

# **The 9<sup>th</sup> International Forum for Surveillance and Control of Mosquitoes and Vector-borne Diseases,**

**XI'AN Paradise Resort  
The City of Xi'An, China, May 26-29, 2025**

## **参会须知**

1. 请与会嘉宾按照日程安排，按时参加相关会议。
2. 会议期间请佩戴参会证，凭参会证出入会场并用餐。
3. 会议进行中请自觉关闭手机等通讯工具或调至静音状态。
4. 请妥善保管自身财物和相关证件，如有遗失，请及时与会务联络人联系。
5. 会议期间禁止外出，如遇突发情况请及时与会务组联系。

## **Notes for Participants**

1. According to the schedule, guests are expected to participate in the relevant meetings on time.
2. During the forum, guests are required to wear their name tags to enter and leave the meeting places and to access meals.
3. Please turn off your cell phones and other communication tools or keep them in silent mode during the meeting.
4. Please take care of your property and relevant documents properly; if anything is lost, please contact the conference staff for help asap.
5. In case of emergencies, please contact the organizing committee immediately.

曲江惠宾苑宾馆  
**XI'AN Paradise Resort**

会议地点：旺园殿（2号楼2层）

餐厅地点：四季西餐厅（1号楼）

用餐时间：早餐：6:30-9:30

午餐：11:30-13:30

晚餐：17:30-19:30

**Meeting room: Wangyuan Palace, Building 2, 2/Floor**

Breakfast Buffet: Time: 6:30-10:00

Lunch Buffet: Time: 12:00-14:00

Dinner Buffet: Time: 17:30-21:00

**联系人: Conference contact persons:**

# Program

## 日程

<b>May 26, 2025 (Beijing Time) Registration: 9 am-5 pm</b> <b>Committee meeting and the ASVEMC working group meeting: 3pm-5pm</b> <b>2025年5月26日(北京时间)注册</b>	
<b>May 27, 2025 (2025年5月27日)</b> <b>会议地点：旺园殿</b> <b>Meeting room: Wangyuan Palace, Building 2, 2/Floor</b>	
<b>Opening ceremony</b> <b>开幕式</b> <b>Moderators: Chun-Xiao Li and Rui-De Xue</b> <b>主持人：李春晓，薛瑞德</b>	
8:00 am	<b>Welcome:</b> Leaders of the Entomological Society of China (ESC), Beijing, China (Dr. Feng Ge, President of the ESC & Dr. Chun-Xiao Li, Chair, Med & Vet Entomol Committee of the ESC) <b>中国昆虫学会领导致辞</b>
8:10 am	<b>Welcome:</b> Leader of the Shaanxi Entomological Society (SES, Shaanxi, China (Dr. Wu Dai, President of the SES) <b>陕西省昆虫学会领导致辞</b>
<b>General session</b> <b>综合报告</b> <b>Moderators: Tongyan Zhao &amp; Rui-De Xue</b> <b>主持人：赵彤言 &amp; 薛瑞德</b>	
8:20 am	<b>Keynote Speaker:</b> Dr. Florence Fouque, Scientist, World Health Organization/Tropical Disease Research (WHO/TDR), Geneva,

