20、16:50、18:20，发车地点为保定关汉卿剧院。

三、其他交通服务：

由网约车或者会务公司提供双方约定价格服务。

Sunday, August 6	Time	Monday, August 7						Time	Tuesday, August 8						Time	Wednesday, August 9	Thursday, August 10	
Registration	8:30-8:55	Opening ceremony (University Library Lecture Hall)						8:30-10:10	Session 7 (Yilin Hall, Hilton)	Session 8 (Zhongji Hall, Hilton)	Session 9 (Guohuai Yulan Hall, Hilton)	Session 10 (Shuishan Yongchang Hall, Hilton)	Session 11 (Lianchi Hall, Zhuozheng)	Session 12 (Lanwan Hall, Zhuozheng)	Poster (Lobby, Third floor, Hilton)	8:30-10:15	Plenary Lectures (University Library Lecture Hall)	Leave
	8:50-10:10	Plenary lectures (University Library Lecture Hall)							Insect Genomics and Evolution	Insect-Plant Interactions	Insect RNAi Progress and Prospects	Social Insects: Behavior & Evolution	Insect Physiology, Biochemistry & Molecular Biology	Insect Microbiome	P1-P40			
	10:00-10:20	Coffee break						10:10-10:30	Coffee break						10:10-10:30	Coffee break		
	10:20-12:05	Plenary lectures (University Library Lecture Hall)						10:30-12:00	Session 7	Session 8	Session 9	Session 10	Session 11	Session 12	Poster	10:30-11:40	Plenary Lectures (University Library Lecture Hall)	
									Insect Genomics and Evolution	Insect-Plant Interactions	Insect RNAi Progress and Prospects	Social Insects Behavior & Evolution	Insect Physiology, Biochemistry & Molecular Biology	Insect Microbiome	P1-P40	10:40-12:15	Closing Ceremony (University Library Lecture Hall)	
	12:15-14:00	Lunch time						12:00-14:00	Lunch time									
	14:00-15:50	Session 1 (Shuishan Yongchang Hall, Hilton)	Session 2 (Yilin Hall, Hilton)	Session 3 (Guohuai Yulan Hall, Hilton)	Session 4 (Lanwan Hall, Zhuozheng)	Session 5 (Zhongji Hall, Hilton)	Session 6 (Lianchi Hall, Zhuozheng)	Poster (Lobby, Third floor, Hilton)	14:00-15:50	Session 11 (Lianchi Hall, Zhuozheng)	Session 12 (Lanwan Hall, Zhuozheng)	Session 13 (Zhongji Hall, Hilton)	Session 14 (Yilin Hall, Hilton)	Session 15 (Shuishan Yongchang Hall, Hilton)	Session 16 (Guohuai Yulan Hall, Hilton)	Poster (Lobby, Third floor, Hilton)	P41-P85	
		Genetic Population Engineering	Insect Development & Genetics	Insect Immunity & Interaction	Insect Behavior-Neurobiology, Genetics, Genomics & Phylogeny	Insect Development & Evolution of Phenotypic Plasticity	Functional Genomics in Chemical Ecology	P1-P40		Insect Physiology, Biochemistry & Molecular Biology	Insect Microbiome	Insect Chemical Ecology	Molecular Systematics	Insect Invasion and Management	Insect Cuticle Biology & Pest Management			
	15:50-16:10	Coffee break						15:50-16:10	Coffee break									
	16:10-18:00	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Poster	16:10-18:00	Session 11	Session 12	Session 13	Session 14	Session 15	Session 16	Poster	P41-P85	
Genetic Population Engineering		Insect Development & Genetics	Insect Immunity & Interaction	Insect Behavior-Neurobiology, Genetics, Genomics & Phylogeny	Insect Development and Evolution of Phenotypic Plasticity	Functional Genomics in Chemical Ecology	P1-P40	Insect Physiology, Biochemistry & Molecular Biology		Insect Microbiome	Insect Chemical Ecology	Molecular Systematics	Insect Invasion and Management	Insect Cuticle Biology & Pest Management				
18:30-20:30	Banquet						19:00-20:00	Best Oral and Poster Award Selection										

附 5. 分会场日程安排（报告人和报告题目）

Session 1	
Genetic Population Engineering	
Chair: Jackson Champer, Guan-Hong Wang (王关红), Xuejiao Xu (徐雪娇), and Jie Du (杜捷)	
Monday, August 7 Location: 希尔顿水杉永昌厅 (Shuishan Yongchang Hall in Hilton Hotel)	
14:00-14:20	Gene-driven ectoexpression of AalNix3&4 in dengue vector, <i>Aedes albopictus</i> . Xiao-Guang Chen , Southern Medical University, China
14:20-14:40	A small-molecule approach to restore female sterility phenotype targeted by a gene drive in the fruit pest <i>Drosophila suzukii</i> . Jia Huang , Zhejiang University, China
14:40-14:55	Design and construction of an improved homing suppression drive type with a higher genetic load. Xuejiao Xu , Peking University, China
14:55-15:10	Insights into reproductive development control by piRNA biogenesis factors from genetic studies in <i>Bombyx mori</i> . Xu Yang , CAS Centre for Excellence in Molecular Plant, China
15:10-15:20	A homing gene drive in Culex mosquitoes Jingheng Chen , Peking University, China
15:20-15:30	BmPMFBP1 regulates the development of eupyrene sperm in the silkworm, <i>Bombyx mori</i> Dehong Yang , CAS Centre for Excellence in Molecular Plant, China
15:30-15:50	Wolbachia induces widely 6mA demethylation in the testis of <i>Drosophila melanogaster</i> . Yu-Feng Wang , Central China Normal University, China
15:50-16:10	Coffee break
16:10-16:30	Regulation of insulin-like peptides in the vector mosquito <i>Aedes aegypti</i> . Lin Ling , Southeast University, China
16:30-16:45	New germline Cas9 promoters show improved performance for homing gene drive. Jie Du , Peking University, China
16:45-17:00	Gene drives for reversing insecticide-resistant alleles back to ancestral susceptible ones. Xiaomeng Mollyann Qi , University of Melbourne, Australia
17:00-17:15	Modeling malaria suppression using a simulation-based deep learning framework for CRISPR gene drive mosquitoes Yuan Hu Allegretti , Tsinghua University, China
17:15-17:30	CRISPR/Cas9-based sterile insect technique in the fall armyworm <i>Spodoptera frugiperda</i> . Hao Sun , Nanjing Agricultural University, China
17:30-17:50	Holobiont perspectives on tripartite interactions among microbiota, mosquitoes, and pathogens. Guan-Hong Wang , Institute of Zoology, Chinese Academy of Sciences, China

