

APACE

Hangzhou, China
Oct. 9-13, 2019

PROGRAM



Painted&Designed by Yuebai Zhang



杭州地铁湘湖站
Hangzhou Metro Xianghu Station



杭州烂苹果乐园
Hangzhou Crazy Appleland



第一世界休闲酒店



中餐厅包厢区
Chinese restaurant
Private Room

湘湖厅
Xiang HU
Restaurant

望湖厅
Wang Hu Restaurant

南国厅
Nan Guo
Restaurant

烂苹果欢乐餐厅
Crazy Appleland
Restaurant

丛林餐厅
Jungle Restaurant

泰香阁餐厅
Thai Restaurant

雨林餐厅
Rainforest Restaurant



杭州乐园
Hangzhou Paradise

游客中心售票处
Tourist Center Ticket Office

游客服务中心
Tourist Service Center

西通道
West Passageway

热带雨林中庭
Tropical rainforest atrium

健身中心
Fitness Center

东通道
East Passageway

东大堂
East Lobby

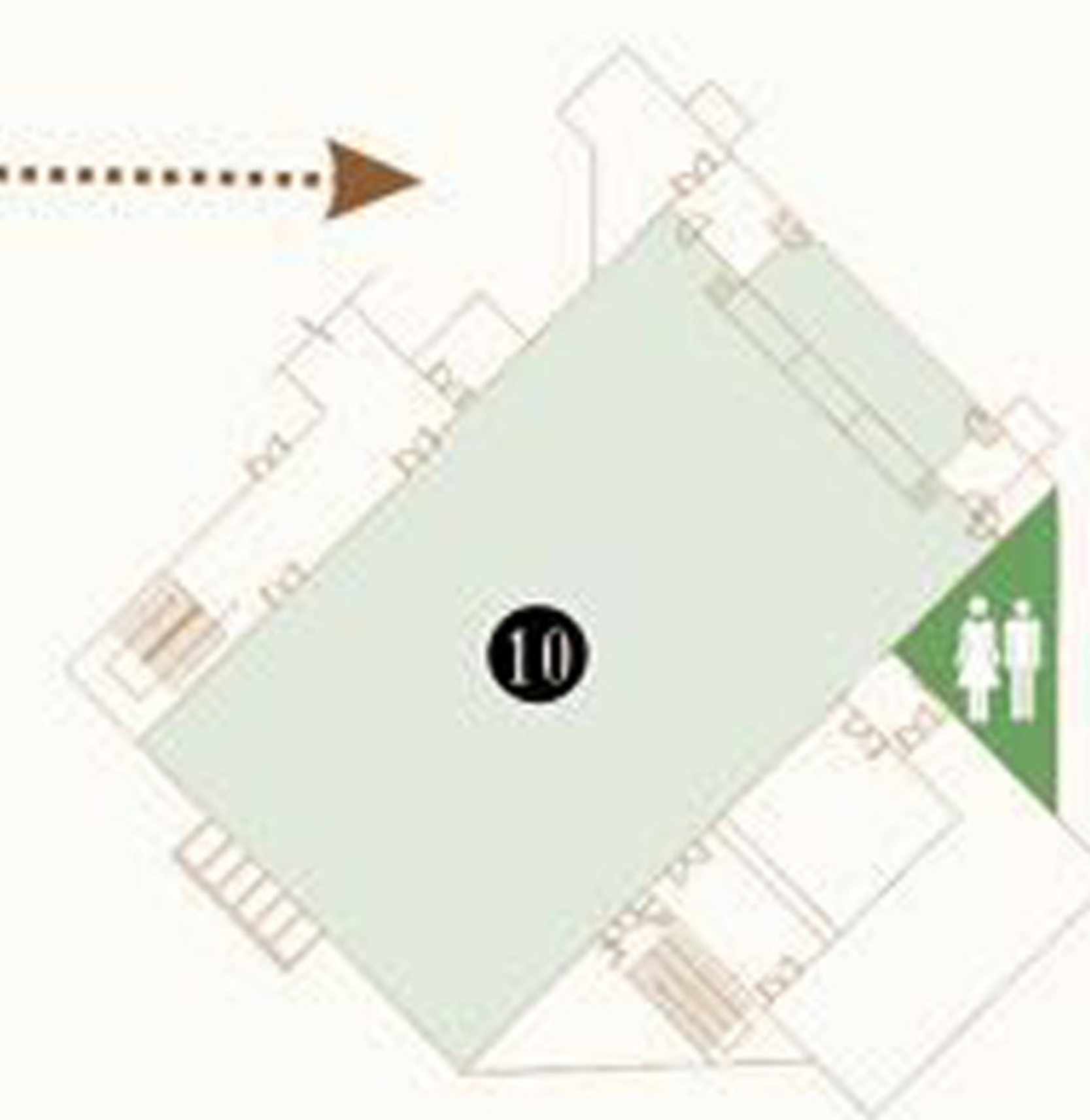
电梯5F直达



第一世界KTV
The First World KTV

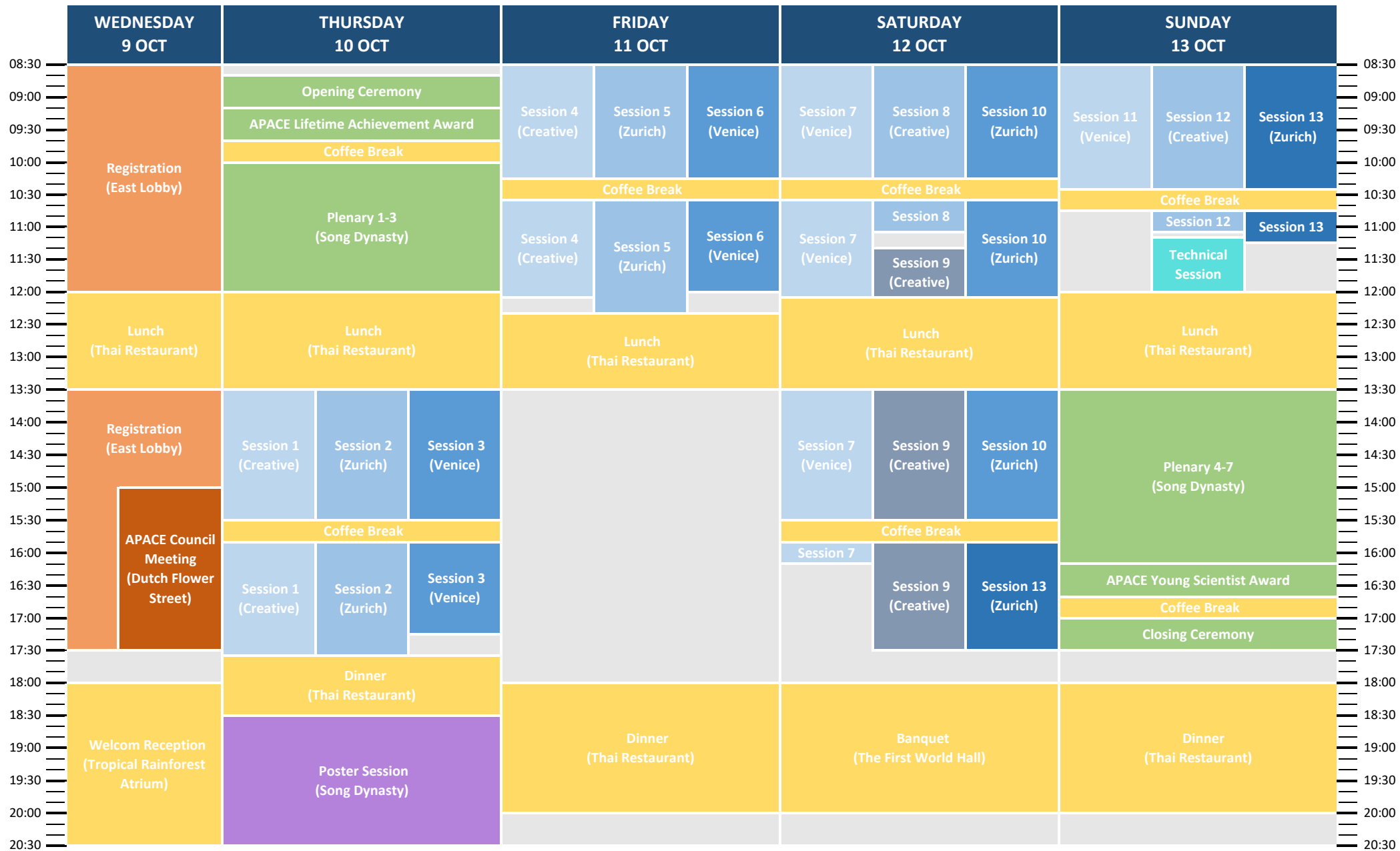
东门停车场
East Parking Lots

2F



酒店平面图

- | | | |
|---------------------------------|-------------------------------|---------------------------------|
| ① 中国渔村
China Fishing Village | ⑤ 荷兰花街
Dutch Flower Street | ⑨ 威尼斯
Venice |
| ② 渔人码头
Fisher Wharf | ⑥ 山里人家
Submontane Village | ⑩ 宋城厅
Song Dynasty |
| ③ 乐园厅
Paradise Hall | ⑦ 创意城
Creative City | ⑪ 第一世界厅
The First World Hall |
| ④ 龙泉山
Longquan Mountain | ⑧ 苏黎士
Zurich | ⑫ 贵宾厅
VIP Hall |



Plenary 1

October 10 (Thu.) Room: Song Dynasty

08:40-09:10	Opening Ceremony