	<p>Switzerland. <b>Global exploration and challenge of SIT for control of dengue vector mosquitoes</b></p> <p>特邀报告：Dr. Florence Fouque，世界卫生组织/热带病研究署科学家，瑞士日内瓦 昆虫不育技术（SIT）防控登革热媒介蚊虫的全球探索与挑战</p>
9:00 am	<p><b>Keynote Speaker:</b> Dr. J. Lyell Clarke III, CEO, The Clarke Group, Illinois, USA. <b>Industry is a major part of combating mosquito and vector-borne diseases worldwide</b></p> <p>特邀报告：Dr. J. Lyell Clarke III，美国伊利诺伊州克拉克集团首席执行官 工业在全球蚊虫与虫媒病防治中的重要作用</p>
9:40 am	<p><b>Invited Speaker:</b> Dr. Rui-De Xue, Executive Director, Anastasia Mosquito Control District, St. Augustine, FL, USA. <b>Best management practices for technology adoption in mosquito surveillance and control</b></p> <p>Dr. Rui-De Xue 美国佛罗里达州圣奥古斯丁阿纳斯塔西娅蚊虫控制区执行董事 蚊虫监测与控制技术应用的最佳管理实践</p>
10:20 am	<p><b>Break: Take a group photo in front of the hotel</b></p> <p>休息，在酒店门前合影</p>
<p><b>Moderators: Qiyong Liu &amp; Xiaoguang Chen</b></p> <p>主持人：刘起勇 &amp; 陈晓光</p>	
10:40 am	<p><b>Invited Speaker:</b> Dr. Tongyan Zhao, Professor, State Key Laboratory of Pathogen and Biosecurity, Beijing, China. <b>Integrated management of dengue vector mosquitoes</b></p> <p>赵彤言 病原微生物生物安全全国重点实验室研究员 登革热媒介蚊虫的综合防治</p>
11:00 am	<p><b>Invited Speaker:</b> Dr. Qiyong Liu, Professor, National Key Laboratory of Intelligent Tracking and Forecasting for Infectious Diseases, National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention,</p>

	<p>Beijing, China. <b>Stratified sustainable vector control strategies and measures for malaria elimination in China: A 70-year journey</b></p> <p>刘起勇 中国疾病预防控制中心传染病预防控制所研究员 中国北京 媒介生物分层可持续控制策略和技术——中国疟疾消除70年历程</p>
11:20 am	<p><b>Invited Speaker:</b> Dr. Xiaoguang Chen, Professor, Institute of Tropical Medicine, Southern Medical University, Guangzhou, China. <b>The epidemic and control of dengue fever</b></p> <p>陈晓光 南方医科大学热带医学研究所教授 登革热的流行与防控</p>
11:40 am	<p><b>Invited Speaker:</b> Dr. Gong Cheng, Professor, Tsinghua University, Beijing, China. <b>Molecular basis of Flavivirus infection in mosquitoes</b></p> <p>程功 清华大学教授 黄病毒属病毒在蚊虫感染传播中的分子基础</p>
<b>12:00 Lunch Break</b>	
<p><b>Mosquito &amp; Vector-borne Disease</b>  <b>蚊虫与虫媒病综合防控</b></p> <p><b>Moderators: Ary Faraji &amp; Hongliang Chu</b>  <b>主持人：Ary Faraji &amp; 褚宏亮</b></p>	
2:00 pm	<p>Mr. James Clauson, Director, Beach Mosquito Control District, Panama City, FL, USA. <b>Aerial application for control of mosquitoes in Florida</b></p> <p>Mr. James Clauson 美国佛罗里达州海滩蚊虫控制区主任 蚊虫空间控制技术中的应用</p>
2:20 pm	<p>Dr. Ary Faraji, Executive Director, Salt Lake City Mosquito Abatement District, Salt Lake, Utah, USA. <b>Applied research progress on mosquitoes</b></p>