Session 2

Insect Development and Genetics

Chair: Shutang Zhou (周树堂) and Sheng Li (李胜)

Monday, August 7 Location: 希尔顿逸林厅 1/3 (Yilin Hall in Hilton Hotel)

14:00-14:15	On the origin of sex-specific splicing of doublesex and its function in sexual development and behavior. Yufeng Pan , Southeast University, China
14:15-14:30	Functions of Lola in the development of <i>Drosophila</i> ovary. Xiaoqiang Yu , South China Normal University, China
14:30-14:45	Hormone-activated MAPK signaling cascade facilitates an insect host combating <i>Bacillus thuringiensis</i> infection without growth penalty. Zhaojiang Guo , Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences, China
14:45-15:00	The RagA GTPase protects young egg chambers in <i>Drosophila</i> . Youheng Wei , Yangzhou University, China
15:00-15:15	The mitochondria ribosomal protein mRpl4 regulates Notch signaling during wing development. Junzheng Zhang , China Agricultural University, China
15:15-15:30	Eclosion muscles secrete ecdysteroids to initiate asymmetric intestinal stem cell division. Zheng Guo , Huazhong University of Science and Technology, China
15:30-15:45	The characterization of the circadian rhythm in the <i>Bactrocera dorsalis</i> . Zhenxing Liu , Chongqing University, China
15:50-16:10	Coffee break
16:10-16:20	An instructor sex-determination gene in the haplodiploid wasp <i>Nasonia</i> . Yuan Zou , Sun Yat-sen University, China
16:20-16:30	Zerknullt and ecdysone 20E coregulate the formation and function of serosal cuticle. Tingting Zhang , Shanxi University, China
16:30-16:40	CRISPR/Cas9-mediated mutagenesis of abdominal-A and ultrabithorax in the Asian corn borer, <i>Ostrinia furnacalis</i> . Qi Zhang , Shenyang Agricultural University, China
16:40-16:50	Molecular chaperone Hsp70 is essential for endoreplication in <i>Bombyx</i> and <i>Drosophila</i> . Wenliang Qian , Southwest University, China
16:50-17:00	The role of deubiquitinating enzymes in insect organ development. Yunhe Zhao , Shandong Agricultural University, China
17:00-17:10	Juvenile hormone and TORC1 regulate PGC-1 α expression for mitochondrial biogenesis and fat body remodeling. Yiyi Li , Henan University, China
17:10-17:20	Establishment of CRISPR/Cas9 system and its application in Y specific gene function research in <i>Bactrocera dorsalis</i> . Jiao Qiao , Huazhong Agricultural University, China
17:20-17:30	Functional mechanisms of pseudogerm of parasitoid <i>Macrocentrus cingulum</i>

	(Hymenoptera: Braconidae) on inhibiting the pupation of host larva. Yurong Zhang , Sun Yat-sen University, China
17:30-17:40	Fzr regulates silk gland growth by promoting protein synthesis in the silkworm. Hao Li , Southwest University, China
17:40-17:55	Kruppel Homolog 1 Orchestrates Stage-Specific Hormonal Response to 20-Hydroxyecdysone in Adult Mosquitoes. Jinsong Zhu , Virginia Tech, USA
17:55-18:10	Metabolic signaling in aging and development. Hua Bai , Iowa State University, USA

Session 3

Insect Immunity and Interaction

Chair: Aihua Zheng (郑爱华), Gong Cheng (程功), and Feng Cui (崔峰)

Monday, August 7 Location: 希尔顿国槐玉兰厅 (Guohuai Yulan Hall in Hilton Hotel)

14:10-14:30	Mechanism of Eurycomanone (EN) and AcMNPV inhibiting the insulin signaling pathway and innate immunity in <i>Spodoptera frugiperda</i> Jie Zhang , South China Agricultural University, China
14:30-14:50	Effects of abiotic factors on demography and endosymbionts of <i>Diaphorina citri</i> (Hemiptera: Liviidae) and the influence on natural enemies by HLB disease. Mubasher Hussain , Institute of Zoology, Guangdong Academy of Sciences, China
14:50-15:10	Pseudogerms of parasitoid <i>Macrocentrus cingulum</i> secrete miR-281-5p targeting host apolipoprotein to inhibit host's hemocytic encapsulation against wasp larvae. Jian Hu , Sun Yat-sen University, China
15:10-15:30	Serpin-4 negatively regulates prophenoloxidase activation and antimicrobial peptide synthesis in the silkworm, <i>Bombyx mori</i> . Li Ma , Shanxi Agricultural University, China
15:30-15:50	Isolation and genomic analysis of <i>Chromobacterium haemolyticum</i> 0013 that kills mosquito larvae. Zhiwei Kang , Hebei University, China
15:50-16:10	Coffee break
16:10-16:30	β -D-N4-hydroxycytidine (NHC, EIDD-1931) inhibits chikungunya virus replication in mosquito cells and ex vivo <i>Aedes aegypti</i> midguts, but not when ingested during blood feeding. Lanjiao Wang , Rega Institute of KU Leuven, Belgium
16:30-16:50	Mechanisms of exosome-mediated transmission of rice stripe virus. Jiaming Zhu , Institute of Zoology, Chinese Academy of Sciences, China
16:50-17:10	A widespread presence bunyavirus promote the development of aphid embryos. Xin An , Southwest University, China
17:10-17:30	Third-generation sequencing PacBio HiFi technology decodes the mysteries of insect genomes. Applied Technology Manager , Gene Company Limited