09:10-09:40	APACE Lifetime achievement award Back to the future: bugs, lures and toilet paper Eric Jang
09:40-10:00	Coffee Break
10:00-10:40	Plenary 1 How do native plants simultaneously manage complicated ecological interactions? Ian T. Baldwin
10:40-11:20	Plenary 2 Biological production of moth pheromones in plant and cell factories Christer Löfstedt
11:20-12:00	Plenary 3 Functional integration of plant secondary metabolites across three trophic levels Matthias Erb

Plenary 2

October 13 (Sun.) Room: Song Dynasty

13:30-14:10	Plenary 4 New developments in our understanding of the use and misuse of herbivore-induced plant volatiles in insect-plant interactions Ted Turlings
14:10-14:50	Plenary 5 Unexpected origins of defensive compounds in animals Naoki Mori
14:50-15:30	Plenary 6 Sex determination genes and sexual behavior of silkworm Yongping Huang
15:30-16:10	Plenary 7 Something old, something new: caterpillar movement and feeding behaviour on whole plants-traversing a treacherous landscape Myron Zalucki
16:10-16:40	APACE Young Scientist Award Lepidopteran chemosensory gene repertoires: annotation, evolutionary and functional perspectives Naiyong Liu
16:40-17:00	Coffee Break
17:00-17:30	Closing Ceremony

Session 1

Understanding the mechanism and behavioural ecology of olfaction for improved control of fruit fly pests