	<p>Dr. Ary Faraji 美国犹他州盐湖城蚊虫防治区执行董事 蚊虫应用研究进展</p>
2:40 pm	<p>Dr. Spiros Mourelatos, CEO, Ecodevelopment SA. Filiro, Thessaloniki, Greece. <b>The use of big data and AI in mosquito control in Europe</b></p> <p>Dr. Spiros Mourelatos 希腊塞萨洛尼基市菲利罗 Ecodevelopment SA 公司首席执行官 大数据与人工智能在欧洲蚊虫控制中的应用</p>
3:00 pm	<p>Dr. Gerard Duvallet, Professor Emeritus, University Paul-Valery, Montpellier, France. <b>Stable fly management: a new biological control</b></p> <p>Dr. Gerard Duvallet 法国保罗-瓦莱里大学荣誉教授 厩螫蝇治理：一种新的生物控制方法</p>
<p><b>Dengue Vector Control</b> 登革热媒介防控</p> <p><b>Moderator: Abu H. Ahmad &amp; Lee Ching NG</b> 主持人：Abu H. Ahmad &amp; Lee Ching NG</p>	
3:20 pm	<p>Dr. Lee Ching NG, Director, Environmental Health Institute, National Environmental Agency, Singapore. <b>Experience and accomplishment of SIT/IIT for control of dengue vector mosquitoes in Singapore in the past 10 years</b></p> <p>Dr. Lee Ching NG 新加坡国家环境局环境卫生研究所主任 过去10年新加坡利用昆虫不育技术（SIT）/不相容昆虫技术（IIT）控制登革热媒介蚊虫的经验与成就</p>
3:40 pm	<p>Dr. Abu Hassan Ahmad, Professor Emeritus, Vector Control Unit, USM, Penang, Malaysia. <b>Dengue and dengue vector control in Malaysia</b></p> <p>Dr. Abu Hassan Ahmad 马来西亚理科大学媒介控制组荣誉教授 登革热及其媒介防控</p>

4:00 pm	休息
4:20 pm	Dr. Zhen Zou, Professor, Institute of Zoology, Chinese Academy of Sciences, Beijing, China. <b>Research on the vector ability and population regulation of <i>Aedes</i> mosquitoes</b> 邹振 中国科学院动物研究所研究员 对伊蚊媒介效能和种群调控的研究
4:40 pm	Dr. Xiaohong Zhou, Professor, Southern Medical University, Guangzhou, China. <b>The regulatory mechanism of the core clock gene on photoperiodic diapause in <i>Aedes albopictus</i></b> 周晓红 南方医科大学教授 核心时钟基因 Clock 对白纹伊蚊光周期滞育的调控机制
5:00 pm	Dr. Guanhong Wang, Professor, Institute of Zoology, Chinese Academy of Sciences, Beijing, China. <b>Wolbachia-infected <i>Aedes albopictus</i> males regulate the uninfected females' fecundity through <i>rpz</i> gene</b> 王关红 中国科学院动物研究所教授 感染沃尔巴克氏体的白纹伊蚊雄蚊通过 <i>rpz</i> 基因调控未感染雌蚊的繁殖力
5:20 pm	Dr. Maoqing Gong, Professor, Shandong Institute of Parasitic Diseases, Shandong First Medical University, Shandong, China. <b>Study on the adaptive evolution of <i>Aedes albopictus</i></b> 公茂庆 山东省寄生虫病防治研究所、山东第一医科大学教授 气候变化下白纹伊蚊的适应性演化
5:40 pm	Dr. Xiaoying Zheng, Professor, CAEA of Excellence on Nuclear Technology Applications for Insect Control, SYSU, Guangzhou, China. <b>Development of SIT for <i>Aedes albopictus</i> control: a preliminary field study in Guangzhou, China</b> 郑小英 中山大学核技术农业应用卓越中心教授 利用昆虫不育技术 (SIT) 控制白纹伊蚊的初步野外研究：中国广州市案例
6:00 pm	End of session

May 28, 2025 ( 2025 年 5 月 28 日 )

**Dengue Vector Control**

登革热媒介防控

**Moderators: Neoh Kok Boon & Theeraphap Chareoniriyaphap**

**主持人：Neoh Kok Boon & Theeraphap Chareoniriyaphap**

8:00 am

Dr. Neoh Kok Boon, Professor, Department of Entomology, National Chung Hsing University, Taiwan, China. **The effect of toxic sugar bait with boric acid on *Aedes mosquitoes* and the non-targeted natural predator *Toxorhynchites rutilus rutilus***

Dr. Neoh Kok Boon 国立中兴大学昆虫学系 中国台湾 硼酸毒糖饵对伊蚊和非靶向自然捕食者 *Toxorhynchites rutilus rutilus* 的影响

8:20 am

Dr. Rosilawati Rasli, Medical Entomology Unit, Infectious Disease Research Centre, Institute for Medical Research, National Institute of Health, Ministry of Health, Shah Alam, Selangor, Malaysia.