Session 4

Insect Behavior-Neurobiology, Genetics, Genomics and Phylogeny

Chair: Juan Du (杜娟), Yukinori Hirano, Weiwei Liu (刘薇薇), and Zhangwu Zhao (赵章武)

Monday, August 7 Location: 卓正蓝湾厅 (Lanwan Hall in Zhuozheng Hotel)

14:00-14:25	Visual-based decision making in locust collective motion. Amir Ayali , Tel Aviv University, Israel
14:25-14:50	Neuro-glial basis of phobia development. Yukinori Hirano , The Hong Kong University of Science and Technology, China
14:50-15:10	The leukokinin receptor regulate meal size in the Asian honeybee. Shiqi Luo , China Agricultural University, China
15:10-15:30	Forest degradation drive activity changes in tropical forest butterflies through hotter and brighter microclimates. Shuang Xing , Sun Yat-sen University, China
15:30-15:50	Single-cell transcriptomics to track the neural basis of division of labour in an eusocial ant. Pei Zhang , BGI-Shenzhen, China
15:50-16:05	Coffee break
16:05-16:25	Translational regulation of locust behavior plasticity. Liya Wei , Hebei University, China
16:25-16:45	Courtship behavior and sex pheromone detection in a parasitoid, <i>Campoletis chloridae</i> . Hao Guo , Hebei University, China
16:45-17:00	The vitellogenin receptor gene contributes to mating and host-searching behaviors in parasitoid wasps. Yifeng Sheng , Zhejiang University, China
17:00-17:15	Molecular mechanism of post-mating response of female brown planthopper. Yijie Zhang , Nanjing Agricultural University, China
17:15-17:30	HSP70s mediate phase transition of Period to regulate the effects of temperature on circadian rhythm. Xianguo Zhao , China Agricultural University, China
17:30-17:45	Anatomy and neuronal function identification of gnathal ganglion in <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae). Longlong Sun , Henan Agricultural University, China
17:45-18:00	Neuroendocrine regulation of monoamine neurotransmitters in the honey bee brain, insights from single-cell nucleus transcriptomic analysis. Miaoran Zhang , Jilin University, China

Session 5

Insect Development and Evolution of Phenotypic Plasticity

Chair: Haijun Xu (徐海君) and Yonggang Hu (胡永刚)

Monday, August 7 Location: 希尔顿中际厅 (Zhongji Hall in Hilton Hotel)

14:00-14:20	miR-252 targeting temperature receptor CcTRPM to mediate the transition from summer-form to winter-form of <i>Cacopsylla chinensis</i> . Songdou Zhang , China Agricultural University, China
14:20-14:40	Phenotypic plasticity in locusts. Meiling Yang , Capital Normal University, China
14:40-15:00	The transcription factor Zfh1 acts as a wing-morph switch in planthoppers. Jinli Zhang , Zhejiang University, China
15:00-15:20	An evolutionary conserved pathway mediated by neuropasin in reproductive role differentiation of ants. Xiafang Zhang , Kunming Institute of zoology, CAS, China
15:20-15:40	A major life-history allele shortens developmental time in insects. Shixiong Cheng , Leiden University, Netherlands
15:40-15:55	The role of microRNA-mediated ceRNA regulatory networks in the caste differentiation of honeybee Yunchang Li , Institute of Apicultural Research, Chinese Academy of Agricultural Sciences, China
15:55-16:10	Coffee break
16:10-16:30	To mate or not to mate, this is a problem of chemosensory. Xin Yi , South China Agricultural University, China
16:30-16:50	Cellular and molecular mechanisms mediating caste differentiation in ants. Qiye Li , BGI-Research, China
16:50-17:10	Jinggangmycin-induced AKH/ILP3-TOR signaling regulates the fecundity and population in <i>Nilaparvata lugens</i> Stål (Hemiptera: Delphacidae). Zhirou Duan , Yangzhou University, China
17:10-17:30	A novel gene REPTOR2 activates the autophagic degradation of wing disc in pea aphid. Erliang Yuan , Institute of Zoology, Chinese Academy of Sciences, China
17:30-17:50	PBAN signal transduction in moths. Shiheng An , Henan Agricultural University, China
17:50-18:05	Isolation and identification of a <i>Pantoea agglomerans</i> PxG45 from <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) gut and its antifungal activity. Dongran Fu , South China Agricultural University, China

Session 6**Functional Genomics in Chemical Ecology**

Chair: Guirong Wang (王桂荣) and Emmanuelle Joly

Monday, August 7 Location: 卓正莲池厅 (Lianchi Hall in Zhuozheng Hotel)