October 10 (Thu.) Room: Creative City

Organizer Paul Cunningham and Alvin Kah-Wei Hee

13:35-13:55	Keynote Lecture Field evaluation of a new attract-and-kill trap for mated female Queensland fruit fly Paul Cunningham
13:55-14:15	Keynote Lecture Scents from the wild: The vinegar fly <i>Drosophila suzukii</i> prefers volatiles from wild than cultivated blueberries Cesar Rodriguez-Saona
14:15-14:35	Keynote Lecture An improved understanding on male fruit fly-phytochemical lure interactions benefitting fruit fly control Suk Ling Wee
14:35-14:55	Keynote Lecture Functional characterization of olfactory receptors in Dacini fruit flies (Diptera: Tephritidae) that respond to semiochemicals Hajime Ono
14:55-15:15	Keynote Lecture Identification of the odorant receptors responsible for methyl eugenol perception in the oriental fruit fly, <i>Bactrocera dorsalis</i> Li Xu
15:15-15:30	Proteome-transcriptome analysis of maxillary palp and antenna of male Oriental fruit fly following strong attraction to methyl eugenol Anna Chui-Ting Chieng
15:30-15:50	Coffee Break
15:50-16:05	Cross-species comparison of fruit fly olfactory sensitivity to host fruits as a way of exploring new attractive blends Vincent Jacob
16:05-16:20	Monitoring individual fruit fly responses to attractants using radio frequency identification Matthew Siderhurst
16:20-16:35	Olfactory learning and memory in the polyphagous frugivore, <i>Bactrocera tryoni</i> Rehan Silva
16:35-16:50	Olfactory cues of predators influence vital life processes of <i>Bactrocera tryoni</i> Vivek Kemparaju
16:50-17:05	Identification and field evaluation of male-produced sex pheromone of <i>Neoceratitis asiatica</i> (Becker) Yan Liu
17:05-17:20	Gut microbiota affects development and olfactory behavior in <i>Drosophila melanogaster</i> Huili Qiao
17:20-17:35	Identification of odorant binding proteins which binding with methyl eugenol and their function research in <i>Bactrocera dorsalis</i> Xiaofeng Chen

Session 2

Plant-mediated insect interactions

October 10 (Thu.) Room: Zurich

Organizer Ted Turlings and Yunhe Li

13:30-14:00	Keynote Lecture Effects of crop nutrition on anti-herbivore resistance Rensen Zeng
14:00-14:15	<i>Diabrotica virgifera virgifera</i> females can sequester multiple plant toxins to protect their eggs against predators Carla Arce
14:15-14:30	Plant volatiles as mate finding cues for insects Hao Xu
14:30-14:45	Volatiles from un-infested rice plants enhance the spread of the major rice pest, brown planthopper <i>Nilaparvata lugens</i> Stål Jingjiang Zhou
14:45-15:00	Chemical responses in plant-insect interaction of plant gall Shihong Luo
15:00-15:15	Understanding the dynamics of wheat chemical and physical defense mechanisms against aphids Vered Tzin
15:15-15:30	Ecological and biochemical mechanisms that determine the preference of <i>Nilaparvata lugens</i> for Bt over nonBt rice plants Yunhe Li
15:30-15:50	Coffee Break
15:50-16:05	Root herbivores require intact carbon dioxide and sugar perception for optimal foraging Ricardo Machado
16:05-16:20	Feeding preferences and taste responses to plant substances in two species of <i>Helicoverpa</i> caterpillars Qingbo Tang
16:20-16:35	Detoxification of Brassicaceae glucosinolates in multi-trophic interactions Ruo Sun
16:35-16:50	Aphid-borne viral spread is enhanced by virus-induced accumulation of plant reactive oxygen species Yucheng Sun
16:50-17:05	What omnivores don't eat: nonconsumptive ecological effects of phytophagy by <i>Macrolophus pygmaeus</i> Xiaoning Zhang
17:05-17:20	Anabolism of homoterpenes involved in indirect defense of <i>Gossypium hirsutum</i> Danfeng Liu
17:20-17:35	ER-body system in plant is involved in production of volatile compounds to suppress feeding motivation of insect: a model study using <i>Arabidopsis thaliana</i> and <i>Phormia regina</i> Mamiko Ozaki

Session 3

Signaling and perception in plant-herbivore interactions

October 10 (Thu.) Room: Venice

Organizer Matthias Erb and Yonggen Lou

13:30-13:55	A ligand-receptor pair for plant recognition of orally secreted elicitor peptides Adam Steinbrenner
13:55-14:15	The systemin receptor SYR1 enhances resistance of tomato against herbivorous insects Lei Wang
14:15-14:35	Integration of herbivore-induced plant volatiles into plant defense and resistance Lingfei Hu
14:35-14:55	Getting tuned: Understanding specificity in plant volatile signaling Silke Allmann
14:55-15:15	The oriental armyworm (<i>Mythimna separata</i>) feeding induces local and systemic defense responses within and between maize leaves Jinfeng Qi
15:15-15:35	Chemical cues linked to risk: plants and insect herbivores respond to chemical cues from entomopathogenic nematodes Anjel Helms
15:35-15:50	Coffee Break
15:50-16:15	Insights from the JA signaling cascade and down-stream defense responses into herbivore perception through AMF networks in the <i>Nicotiana attenuata</i> system Ian Baldwin
16:15-16:35	Expressing <i>OsMAPKb</i> increases rice resistance to BPH but accelerate rice senescence Xiaoli Liu
16:35-16:55	Systemic stomatal closure induced by herbivores is dependent on jasmonic acid-mediated synthesis of H ₂ O ₂ in guard cells Yibin Lin
16:55-17:15	Solar UV-B radiation and ethylene play a key role in modulating effective defenses against herbivore insects in field-grown soybean Jorge Zavala

Session 4

Molecular mechanism of pheromone detection in insects

October 11 (Fri.) Room: Creative City

Organizer Chenzhu Wang and Shuanglin Dong

08:30-09:00	Keynote Lecture A novel lineage of pheromone receptors for sex communication in moths Jacquin-Joly Emmanuelle
09:00-09:15	CRISPR/Cas9 mediated gene knockout reveals different contribution of three PBP genes in female sex pheromone perception in <i>Spodoptera litura</i> Shuanglin Dong
09:15-09:30	An odorant receptor mediates pheromone to regulate locust density Long Zhang
09:30-09:45	Genome-wide identification and functional study of chemosensory genes in three notorious rice planthoppers Peng He
09:45-10:00	Physicochemical basis and comparison of two type II sex pheromone components binding with pheromone-binding protein 2 from tea geometrid, <i>Ectropis obliqua</i> Hongliang Li
10:00-10:15	Identification and chemoreception of sex pheromone in <i>Athetis lepigone</i> Yanan Zhang
10:15-10:35	Coffee Break
10:35-11:05	Keynote Lecture Olfactory coding of sex pheromone blends in Heliothine moth species Chenzhu Wang
11:05-11:20	Putative neural network within a <i>S. basicoinica</i> for nestmate and non-nestmate CHC discrimination in the Japanese carpenter ant: The ultrastructure and mathematical simulation Mamiko Ozaki
11:20-11:35	Identification and function researches of <i>Dendrolimus</i> specific pheromone receptor genes Sufang Zhang
11:35-11:50	Comparison of Chemosensory Receptor Genes in the Antennae Transcriptome of <i>Sirex noctilio</i> and <i>S. nitobei</i> (Hymenoptera: Siricidae) Weiwei Wu
11:50-12:05	Identification and functional study of the pheromone receptors in <i>Apolygus lucorum</i> Yang Liu