**Insecticide resistance prevalence of dengue vectors in Malaysia: a systematic review and meta-analysis**

Dr. Rosilawati Rasli 马来西亚卫生部国家卫生研究院医学研究所传染病研究中心医学昆虫学组 马来西亚登革热媒介抗药性流行现状：系统综述与荟萃分析

8:35 am

Dr. Rajiv Ravi, Senior Lecturer/Assistant Professor, Department of Parasitology, Faculty of Medicine Universiti Malaya 50603 Kuala Lumpur, Malaysia. **Improved applications of space spray for *Aedes*-resistant strains**

Dr. Rajiv Ravi 马来亚大学医学院寄生虫学系高级讲师/助理教授 空间喷洒技术在抗药性伊蚊品系中的优化应用

8:50 am

Dr. Wu-Chun Tu, Professor, Medical Entomology Laboratory, Department of Entomology, National Chung Hsing University, China. **Studies on the gonotrophic cycles of *Aedes aegypti***



	<p><b>(Diptera: Culicidae)</b></p> <p>Dr. Wu-Chun Tu 国立中兴大学昆虫学系医学昆虫学实验室教授 中国台湾 埃及伊蚊（双翅目：蚊科）生殖营养周期研究</p>
<p><b>Malaria and filariasis Vector Control</b> 疟疾及丝虫病媒介防控</p>	
<p><b>Moderators: Brij Kishore Tyagi &amp; Jackson Champer</b> 主持人：Brij Kishore Tyagi &amp; Jackson Champer</p>	
9:05 am	<p>Dr. Theeraphap Chareoniriyaphap, Professor &amp; Director, Kasetsart University, Bangkok, Thailand. <b>Current situation of nonhuman malaria and potential <i>Anopheles</i> vectors in Thailand</b></p> <p>Dr. Theeraphap Chareoniriyaphap 泰国农业大学教授 泰国非人类疟疾现状及潜在按蚊媒介</p>
09:25 am	<p>Dr. B. Reddy Naik, Professor of Zoology, Osmania University, Hyderabad, India. <b>Donald Rose Malaria Institute program</b></p> <p>Dr. B. Reddy Naik 印度奥斯马尼亚大学动物学教授 唐纳德·罗斯疟疾研究所计划</p>
09:40 am	<p>Dr. Brij Kishore Tyagi, Professor, University Institute of Biotechnology, Chandigarh University, Punjab, India. <b>Dynamics of desert malaria- challenges for disease surveillance and elimination in India by 2027 under extensive irrigation-transformed ecophysiology and climate</b></p> <p>Dr. Brij Kishore Tyagi 印度昌迪加尔大学大学生物技术研究所教授 沙漠疟疾的动态：2027年前在广泛灌溉改造生态地理与气候条件下印度疾病监测与消除的挑战</p>
09:55 am	<b>Break</b>
10:10 am	<p>Dr. Jingwen Wang, Professor, Fudan University, Shanghai, China. <b>The influence of gut commensal bacteria on peritrophic matrix formation</b></p>