14:00-14:25	Functional genomics and reverse chemical ecology in a moth: identification of new behaviorally active semiochemicals. Jacquin-Joly Emmanuelle , iEES-Paris, France
14:25-14:50	A conserved olfactory mechanism mediates plant-based repellency in culicine mosquitoes. Johatan Bohbot , the Hebrew University of Jerusalem, Israel
14:50-15:15	Understanding mosquito smell system: a new frontier in mosquito control. Wei Xu , Murdoch University, Australia
15:15-15:35	Cross-generation pheromonal communication drives <i>Drosophila</i> oviposition site choice. Liwei Zhang , China Agricultural University, China
15:35-15:50	Attraction and avoidance of noctuids to fermented food sources are coordinated by distinct olfactory receptors. Xiao-Qing Hou , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
15:50-16:10	Coffee break
16:10-16:35	A tale of two copies: evolutionary trajectories of moth pheromone receptors. Camille Meslin , ECOSENS, France
16:35-17:00	Odor-guided behavior in a hawkmoth. Jin Zhang , Nanjing Agricultural University, China
17:00-17:15	A female-specific odorant receptor tuned to egg-surface odorants mediating oviposition deterrence in <i>Helicoverpa armigera</i> . Xiaxuan Zhang , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
17:15-17:30	Sex pheromone recognition of the fall armyworm <i>Spodoptera frugiperda</i> . Sai Zhang , Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
17:30-17:45	Two odorant receptors regulate benzothiazole induced oviposition behavior in <i>Bactrocera dorsalis</i> . Li Xu , Southwest University, China
17:45-18:00	Identification and functional characterization of pheromone receptors in <i>Athetis lepigone</i> (Lepidoptera: Noctuidae). Yiping Fan , Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

Session 7

Insect Genomics and Evolution

Chair: Guirong Wang (王桂荣), Yongping Huang (黄勇平), and Xianhui Wang (王宪辉)

Tuesday, August 8 Location: 希尔顿逸林厅 1/3 (Yilin Hall in Hilton Hotel)

8:30-8:50	Functional motifs defining insect kidney function by sn-RNA sequencing. Jun Xu , CAS Center for Excellence in Molecular Plant Sciences, China
8:50-9:10	The evolution of environmental adaptability of agricultural pests. Yutao Xiao , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
9:10-9:25	Genomes of the tree of heaven and its' two weevils herbivores Wei Song , Beijing Forestry University, China
9:25-9:40	Genome dynamics during extremely rapid adaptive evolution in silent Hawaiian crickets. Xiao Zhang , Tianjin Normal University, China
9:40-9:55	Global genomic signature reveals the evolution of fall armyworm in the Eastern. Lei Zhang , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
9:55-10:10	Behavioral and genomic divergence between a generalist and a specialist fly. Yaohui Wang , Anhui Agricultural University, China
10:10-10:30	Coffee break
10:30-10:45	Genome assembly and comparative analysis of the egg parasitoid wasp <i>Trichogramma dendrolimi</i> shed light on the composition and evolution of olfactory receptors and venoms Ying Hu , Jilin Agricultural University, China
10:45-11:00	Energy metabolism of insect flight: insights and mechanisms. Li Hou , Institute of Zoology, Chinese Academy of Sciences, China
11:00-11:15	Advancing functional genomics study in the fall armyworm: From transgenesis to gene editing. Xien Chen , Northwest A&F University, China
11:15-11:25	Preliminary study on the structural and genetic basis of the genesis of pseudogerm in <i>Macrocentrus cingulum</i> . Yuanshi Cai , Sun Yat-sen University, China
11:25-11:35	Juvenile hormone analog methoprene works through the MEKRE93 pathway to block adult emergence in yellow fever mosquito, <i>Aedes aegypti</i> . Guan-Heng Zhu , Sun Yat-sen University, China
11:35-11:45	Population genomics provide insights into the evolution and adaptation of the Asia corn borer. Yan Peng , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
11:45-11:55	Genome sequencing and genetic diversity of <i>Psylliodes attenuate</i> . Litao Guo , Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences, China
11:55-12:05	Horizontal gene transfer and duplication of β -fructofuranosidase confers evolutionary advantages on lepidopteran insects Huabing Wang , Zhejiang University, China

Session 8 Insect-Plant Interactions

Chair: Jiancai Li (李建彩), Yazhou Chen (陈亚州), and Betty Benrey

Tuesday, August 8 Location: 希尔顿中际厅 (Zhongji Hall in Hilton Hotel)

8:30-8:50	Molecular mechanisms underlying the recognition of plant-insect interactions. Yingbo Mao , CAS Center for Excellence in Molecular Plant Sciences, China
8:50-9:10	Nano-selenium promotes the product quality and plant defense of <i>Salvia miltiorrhiza</i> by inducing tanshinones and salvianolic acids accumulation. Hongxing Xu , Shaanxi Normal University, China
9:10-9:30	<i>Helicoverpa armigera</i> effector PPI targets and inhibits Cyclophilin GhFKBP17-2 to modulate plant JA responses and promote insect feeding. Yaxin Wang , Huazhong Agricultural University, China
9:30-9:50	Reduction in the profitability of insect-resistant rice cultivars: The eco-evolutionary consequence of insecticide resistance in the brown planthopper. Rui Pang , South China Agricultural University, China
9:50-10:10	Evolution of invasive plants against herbivory. Xiao Sun , Henan University, China
10:10-10:30	Coffee break
10:30-10:50	The domestication of squash: Consequences for plant defense and trophic interactions. Betty Benrey , University of Neuchâtel, Switzerland
10:50-11:10	Trade-offs between maize cuticular wax accumulation and JA-mediated herbivore resistance. Xi Zhang , Henan University, China
11:10-11:30	Vector-borne diseases and climate change. Mubasher Hussain , Institute of Zoology, Guangdong Academy of Sciences, China
11:30-11:50	A tripartite rheostat controls self-regulated host-plant resistance to insect. Jianping Guo , Wuhan University, China