Session 5

Chemical information flow among organisms

October 11 (Fri.) Room: Zurich

Organizer Li Chen and Wei Xu

08:30-09:00	Keynote Lecture Info-chemical flows among plants, flies and microbial communities of larval growth and oviposition environments Jerry Zhu
09:00-09:15	Neighbours matter: Community effects on plant-volatile emissions Andrea Clavijo-McCormick
09:15-09:30	A practical technique for EAG recording from lamellated antenna of scarab beetle Li Chen
09:30-09:45	Volatile production by banana plants infected with <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> R Andrew Hayes
09:45-10:00	Provisioning pheromone: Parents regulate larval begging by the pheromone in a burying beetle Yuki Mitaka
10:00-10:15	Regulation of aphid population and distribution on host plants by tending ants: benefits to mutualistic insects with a sacrifice of host plants Tian Xu
10:15-10:35	Coffee Break
10:35-11:05	Keynote Lecture Aposematic signal and antipredator defense in locusts Jin Ge
11:05-11:20	Detection of chemical signals from host and non-host organisms in insects Kye Chung Park
11:20-11:35	Mechanism of methyl eugenol perception in <i>Bactrocera dorsalis</i> : A molecular approach Hongbo Jiang
11:35-11:50	A phylogenomics approach to characterizing sensory neuron membrane proteins (SNMPs) in Lepidoptera Huijie Zhang
11:50-12:05	Transcriptome analysis of priming defense between and within <i>Brassica nigra</i> Jichang Zhang
12:05-12:20	Responses of <i>Tribolium castaneum</i> to infested wheat and aggregation pheromone Wei Xu

Session 6

Chemical ecology of forest ecosystem

October 11 (Fri.) Room: Venice

Organizer Zhen Zhang and Qinghe Zhang

08:30-08:55	Keynote Lecture Host selection in bark beetle <i>Ips typographus</i> : Understanding anti-attractants like NHV and their possible use for mitigation in the Anthropocene Fredrik Schlyter
08:55-09:15	Bacterial volatile ammonia regulates the consumption sequence of D-pinitol and D-glucose in a fungus associated with an invasive bark beetle Min Lu
09:15-09:35	Facile and efficient syntheses of (11Z, 13Z)-hexadecadienal and its derivatives key sex pheromone and attractant components of notodontidae Fu Liu
09:35-09:55	Phylogeographical analysis of <i>Dendrolimus punctatus</i> based on the whole mitochondrial DNA and ITS markers Huicong Du
09:55-10:15	Functional analyses of chemosensory proteins in the apple buprestid beetle <i>Agilus mali</i> Deguang Liu
10:15-10:35	Coffee Break
10:35-11:00	Keynote Lecture Mating behavior and attractiveness of male cuticle extracts based on electroantennogram and behavioral assay in <i>Sirex noctilio</i> Fabricius Pengfei Lu
11:00-11:20	Molecular and functional characterization of candidate sex pheromone receptors in <i>Dendrolimus punctatus</i> Walker Sifan Shen
11:20-11:40	Two trace volatiles released from living adult of <i>Aromia bungii</i> Faldermann (Coleoptera: Cerambycidae) as minor component of pheromone Jianrong Wei
11:40-12:00	Chemical ecological mechanism of coexistence among three <i>Tomicus</i> species Zhen Zhang

Session 7

From basic science in chemical ecology to commercial pest control products: alternative semiochemical-based insect pest management

October 12 (Sat.) Room: Venice

Organizer Jerry Zhu, Yinzhong Cui and Jianyu Deng

08:30-09:00	Keynote Lecture A to Z: The journey from synthesis to global commercialization of semiochemicals Lacey Cole
09:00-09:15	Rescue® dual bait technology for common household ants Qinghe Zhang
09:15-09:30	Identification of the sex pheromone of the spherical mealybug <i>Nipaecoccus viridis</i> Anat Levi-Zada
09:30-09:45	Kairomone A&K for adult noctuid control Stephen Sexton
09:45-10:00	Use of attractants in housefly baits Dangsheng Liang
10:00-10:15	Novel repellent compounds for managing German cockroach Xiaojie Zhou
10:15-10:35	Coffee Break
10:35-10:50	Functional study of <i>CYP4G19</i> in the German cockroach, <i>Blattella germanica</i> (L.) Yongliang Fan
10:50-11:05	Application of pheromones to monitoring for stored product insects Rikiya Sasaki
11:05-11:20	ATP detection and its role as phagostimulant in blood feeders Isabel Ortega Insaurralde
11:20-11:35	Development of spotted wing drosophila commercial lure and its use for management Dong Cha
11:35-11:50	Pheromone mating disruption development in Chinese integrated pest management: Perspectives in the last decade and prospects in next 10 years Yinzhong Cui
11:50-12:05	Spatial repellent, antifeedant and oviposition deterrent activity of coconut oil fatty acids and their methyl ester derivatives against biting flies Gwang Hyun Roh
12:05-13:30	Lunch
13:30-13:45	From Microscopic Characteristics of Antennal Sensilla to Enhancement of Field Attractiveness for the Management of Bean Bug, <i>Riptortus pedestris</i> Chung Gyoo Park
13:45-14:00	Development new commercial products for trapping insect pests based on insect pheromones and LED lights Jianyu Deng
14:00-14:15	Development and evaluation of food attractant for grain pest control Maidinai Sabier
14:15-14:30	Investigating various attract-and-kill prototypes for their potential control of <i>Spotted Wing Drosophila</i> Juan Huang
14:30-14:45	Efficacy of volatile infochemicals from lavenders regulating behaviour of tea green leafhopper and field application Cheng Pan

14:45-15:00	Production of moth pheromone precursors in <i>Nicotiana</i> spp. by <i>Agrobacterium</i> - mediated transformation Yihan Xia
15:00-15:15	Yeast-beetle interactions and potential insights into the control of <i>Carpophilus</i> beetles in stone fruits and almonds Farrukh Baig
15:15-15:30	Semiochemicals for area-wide pest management Agenor Mafra-Neto
15:30-15:50	Coffee Break
15:50-16:05	Development of natural product-based repellents and attractant-baited technologies against blood-sucking insects Jerry (Junwei) Zhu

Session 8

Manipulating indirect plant defences to improve pest management: can it be done?