	王敬文 复旦大学教授 按蚊肠道菌调控围食膜形成的机制研究
10:25 am	Dr. Jackson Champer, Professor, Center for Bioinformatics, Center for Life Sciences, School of Life Sciences, Peking University, Beijing, China. <b>Challenges and solutions for deployment of gene drive in mosquitoes</b> Jackson Champer , 北京大学生命科学学院生命科学中心、生物信息中心教授 蚊虫基因驱动技术发展所面临的挑战与解决方案
10:40 am	Dr. Xiaobo Liu, Professor, National Key Laboratory of Intelligent Tracking and Forecasting for Infectious Diseases, National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China. <b>Lessons from failure to success on malaria elimination in the Huai River Basin in China</b> 刘小波 中国疾病预防控制中心传染病预防控制所传染病预测预警与智能决策技术国家重点实验室教授 中国淮河流域疟疾消除从失败到成功的经验教训
10:55 am	Dr. Olawale Quazim Junaid, Department of Parasitology, Faculty of Medicine, Universiti Malaya, Malaysia. <b>Risks of zoonotic filariasis in Klang Valley Malaysia: vector dynamics and host variability intrigues</b> Dr. Olawale Quazim Junaid 马来西亚 马来亚大学医学院寄生虫学系 马来西亚巴生河谷人畜共患丝虫病的传播风险：媒介动态与宿主变异性的交互影响
<b>Insecticides and Resistance</b> 杀虫剂与抗药性 <b>Moderators: Chunxiao Li &amp; Brij Kishore Tyagi</b> 主持人：李春晓 & Brij Kishore Tyagi	
11:10 am	Dr. Nannan Liu, Professor & Director, Department of Entomology and Plant Pathology, Auburn University, Alabama, USA. <b>Insecticide resistance mechanism and potential management</b>

	Dr. Nannan Liu 美国奥本大学昆虫学与植物病理学系主任 杀虫剂抗性机制及潜在管理策略
11:30 am	Dr. Intan Haslina Ishak, Associate Professor, Vector Control Research Unit, Universiti Sains Malaysia, Penang, Malaysia. <b>Insecticide resistance mechanism in <i>Aedes albopictus</i> in Malaysia</b> Dr. Intan Haslina Ishak 马来西亚理科大学媒介控制研究组副教授 马来西亚白纹伊蚊的杀虫剂抗性机制
11:45 am	Dr. Chee Dhang Chen, EntomoBio Research Lab, Department of Research Development, Universiti Malaya. <b>Biochemical and bioassay evidence of resistance in <i>Aedes albopictus</i> populations in Borneo Island, Malaysia</b> Dr. Chee Dhang Chen 马来西亚马来亚大学研究发展部 EntomoBio 昆虫生物研究实验室 马来西亚婆罗洲岛白纹伊蚊种群抗药性的生化与生物测定
<b>12:00 (noon) Lunch break</b>	
<b>Insecticides and Vector Control</b> <b>Moderators: Nannan Liu &amp; James Clauson</b>	
2:00 pm	Dr. M. Madhavi. FAEB, Professor and Head Department, Ronald Ross Institute, Zoology Osmania University, Parasitology Osmania University Hyderabad. <b>Effect of Znic Oxide nanoparticles synthesized from plant extracts against dengue and chikungunya vector, <i>Aedes aegypti</i> and <i>Aedes albopictus</i></b> Dr. M. Madhavi. Ph.D FAEB 印度奥斯马尼亚大学动物学系、寄生虫学系罗纳德·罗斯研究所教授兼系主任 利用植物提取物合成的氧化锌纳米颗粒对登革热和基孔肯雅热媒介——埃及伊蚊和白纹伊蚊的防治效果
2:20 pm	Dr. Chunxiao Li, Professor, National Key Laboratory of Pathogenic Microbial Biosafety, Beijing, China. <b>Synthesis of dsRNA by engineered bacteria combined with nanodelivery technology for</b>