Session 9

Insect RNAi: progress and prospects

Chair: T.-X. Liu and Guy Smagghe

Tuesday, August 8 Location: 希尔顿国槐玉兰厅 (Guohuai Yulan in Hilton Hotel)

8:30-8:50	Enhancing animal protection: topical RNAi with innovative nanotechnology for sustainable animal health. Yunjia Yang , The University of Queensland, Australia
8:50-9:10	The key factors limiting RNAi efficiency in insects. Jianzhen Zhang , Shanxi University, China
9:10-9:30	Mechanism and application of plastid-mediated RNA interference for pest control. Jiang Zhang , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
9:30-9:50	Influence of diverse storage conditions of double-stranded RNA in vitro on the RNA interference efficiency <i>in vivo</i> insect <i>Tribolium castaneum</i> . Hong-Gang Tian , Northwest A&F University, China
9:50-10:10	RNAi strategies for controlling Asian citrus psyllid, the vector of the Huanglongbing pathogen. Xiudao Yu , Gannan Normal University, China
10:10-10:30	Coffee break
10:30-10:50	Fusion dsRNA design can enhance the aphid control capacity upon RNAi-based strategy. Ziguo Wang , Southwest University, China
10:50-11:10	RNAi to study N-glycosylation genes function in insect growth and development. Guy Smagghe , Guizhou University, China
11:10-11:30	Innovative RNAi biopesticides for management of sugarcane root feeding pests Ivy W. Chen , the University of Queensland, Australia
11:30-11:50	Endocytosis mechanism of dsRNA in fat body cells in <i>Locusta migratoria</i> Lin Yang , Shanxi university, China
11:50-12:10	RNAi-based biological control: a strategy in exploring the synergy of RNAi and biological control Jinzhi Niu , Southwest University, China

Session 10

Social Insects: Behavior and Evolution

Chair: Yongyue Lu (陆永跃) and Youming Hou (侯有明)

Tuesday, August 8 Location: 希尔顿水杉永昌厅 (Shuishan Yongchang Hall in Hilton Hotel)

8:30-8:50	Molecular analysis of the associated microbiota of the red imported fire ant, <i>Solenopsis invicta</i> : identifying their roles in host responses to biocontrol agents. Bamisope Steve Bamisile , South China Agricultural University, China
8:50-9:10	Study on the molecular mechanism of worker behavioral transition in the red imported fire ant, <i>Solenopsis invicta</i> . Jie Chen , Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences, China
9:10-9:30	The methods for controlling red imported fire ants <i>Solenopsis invicta</i> in winter. Youming Hou , Fujian Agriculture and Forestry University, China
9:30-9:50	Developing a reliable measurement of Critical Thermal maximum and its ecological applications: a study of ants. Leong ChiMan , Beijing Normal University-Hong Kong Baptist University United International College, China
9:50-10:10	The application of entomopathogenic nematode modified the microbial communities within the nesting mound of the red imported fire ants, <i>Solenopsis invicta</i> . Xiaowei Li , Institute of Plant Protection and Microbiology, Zhejiang Academy of Agricultural Sciences, China
10:10-10:30	Coffee break
10:30-10:50	Modelling suppression gene drive for invasive <i>Solenopsis invicta</i> fire ants. Yiran Liu , Peking University, China
10:50-11:05	Chemistry and biological activities of fire ant venom alkaloids. Guangxin Xu , Hebei University, China
11:05-11:20	Potential of insect cadaver infected with entomopathogenic nematodes as a biocontrol agent against <i>Solenopsis invicta</i> . Shengyen Wu , Fujian Agriculture and Forestry University, China
11:20-11:35	Division of labor among worker bees is associated with the lipidomic plasticity in their brains Yue Hao , Institute of Apicultural Research, Chinese Academy of Agricultural Sciences, China
11:35-11:50	10-Hydroxy-2-decanoic acid inhibits bacteria by altering the expression of small RNAs Zhenyu Xia , Chinese Academy of Agricultural Sciences, China
11:50-12:05	Regulatory role of 5-HT1A receptor in flight behavior of the bumblebee (<i>Bombus terrestris</i>) workers under hypoxia Chunyan Jiang , Hebei University, China

Session 11

Insect Physiology, Biochemistry and Molecular Biology

Chair: Fei Li (李飞) and 吴少英 (Shaoying Wu)

Tuesday, August 8 Location: 卓正莲池厅 (Lianchi Hall in Zhuozheng Hotel)