October 12 (Sat.) Room: Creative City

Organizer Myron Zalucki, Michael J. Furlong, Yaobin Lu and Paul Cunningham

08:30-09:00	Keynote Lecture Manipulating indirect plant defences to improve pest management: can it be done? Zalucki MP
09:00-09:15	Insect effectors in plant-insect interactions and their potential applications Yingbo Mao
09:15-09:30	Host plants enhance the parasitism efficiency of a solitary egg parasitoid by altering their volatile cues Chengzhe Li
09:30-09:45	Evolution of plant defense resistance in natural enemies of an arthropod herbivore Xi Zhang
09:45-10:00	Can bottom-up effects be manipulated to enhance pest control? Peng Han
10:00-10:15	Organic fertilizer promotes wheat aphid control: from local to landscape scale effects Shimin Gu
10:15-10:35	Coffee Break
10:35-10:50	Can prey to predator ratio be considered a criterion for successful bio-control in field? Zhaozhi Lu
10:50-11:05	The control of DBM with <i>Diadegma semiclausum</i> in practice in Yunnan province? Zhenyu Li

Session 9

Innovative insect pest management with natural products

October 12 (Sat.) Room: Creative City

Organizer Aijun Zhang, Jian Chen, Dong Cha and Manqun Wang

11:20-11:50	Keynote Lecture Pyridine alkaloids in imported fire ants Jian Chen
11:50-12:05	Applying chemical ecology to manage insect pests of blueberries Cesar Rodriguez-Saona
12:05-13:30	Lunch
13:30-13:45	Discovery of repellents for managing spotted wing drosophila Dong Cha
13:45-14:00	Potential use of piperonyl butoxide in controlling Oriental fruit fly Alvin Kah Wei Hee
14:00-14:15	The fruit fly attractant raspberry ketone trifluoroacetate: When being the most attractive molecule isn't enough Matthew Siderhurst
14:15-14:30	Preparation of polymeric microspheres contain insecticide and attractant and their control effects on <i>Rhagoletis batava obseuriosa</i> adults Jianrong Wei
14:30-14:45	Pheromone-based attract-and-kill of cocoa pod borer Aijun Zhang
14:45-15:00	Particle-transport behaviors of red imported fire ants (Hymenoptera: Formicidae) in response to the repellent surfaces Cai Wang
15:00-15:15	The defense mechanism of the ghost ant <i>Tapinoma melanocephalum</i> against the red imported fire ant <i>Solenopsis invicta</i> Qingxing Shi
15:15-15:30	Cucumber and bitter melon extracts as ant repellents Matan Shelomi
15:30-15:50	Coffee Break
15:50-16:05	A defense protein MLX56 found in mulberry latex: Roles in mulberry-silkworm interaction, unique mode of function, and application to pest management Kotaro Konno
16:05-16:20	Correlation analysis between the shoot damages and trap catches of <i>Tomicus minor</i> Hartig in the <i>Pinus yunnanensis</i> forest Xiangbo Kong
16:20-16:45	Significant role of the maxillary palps in the olfactory communication of insects Kye Chung Park
16:45-17:00	Herbivore feeding and exogenous MeJA induced terpenoid defense in <i>Pinus massoniana</i> Ruixu Chen
17:00-17:15	Vanillin as a bioactive compound from resistant tomato root exudates affects <i>Meloidogyne incognita</i> infection Tongtong Liu
17:15-17:30	Isolation and identification of the aggregation pheromone in <i>Megalurothrips usitatus</i> (Thysanoptera: Thripidae) Xiaowei Li

Session 10

General chemical ecology

October 12 (Sat.) Room: Zurich

Organizer Junji Takabayashi, Shigeru Matsuyama, Xiaoling Sun, Koji Noge and Fengming Yan

08:30-08:45	Response of gut-associated bacteria to alpha-pinene of <i>Ips typographus</i> Jiaxing Fang
08:45-09:00	A collaborative intrusion mechanism between pine wood nematode, pine sawyer beetle and blue stain fungi Lilin Zhao
09:00-09:15	Diversity of ascariosides signaling in <i>Pristionchus</i> nematodes Chuanfu Dong
09:15-09:30	Identification and field evaluation of the sex pheromone of <i>Orthaga achatina</i> (Lepidoptera: Pyralidae) Qi Yan
09:30-09:45	Effect of intra- and inter-specific exposure of sex pheromone on adult reproductive performance of <i>Helicoverpa armigera</i> and <i>H. assulta</i> Guohui Yuan
09:45-10:00	Enhancement of copulation by dim red light during scotophase in the yellow peach moth, <i>Conogethes punctiferalis</i> Wei Xiao
10:00-10:15	Romantic leaves: plant volatiles stimulated mating behavior by modulating vibrational communication in leafminers Jin Ge
10:15-10:35	Coffee Break
10:35-10:50	Study on pheromone binding proteins and active components of contact pheromone in <i>Liposcelis entomophila</i> Yujie Lu
10:50-11:05	Characterization of nine odorant binding proteins in <i>Diaphorina citri</i> Xiaoqiang Liu
11:05-11:20	Rice stripe virus infection regulates olfactory behavior of the small brown planthopper (SBPH) <i>Laodelphax striatellus</i> Fang Liu
11:20-11:35	Neural basis underlying pollinator's decoding of floral scents Binyan Lu
11:35-11:50	Chrysomelidae discriminates host plants by tarsal gustation Shun Yosano
11:50-12:05	A cyanogenic glucoside, linamarin, regulates differential oviposition on white clover by coliadine butterflies, <i>Colias erate</i> and <i>Eurema mandarina</i> Hisashi Omura
12:05-13:30	Lunch
13:30-13:45	Induced resistance of oviposition of <i>Micromelalopha sieversi</i> on two clones of <i>Populus</i> section <i>Aigeiros</i> Zhen Zhang
13:45-14:00	Identification of leafhopper-induced tea plant volatiles and their attraction to parasitic mymarid wasps Baoyu Han