	<p><b>mosquito control</b></p> <p>李春晓 病原微生物生物安全国家重点实验室教授 利用工程菌合成 dsRNA 结合纳米递送技术控制蚊虫</p>
2:40 pm	<p>Dr. Weilong Tan, Chief physician, Nanjing Bioengineering (Gene) Technology Centre for Medicines, Nanjing, China. <b>Impact of <i>Bacillus thuringiensis israelensis</i> (Bti) Bioinsecticide on the vector competence of <i>Aedes aegypti</i> for dengue, zika, and Japanese Encephalitis viruses</b></p> <p>谭伟龙 南京生物工程（基因）药物技术中心主任医师 生物杀虫剂苏云金芽孢杆菌（Bti）对埃及伊蚊感染登革、寨卡和乙脑病毒媒介效能的影响</p>
2:55 pm	<p>Dr. Van Lun Low (Lucas), Associate Professor, Tropical Infectious Diseases Research &amp; Education Centre (TIDREC), Higher Institution Centre of Excellence (HICoE), Universiti Malaya, Malaysia. <b><i>Streptomyces</i> Bacterial Metabolites and Their Potential for Mosquito Control</b></p> <p>Dr. Van Lun Low (Lucas) 马来西亚马来亚大学卓越高等教育中心热带传染病研究与教育中心副教授 链霉菌细菌代谢物及其在蚊虫防控中的应用潜力</p>
3:15 pm	<p>Dr. Tong Kai Tan, Tropical Infectious Diseases Research &amp; Education Centre (TIDREC), Higher Institution Centre of Excellence (HICoE), Universiti Malaya, Malaysia. <b>Susceptibility of <i>Aedes aegypti</i> larvae to imidacloprid and acetamiprid in Malaysia</b></p> <p>Dr. Tong Kai Tan, 马来西亚马来亚大学卓越高等教育中心热带传染病研究与教育中心 马来西亚埃及伊蚊幼虫对吡虫啉及啉虫脒的敏感性研究</p>
3:30 pm	Break
<p><b>Mosquito Physiology and Pathogenomics</b> 蚊虫生理学和病原组学</p>	

**Moderator: Aihua Zheng & Jiahong Wu**

主持人：郑爱华 & 吴家红

3:50 pm

Dr. Aihua Zheng, Professor, State Key Laboratory of Integrated Management of Pest Insects and Rodents, Institute of Zoology, Chinese Academy of Sciences, Beijing, China. **m6A epigenetic modification of viral RNA is critical for the transmission cycle of mosquito-borne flaviviruses**

郑爱华 中国科学院动物研究所昆虫与啮齿动物综合治理国家重点实验室教授 m6A 表观遗传修饰调控蚊媒黄病毒感染和传播的分子机制

4:10 pm

Dr. Feng Liu, Professor, Institute of Infectious Diseases at Shenzhen Bay Laboratory, Shenzhen, China. **The molecular basis of transcription factor acj6 and pdm3 regulating the expression of olfactory receptors in mosquitoes**

柳峰 深圳湾实验室传染病研究所教授 转录因子 acj6 和 pdm3 调控蚊虫嗅觉受体表达的分子基础

4:25 pm

Dr. Jiahong Wu, Professor, Guizhou Medical University, Guizhou, China. **Unraveling the diversity and dynamics of the mosquito virome in Guizhou Province, China, through viral metagenomics**

吴家红 贵州医科大学教授 基于病毒宏基因组探讨贵州省蚊虫病毒组多样性

4:40 pm

Dr. Hongliang Chu, Senior technologist, Jiangsu Provincial Center for Disease Control and Prevention, Jiangsu, China. **The spatiotemporal distribution characteristics and pathogen diversity of vector organisms within coastal wetlands of Jiangsu Province - Taking Yancheng Biosphere Reserve as an example**

褚宏亮 江苏省疾病预防控制中心高级技师 江苏沿海湿地媒介生物的时空分布特征及病原体多样性——以“盐城生物圈保护区”为例

4:55 pm	Dr. Pa Wu, Professor, Hunan Normal University, Hunan, China. <b>The role of mosquito opsins in perceiving ultraviolet and visible light</b> 吴葩 湖南师范大学教授 视蛋白在蚊虫感知紫外线及可见光中的作用
5:10 pm	Dr. Yingying Guo, Professor, Hainan University School of Life and Health Sciences, Hainan, China. <b>Molecular mechanisms and regulation of the melanization response in mosquitoes</b> 郭莹莹 海南大学生命与健康科学学院教授 蚊虫黑化反应的分子机制与调控研究
5:25 pm	End of the session & 9 <sup>th</sup> IFSCMVD
<b><u>May 29-30, 2025. Self Activity &amp; Departure</u></b> <b><u>2025年5月29日（北京时间）离会</u></b>	