8:30-8:50	Gustatory Perception of Plant Metabolites of the polyphagous caterpillars <i>Helicoverpa armigera</i> : From Peripheral to Central Nervous System. Qing-Bo Tang , Henan Agricultural University, China
8:50-9:10	Functional identification of antennal trichoid sensilla I of <i>Plutella xylostella</i> (L.) to the sex pheromone. Xiaofei Li , Shanxi University, China
9:10-9:30	Nicotinic acetylcholine receptor mediate neonicotinoids resistance in thrips. Fen Li , Hainan University, China
9:30-9:45	Different spliceosomes and two mutations of glutamate-gated chloride channels are associated with abamectin resistance. Shuai Wang , Nanjing Agricultural University, China
9:45-10:00	RNA sequencing identifies microRNAs involved in lipid metabolism and reproduction in <i>Bactrocera dorsalis</i> . Weiwei Zheng , Huazhong Agricultural University, China
10:00-10:20	Coffee break
10:20-10:40	Azadirachtin inhibits HR3 in the prothoracic gland to block larval ecdysis in fall armyworm, <i>Spodoptera frugiperda</i> . Shu-Ting Fan , Sun-Yat Sen University, China
10:40-11:00	Functional studies on the key gene TH and yellow-y of melanin pathway of <i>Gryllus bimaculatus</i> . Yun Bai , East China Normal University, China
11:00-11:15	Jinggangmycin-induced AKH/ILP3-TOR signaling regulates the fecundity and population in <i>Nilaparvata lugens</i> Stål (Hemiptera: Delphacidae) Zhirou Duan , Yangzhou University, China
11:15-11:30	The black gene mediated body pigmentation and courtship in the German cockroach, <i>Blattella germanica</i> . Langlang Gong , Guizhou University, China
11:30-11:45	Fungal insecticides enhance <i>S. frugiperda</i> susceptibility to chemical insecticides Yulu Lou , Guizhou University, China
11:45-12:00	Efficient DIPA-CRISPR mediated knockout an eye pigment gene in the white-backed planthopper, <i>Sogatella furcifera</i> (Horváth) Mengqi Zhang , Guizhou University, China
12:00-14:00	Lunch time
14:00-14:20	The histone acetyltransferase P300/CBP regulates preparation of reproductive diapause through JH pathway in the cabbage beetle, <i>Colaphellus bowringi</i> . Hao-Min An , Huazhong Agricultural University, China
14:20-14:40	Prey adaptation mechanisms in ladybirds: A new insight from post-transcriptional regulation.

	Yuchen Yang , Sun Yat-sen University, China
14:40-15:00	Chronic cadmium exposure impairs flight behavior by dampening flight muscle carbon metabolism in bumblebees. Shen Gao , Hebei University, China
15:00-15:20	Longevity of workers in winter tuned finely from not only transfer but also remodeling of genomic mCpG patterns in germline of honeybee (<i>Apis mellifera</i>). Xingan Li , Jilin Provincial Institute of Apicultural Sciences, China
15:20-15:35	A CTL-Lys immune function maintains gut homeostasis to limit opportunistic infections and promotes insect metamorphosis. Jialin Wang , Central China Normal University, China
15:35-15:50	Efficient nanoparticle-based CRISPR-Cas13d induced mRNA disruption of an eye pigmentation gene in the white-backed planthopper, <i>Sogatella furcifera</i> (Horváth). Yunfeng Ma , Guizhou University, China
15:50-16:10	Coffee break
16:10-16:30	Construction and application of the database for structural and functional prediction of insect olfactory receptors (iORbase). Hui-Meng Lu , Northwestern Polytechnical University, China
16:30-16:50	Functional characterization of knockdown resistance mutation L1014S in the German cockroach, <i>Blattella germanica</i> (Linnaeus). Kaiyang Liu , Hainan University, China
16:50-17:10	Male vitellogenin regulates reproduction by maintaining testosterone synthesis in <i>Chrysopa pallens</i> . Jianjun Mao , Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
17:10-17:30	First report on transferrin in ticks: Cloning, expression pattern and its functions in vitro and in vivo. Duo Wang , Hebei Normal University, China
17:30-17:50	microRNA-7322-5p/p38/Hsp19 axis modulates <i>Chilo suppressalis</i> cell-defenses against Cry1Ca. Yan Wu , Huazhong Agricultural University, China

Session 12

Insect Microbiome

Chair: Sibao Wang (王四宝), Xiaoyue Hong (洪晓月), Junbo Luan (栾军波), and Hao Zheng (郑浩)

Tuesday, August 8 Location: 卓正蓝湾厅 (Lanwan Hall in Zhuozheng Hotel)

8:30-8:50	Parallel evolution of Bacteroidota (re) establishing obligate symbioses with scale insects. Filip Husnik , Okinawa Institute of Science and Technology Graduate University, Japan
8:50-9:10	Endosymbionts' manipulation on the reproduction of rice planthoppers. Xiaoyue Hong , Nanjing Agricultural University, China
9:10-9:30	The molecular and cellular basis of symbiont inheritance-insect reproduction integration. Jun-Bo Luan , Shenyang Agricultural University, China
9:30-9:50	The influence of tryptophan metabolism on Plasmodium transmission in mosquitoes. Jingwen Wang , Fudan University, China
9:50-10:10	Role of functional microbes in a whole industrial chain of black soldier fly larvae. Jibin Zhang , Huazhong Agricultural University, China
10:10-10:30	Coffee break
10:30-10:50	Rickettsiella endosymbionts and aphid pest control. Ary Hoffmann , the University of Melbourne, Australia
10:50-11:10	Nitrogen metabolism in nutritional symbiosis between herbivorous ants and their symbiotic bacteria. Yi Hu , Beijing Normal University, China
11:10-11:30	Microbial diversity in the gut of grasshoppers and screening of cellulolytic bacteria. Wenjing Li , Hebei University, China
11:30-11:50	<i>Corchorus olitorius</i> nanocrystalline cellulose inhibits Israeli acute paralysis virus infection via gut microbiota and metabolism. Yanchun Deng , Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences, China
11:50-12:10	An olfactory protein-mediated immune interaction between the insect host and entomopathogenic fungi. Wei Zhang , Guizhou University, China
12:10-14:00	Lunch Time
14:00-14:20	A diversity of endosymbionts across Australian aphids and regional variation of endosymbionts in the green peach aphid, <i>Myzus persicae</i> . Qiong Yang , the University of Melbourne, Australia
14:20-14:40	Dissecting a growth-defense tradeoff involving insect-endosymbiont-microbe interactions. Weibin Jiang , Shanghai Normal University, China
14:40-15:00	Epigenetic regulatory pathways control appressorium formation and function of an insect pathogenic fungus. Yiling Lai , Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, China