14:00-14:15	Impacts of CCYV-induced plant volatiles on behaviors of vector <i>Bemisia tabaci</i> Fengming Yan
14:15-14:30	Root feeding larvae increase their performance by inducing leaf volatiles that attract aboveground conspecific adults Xiao Sun
14:30-14:45	Identification, characterization and allelochemical induced expression of <i>CYP321A2</i> in <i>Helicoverpa zea</i> Shengyun Li
14:45-15:00	The cosmopolitan phytopathogen <i>Sclerotinia sclerotiorum</i> detoxifies defensive isothiocyanates in a Brassicaceae host plant Jingyuan Chen
15:00-15:15	Complex ecological impacts of the giant willow aphid invasion in New Zealand Andrea Clavijo-McCormick
15:15-15:30	Increasing flavonoids enhance the AM fungal colonization in an invasive plant Baoliang Tian

Session 11

Prof. Kenji Mori sensei: Great legendary chemical synthesis master and the first APACE president

October 13 (Sun.) Room: Venice

Organizer Shigefumi Kuwahara, Naoki Mori and Junwei Zhu

08:30-08:45	Opening talk Prof. Mori, President Mori and the co-Founder of APACE Jerry Zhu
08:45-09:30	Pheromone synthesis with my mentor, Prof. Kenji Mori Shigefumi Kuwahara
09:30-10:15	Teachings of Prof. Mori sensei for scientists who work for a company Rikiya Sasaki
10:15-10:25	Summary Farewell Prof. Mori Naoki Mori
10:25-10:45	Coffee Break

Session 12

Plant-plant chemical interactions

October 13 (Sun.) Room: Creative City

Organizer Chuihua Kong, Tran Dang Xuan and Jianqiang Wu

08:40-08:55	Root exudate analysis of buckwheat and oat in the presence of redroot pigweed Aurélie Gfeller
08:55-09:10	The influence of peanut/maize intercropping on jasmonates biosynthesis and secretion of root and its physiological and molecular mechanism in improving peanut iron nutrition Nanqi Wang
09:10-09:25	The parasite <i>Cuscuta australis</i> with a streamlined genome mediates inter-plant systemic signals Jianqiang Wu
09:25-09:40	Structure and origin of phenolic compounds that mediate the signaling interactions of parasitic plants with host plants Songkui Cui
09:40-09:55	Molecular evidence of (-)-loliolide induced the production of defensive metabolites in plants Leilei Li
09:55-10:10	Potential control of paddy and invasive weeds by mimilactones A,B,E and 7-ketostigmasterol isolated from rice husk Dang Xuan Tran
10:10-10:25	Allelochemicals: promissful sources of natural products with ecologically functions Bo Qin
10:25-10:45	Coffee Break
10:45-11:00	Antioxidant response mechanism of freshwater microalgae species to reactive oxygen species production: a mini review Adamu Yunusa Ugya

Session 13

Molecular chemical ecology

October 12 (Sat.) Room: Zurich

Organizer Christer Löfstedt and Yongping Huang

15:50-16:20	Keynote Lecture Functional conservation and divergence underscore the flexibility of Lepidoptera odorant receptors Mengbo Guo
16:20-16:32	Odorant receptor 25 is narrowly tuned to the floral volatile eugenol and methyleugenol attracting pollinator <i>Eupeodes corollae</i> Bing Wang
16:32-16:44	A gustatory receptor tuned to coumarin in the cotton bollworm <i>Helicoverpa armigera</i> Yan Chen
16:44-16:58	The locust odorant-binding protein <i>Lmig</i> OBP1 is involved in detection of host plant odorants Jia Li
16:58-17:10	Functional characterization of fructose gustatory receptors in <i>Plutella xylostella</i> and <i>Spodoptera litura</i> Xiaolong Liu
17:10-17:12	Functional characterization of odorant receptors in the moth <i>Eriocrania semipurpurella</i> : a comparison of results obtained with the <i>Xenopus oocyte</i> and HEK cell systems Xiaoqing Hou
17:12-17:24	An inhibitor for mating in cotton bollworm, <i>Helicoverpa armigera</i> Qiuyan Chen
October 13 (Sun.) Room: Zurich	
08:30-08:50	Characterization of DHCR24 orthologs in the phytophagous insect, <i>Bombyx mori</i> Haruna Fujimori
08:50-09:02	Comparison of different heterologous expression systems for studies of genes involved in moth pheromone biosynthesis Baojian Ding
09:02-09:22	Production of insect pheromone precursor in the oil crop <i>Camelina sativa</i> Honglei Wang
09:22-09:34	A cytochrome P450 from mustard leaf beetles hydroxylates geraniol, a key step in iridoid biosynthesis Nanxia Fu
09:34-09:54	Strigolactones activate defense against the stem-boring weevil <i>Trichobaris mucoarea</i> via their interactions with jasmonates and auxin Suhua Li
09:54-10:06	Sterol composition analysis of the two-spotted crickets, <i>Gryllus bimaculatus</i> Shinji Nagata
10:06-10:18	Production of (Z)-11-hexadecenal by a metabolically engineered yeast Yuguo Jiang
10:25-10:45	Coffee Break
10:45-11:15	Keynote Lecture Semiochemical carrier proteins in ticks and mites Paolo Pelosi

Poster Session

October 10 (Thu.) Room: Song Dynasty

S01-P-01	A neuropeptide inhibits feeding behavior by modulating sweet chemosensory in the brown planthopper Di Guo
S01-P-02	Olfactory responses of the antennae and maxillary palps to parapheromone and plant volatile compounds in the striped fruit fly, <i>Bactrocera scutellata</i> Hyun-Woo Oh
S01-P-03	Identification and expression profile analysis of olfactory receptor gene in <i>Apriona germari</i> (Hope) Jiali Qian
S01-P-04	Ultrastructural observation of the antennae of the <i>Zele chlorophthalmus</i> Linbo Xu
S01-P-05	Sweet sensation inhibit texture discrimination in <i>Drosophila</i> egg-laying behaviour Shunfan Wu
S01-P-06	Identification of Volatile Compounds from Rectal Gland and Headspace Extracts of Female <i>Bactrocera correcta</i> Xiuge Zhang
S01-P-07	A mechanosensitive channel modulates egg-laying in the brown planthopper <i>Nilaparvata lugens</i> and the fruit fly <i>Drosophila melanogaster</i> Yijie Zhang
S02-P-08	The involvement of an herbivore-induced acyl-CoA oxidase gene, <i>CsACX1</i> , in the synthesis of jasmonic acid and its expression in flower opening in tea plant (<i>Camellia sinensis</i>) Shenglong Chen
S02-P-09	<i>Bt</i> rice plants may protect neighboring non- <i>Bt</i> rice plants against the striped stemborer <i>Chilo suppressalis</i> Xiaoyun Hu
S03-P-10	Screening of chemical cues during the host searching process of weevil <i>Curculio chinensis</i> Hualong Qiu
S03-P-11	Tea geometrid-induced biosynthesis of polyphenol oxidase is regulated by the jasmonate pathway in tea plant Jin Zhang
S03-P-12	Molecular dissection of early defense signaling underlying volatile-mediated defense regulation and herbivore resistance in rice Meng Ye
S03-P-13	An intrinsically disordered protein regulates the resistance in rice to brown planthopper (<i>Nilaparvata lugens</i>) Peng Kuai
S03-P-14	The feeding preferences of <i>Apolygus lucorum</i> (Heteroptera: Miridae) by the PCR-based analysis of plant DNA Qian Wang
S03-P-15	Chemical mechanisms of the preferential attraction of the sugarcane stem borer, <i>Chilo sacchariphagus</i> , to the trap crop <i>Erianthus arundinaceus</i> Vincent Jacob

S03-P-16	The molecular cloning and characterization of <i>CsMYC2</i> , a bHLH transcription factor from tea plants (<i>Camellia sinensis</i>) Xin Zhang
S03-P-17	Functional characterization of herbivore resistance-related gene <i>OsJMJ28</i> in rice Yuebai Zhang
S04-P-18	Various bee pheromones binding affinity, exclusive chemosensillar localization, and key amino acid sites reveal the distinctive characteristics of odorant-binding protein 11 in the eastern honey bee, <i>Apis cerana</i> Hongliang Li
S04-P-19	Functional characterization of pheromone receptors in codling moth <i>Cydia pomonella</i> Tian Ke
S04-P-20	Sensilla trichodea-biased EobIPBP1 binds sex pheromones and green leaf volatiles in a geometrid moth pest <i>Ectropis obliqua</i> Prout that uses Type-II sex pheromones Liang Sun
S04-P-21	Functional differentiation of pheromone-binding proteins in <i>Hyphantria cunea</i> (Drury) Longwa Zhang
S04-P-22	Sensory neuron membrane protein 1 (SNMP1) reinforces receptivity of male <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) to sex pheromone components Shuai Liu
S04-P-23	The evolution pattern of the production and processing of short chain cuticular pheromones in genus <i>Drosophila</i> Wufan Zhang
S05-P-24	Electroantennogram responses of <i>Diaphania caesalis</i> Walker (Lepidoptera: Pyralidae) to volatile matters elicit from <i>Artocarpus heterophyllus</i> Lam Zheng Wang
S06-P-25	Genotypic diversity interacts with predation risk to influence on arthropod richness, evenness and diversity in poplar plantation Haibo Chen
S08-P-26	The OsmiR396–OsGRF8–OsF3H-flavonoid pathway mediates resistance to the brown planthopper in rice (<i>Oryza sativa</i>) Xiaofang Yang
S09-P-27	Functional analysis of three olfactory protein genes in <i>Galeruca daurica</i> (Coleoptera: Chrysomelidae) by RNAi and electroantennography Baoping Pang
S09-P-28	Effects of jasmonic acid seed treatment on tobacco resistance to <i>Spodoptera litura</i> Lei Wang
S09-P-29	Study on the odorant binding proteins (OBPs) and odorant receptors (ORs) of <i>Bactrocera minax</i> Qiong Zhou
S09-P-30	Silicon inhibits the resistance of rice stem borer to chlorpyrifos Rongrong Xue
S09-P-31	The suppressing effect of leaf-radish living mulch on cabbage pests So Nakano
S09-P-32	JA-Ile-macrolactones induce both herbivore <i>Ectropis obliqua</i> and pathogen <i>Colletotrichum camelliae</i> resistance responses of <i>Camellia sinensis</i> Songbo Lin
S09-P-33	Cuticular hydrocarbon of the Japanese carpenter ant is useful in pest management on the Argentine ant (<i>Linepithema humile</i>) Tomoya Sakita