15:00-15:20	Study on gut microbiota regulate host ovarian development via DNA m6A methylation in <i>Bactrocera dorsalis</i> . Qiuyuan Zhang , Huazhong Agricultural University, China
15:20-15:35	Uninheritable but widespread bacterial symbiont mediates insecticide detoxification of invasive <i>Spodoptera frugiperda</i> . Yunhua Zhang , Westlake University, China
15:35-15:50	Identification of culturable fungi and bacteria in mosquito saliva and impact on arbovirus infection in vitro. Lanjiao Wang , Rega Institute of KU Leuven, Belgium
15:50-16:10	Coffee break
16:10-16:30	A mosquito symbiotic bacterium employs extracellular vesicles to deliver anti-Plasmodium effector for targeted killing of malaria parasites. Han Gao , CAS Center for Excellence in Molecular Plant Sciences, China
16:30-16:50	Mitigation of antibiotic resistome in swine manure by black soldier fly larval conversion. Minmin Cai , Huazhong Agricultural University, China
16:50-17:10	Engineered gut symbiont inhibits microsporidian parasite and improves honey bee survival. Qiang Huang , Jiangxi Agricultural University, China
17:10-17:30	Publication in Wiley-Insect Science and more Taolan Zhao , Insect Science, China

Session 13

Insect Chemical Ecology

Chair: Li Chen (陈立) and Jianghua Sun (孙江华)

Tuesday, August 8 Location: 希尔顿中际厅 (Zhongji Hall in Hilton Hotel)

14:00-14:20	Finding a safe space: A butterfly odorant receptor that allows for selecting optimal host plants and avoiding perilous parasitoids. Qi Wang , Wageningen University & Research, Netherlands
14:20-14:40	An odorant receptor mediated repellency of tea tree oil in <i>Aedes aegypti</i> . Mengli Chen , Zhejiang A and F University, China
14:40-15:00	Mutagenesis of the odorant receptor co-receptor (Orco) reveals severe olfactory defects in the crop pest moth <i>Helicoverpa armigera</i> . Xiaobin Fan , Institute of Zoology, Chinese Academy of Sciences, China
15:00-15:20	An olfactory 'ghost' tandem in the ghost moth. Rui Tang , Institute of Zoology, Guangdong Academy of Sciences, China
15:20-15:35	Two transcriptional cascades orchestrate cockroach leg regeneration. Chonghua Ren , South China Normal University, China
15:35-15:50	Molecular characterization of chemosensory protein genes in <i>Aphidius gifuensis</i> . Jun Jiang , Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
15:50-16:10	Coffee break
16:10-16:30	Attraction of non-methyl eugenol-attracted males of the oriental fruit fly, <i>Bactrocera dorsalis</i> to beta-caryophyllene. Alvin Kah Wei Hee , University Putra Malaysia, Malaysia
16:30-16:50	The threat of the fall armyworm to Asian rice production is amplified by the brown planthopper. Yunhe Li , Henan University, China
16:50-17:05	Using multicomponent pheromone lures as tools for monitoring biodiversity and to better understand cerambycid beetle ecology in a tropical rainforest. Jacob Wickham , Severstov Institute of Ecology and Evolution, Russian Academy of Sciences, Russia
17:05-17:25	Chemical polymorphism of the bean bug <i>Riptortus pedestris</i> (Fab.): from chemical ecology studies to an IPM strategy. Hao Xu , Nanjing Agricultural University, China
17:25-17:40	The detoxification mechanism of <i>Spodoptera frugiperda</i> to DIMBOA, a main insect-resistant compound in maize. Jing Song , Henan University, China
17:40-17:55	Interaction of ocnus and dany may regulate the spermatogenesis in <i>Drosophila melanogaster</i> . Yue Ren , Central China Normal University, China

Session 14 Molecular Systematics

Chair: Chaodong Zhu (朱朝东), Arong Luo (罗阿蓉), Douglas Chestes, and Feng Zhang (张峰)

Tuesday, August 8 Location: 希尔顿逸林厅 1/3 (Yilin Hall in Hilton Hotel)

14:00-14:25	A mysterious treasure originated from Africa: Evolutionary history of the endangered spoon-winged lacewings from China. Xingyue Liu , China Agricultural University, China
14:25-14:50	Deep and shallow diversification of flightless grasshoppers on the Qinghai-Tibet Plateau Huateng Huang , Shanxi Normal University, China
14:50-15:10	Phylogeny of Calyptratae (Diptera) in the light of phylogenomics. Liping Yan , Beijing Forestry University, China
15:10-15:30	Insect synthesis phylogenetics and practical application in molecular community ecology. Tingting Xie , Institute of Zoology, Chinese Academy of Sciences, China
15:30-15:50	“Scale-dependent sink-source” mechanisms help explain the assembly of regional biodiversity hotspots for hawkmoths (Lepidoptera, Sphingidae) in South China. Ying Wang , Capital Normal University, China
15:50-16:10	Coffee break
16:10-16:30	Phylogenomics and beyond: multiple uses of anchored-hybrid sequence data from sap-sucking herbivores. Yanghui Cao , Northwest A&F University, China
16:30-16:50	Site-based metagenomic analysis of global biodiversity patterns of leaf beetles. Ruie Nie , Anhui Normal University, China
16:50-17:10	Integrated phylogenomic and Sanger data shed light on the phylogeny of gracillariid leaf-mining moths and the evolution of their larval behaviour. Xuankun Li , China Agricultural University, China
17:10-17:30	Disentangling the jumping spider tree of life with UCE phylogenomics (Araneae: Salticidae). Junxia Zhang , Hebei University, China
17:30-17:50	The evolutionary basis of eastern honeybee’s sub-speciation. Shanlin Liu, China Agricultural University, China