S10-P-34	Differential host choices of <i>Helicoverpa armigera</i> and <i>H. assulta</i> to tomato volatiles Guohui Yuan
S10-P-35	Rhizosphere responses to environmental conditions in <i>Radix pseudostellariae</i> under continuous monoculture regimes Hongmiao Wu
S10-P-36	The morphological development of antennal sensilla and corresponding expression of OBP3/7/9 after emergence in the grain aphid <i>Sitobion miscanthi</i> Jia Fan
S10-P-37	Development of regional attractants for <i>Spodoptera frugiperda</i> (Smith) based on sex pheromones and its application Jianqing Dai
S10-P-38	Detoxification of plant chemical defenses is an important virulence factor for the cosmopolitan phytopathogen <i>Sclerotinia sclerotiorum</i> Jingyuan Chen
S10-P-39	Electroantennographic responses of <i>Artona martini</i> Efetov (Lepidoptera: Zygaenidae) to its dorsal abdomine extracts Junheon Kim
S10-P-40	Host recognition of the cabbage bug, <i>Eurydema rugosa</i> (Hemiptera: Pentatomidae), and its sucking stimulant(s) from the host plant, <i>Brassica juncea</i> var. <i>cernua</i> (Brassicaceae) Koji Noge
S10-P-41	Pheromones, plant-gall allelochemicals, and division of labor in a social aphid Matsuyama Shigeru
S10-P-42	Two chemical defensive lines in leaf beetles: P450s are involved in the biosynthetic pathways Nanxia Fu
S10-P-43	Responses of nutrient elements in red clover to aluminum stress Quan Liu
S10-P-44	The relationship between soil nutrient elements and chemical constituents of <i>Apocynum venetum</i> L. Quan Liu
S10-P-45	Comparative efficacy of the entomopathogenic fungus, <i>Beauveria bassiana</i> (Bals.) Vuill. and <i>Metarhizium anisopliae</i> (Metchnikoff) Sorokin on larval mortality, enzyme inhibition of <i>Spodoptera litura</i> Fab. and their non-target activity against <i>Eudrilus eugeniae</i> Kinb Sengodan Karthi
S10-P-46	Direct and indirect modification of <i>Bemisia tabaci</i> feeding behavior by <i>Cucurbit chlorotic yellows virus</i> Shaohua Lu
S10-P-47	Effects of Volatile on the Feeding and <i>Mating Behaviors</i> of <i>Sitophilus zeamais</i> and <i>Sitophilus oryzae</i> Shaohua Lu
S10-P-48	Effects of salicylic acid concentration and post-treatment time on the direct and systemic defense responses in maize (<i>Zea mays</i> L.) after exogenous foliar application Xiaoyi Wang
S10-P-49	Microbial community structure and its temporal changes in <i>Panax ginseng</i> C.A. Maye rhizospheric soils monocultured for different years Xuesong Zhao
S10-P-50	No detrimental effects of Bt maize in aphid-ladybeetle systems Yinghua Shu

S10-P-51	Pathogenicity of the Fungus <i>Isaria fumosorosea</i> Strain (Ifu13a) against the aphid <i>Aphis gossypii</i> and on the predator <i>Harmonia axyridis</i> Yinyin Ge
S10-P-52	Effects of exogenous jasmonic acid on leaf defense response and expression profile of Bt and conventional maize seedlings Yuanjiao Feng
S10-P-53	Seed soaking with sodium silicate primes salt tolerance of rice seedlings without physiological cost Cuicui Xu
S12-P-54	Nutrient-induced shifts in fine roots architecture reflect alternate root foraging strategies in <i>Cunninghamia lanceolata</i> Peng Wang
S12-P-55	Behavioral, physiological and molecular responses to cadmium in the Asian corn borer, <i>Ostrinia furnacalis</i> Hongyi Wei
S13-P-56	Diterpenoids from the roots of <i>Lonicera macranthoides</i> Hui Lyu
S13-P-57	Odorant receptors for toxicants in <i>Ostrinia furnacalis</i> Jie Yu
S13-P-58	Research progress on insect ionotropic receptors Jinmeng Guo
S13-P-59	Cloning and expression of α -farnesene synthase gene from tea plant Mengxin Wang
S13-P-60	Identification of olfactory genes and functional analysis of GOBP2 in <i>Clostera restituta</i> Tianzi Gu
S13-P-61	Neuropeptides in the brain of adult male cotton bollworm and their expressions at different ages Wei Liu
S13-P-62	Odorant binding protein and chemosensory protein genes in <i>Cacopsylla chinensis</i> (Hemiptera: Psyllidae) Yanan Zhang
S13-P-63	Transcriptome analysis of sex pheromone glands in <i>Mythimna separate</i> (Walker) (Lepidoptera: Noctuidae) Yilu Feng
S13-P-64	Identification and Sex-biased Profiles of Candidate Olfactory Genes in the Antennal Transcriptome of the Parasitoid Wasp <i>Cotesia vestalis</i> Yipeng Liu
S13-P-65	Mouthparts enriched odorant binding protein AfasOBP11 plays a role in the gustatory perception of <i>Adelphocoris fasciaticollis</i> Zibo Li
S13-P-66	The identification, expression profile and functional analysis of chemosensory genes in legs of <i>Apolygus lucorum</i> (Hemiptera: Miridae) Zibo Li

Technical Session

October 13 (Sun.) Room: Creative City

11:10-11:30	纳米孔测序技术及其最新应用进展 毛凌峰博士（宝诚生物）
11:30-11:45	蛋白质组学及蛋白修饰组学在植物病虫害领域的应用与研究策略 胡香静博士（景杰生物）
11:45-12:00	PCR仪再创新-莫纳生物国产PCR逆袭之作 宋南（柏嘉生物）

Presentation Instructions

Oral Presentations

Time for Presentations

Keynote lecture: 20-30 minutes (including Q&A)

General presentation: 12-20 minutes (including Q&A)

Note: Please make sure that your presentation does not run over your allocated time. Any time taken to connect personal laptops will be a part of your time allocation.

Computers and Projectors

Presenters are requested to bring their Power point on their own laptop or on a USB memory stick as there will be a computer in each session room.

Notes:

1. Please check that your laptop is charged and the power-saving function is deactivated.
2. Please test your laptop's connection to the projector in the session room prior to your session.

Poster presentations

Poster Specifications

The standard size of the poster is 90 cm (Width) × 120 cm (Height) with a minimum resolution of 300 dpi.

You will find a poster board with the number corresponding to the number of your poster. Please set your poster up in the designated place.

Poster Set-Up/Removal Times

Set-Up: October 10 (Thursday) 15:00-17:00

Removal: October 10 (Thursday) 20:30-21:00

Notes:

1. Presenters must bring their printed posters as there are no printing facilities on site.
2. Presenters are expected to be at their posters during the appropriate poster session.
3. Any remaining poster will be removed and discarded by the secretariat.

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