Session 15

Insect Invasion and Management

Chair: Zhihong Li (李志红), Alvin Hee, and Shujun Wei (魏书军)

Tuesday, August 8 Location: 希尔顿水杉永昌厅 (Shuishan Yongchang Hall in Hilton Hotel)

14:00-14:25	Genomic features of native range populations related to invasiveness of two moth pests. Shujun Wei , Institute of Plant Protection, Beijing Academy of Agriculture and Forestry Sciences, China
14:25-14:50	Evaluation of a methyl eugenol-mixed Diet as pre-release treatment for simultaneous application of male annihilation and sterile insect techniques against <i>Bactrocera dorsalis</i> . Wee Suk Ling , University Kebangsaan Malaysia, Malaysia
14:50-15:05	Genomic investigations of demography and pesticide resistance evolution in an invasive mite pest. Joshua Thia , University of Melbourne, Australia
15:05-15:20	CRISPR/Cas9-mediated mutagenesis of sex-specific doublesex splicing variants leads to sterility in <i>Spodoptera frugiperda</i> , a global invasive pest. Junwen Gu , Shenyang Agricultural University, China
15:20-15:35	Adaptive evolution to the natural and anthropogenic environment in a global invasive crop pest, the cotton bollworm. Minghui Jin , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China
15:35-15:50	The spatial distribution of insecticide resistance mutations is congruent with migration trajectories of the diamondback moth <i>Plutella xylostella</i> in China. Xiujing Shen , Institute of Plant Protection, Beijing Academy of Agriculture and Forestry Sciences, China
15:50-16:10	Coffee break
16:10-16:25	New record and rapid identification methods of the economically important fruit fly, <i>Bactrocera correcta</i> (Diptera: Tephritidae). Weisong Li , China Agricultural University, China
16:25-16:40	Population genetic admixture linked to range expansions of a fruit fly. Yiting Wang , Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
16:40-16:55	Different heat shock protein genes effect the low temperature tolerance of two invasive tephritids. Yuning Wang , China Agricultural University, China
16:55-17:10	Linking genomic data and phenotypic variation across the geographical range of an invasive agricultural pest. Lijun Ma , Institute of Plant Protection, Beijing Academy of Agriculture and Forestry Sciences, China
17:10-17:25	Global patterns of genomic and phenotypic variation in the invasive harlequin ladybird. Hongran Li , Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, China

17:25-17:40	First comparative investigation of the mycobiome and metabolomics of ash trees (Fraxinus spp) resistant and susceptible against highly invasive emerald ash borer. Tuuli Koski , Hebei University, China
17:40-17:55	Research methodology for the phytosanitary irradiation of mealybugs: case study on <i>Pseudococcus baliteus</i> vs. <i>Planococcus lilacinus</i> (Hemiptera: Pseudococcidae). Qingying Zhao , Murdoch University, Australia

Session 16

Insect Cuticle: Biology and Pest Management

Chair: Qing Yang (杨青), Jianzhen Zhang (张建珍), Bernard Moussion, and Kun Yan Zhu

Tuesday, August 8 Location: 希尔顿国槐玉兰厅 (Guohuai Yulan Hall in Hilton Hotel)

14:00-14:20	Analysis of the intestinal peritrophic matrix barrier of the red flour beetle, <i>Tribolium castaneum</i> . Hans Merzendorfer , University of Siegen, Germany
14:20-14:40	The dityrosine layer of the insect cuticle. Bernard Moussian , Université Côte d'Azur, France
14:40-15:00	A synergetic designed and discovery of novel rhodanine inhibitors targeting of ChtI based on π -Stacking effect and aqueous solubility. Hongxia Duan , China Agricultural University, China
15:00-15:20	The synergy among insect chitinases during chitin degradation. Mingbo Qu , Dalian University of Technology, China
15:20-15:40	A nuclear receptor HR4 is essential for the formation of epidermal cuticle in <i>Locusta migratoria</i> . Xiaojian Liu , Shanxi University, China
15:40-15:50	An oenocyte specific FAR (fatty acyl-Coa reductase) is responsible for hydrocarbon biosynthesis and cuticular permeability in <i>Locusta migratoria</i> . Hongfang Guo , Shanxi University, China
15:50-16:10	Coffee break
16:10-16:30	Investigating the role of the ROS/CncC signaling pathway in the adaptation of <i>Spodoptera frugiperda</i> to plant allelochemicals and insecticides using Sf9 cells. Gaëlle Le Goff , Université Côte d'Azur, France
16:30-16:50	Nanoparticles - mediated entomotoxicology: lessons from biological. Abeer El Wakil , Alexandria University, Egypt
16:50-17:10	CncC and Maf participate in the insecticide detoxification by regulating the expression of CYP450 and UGT family genes in <i>Locusta migratoria</i> . Xueyao Zhang , Shanxi University, China
17:10-17:30	A classic selectable marker does not affect antennal electrophysiology but strongly regulates reproductive behaviors in <i>Bactrocera dorsalis</i> . Yan Zhang , Ecological center, Chinese Academy of Agricultural Sciences, China
17:30-17:40	Effects of ultraviolet-absorbing film on cowpea (<i>Vigna unguiculata</i>) and its pests. Jinhai Feng , Hainan university, China
17:40-17:50	Functional studies on sodium channel receptor-mediated resistance to pyrethroids in <i>Megalurothrips usitatus</i> (Bagnall) Likui Wang , Hainan university, China