SESSION LECTURE

No. 42

Evolution and Ecology of Infectious Diseases

Room: 403

Co-Chairs: Qiyong Liu  **Steven Su** 

Day 3 October 29th (Monday) 8:30 – 12:00		
Time	**Speaker**	**Title**
8:30-9:10	**Alexander S. Raikhel** *University of California Riverside, USA*	Regulation of Mosquito Metabolism
9:10-9:40	**Qiyong Liu** *ICDC, Chinese Center for Disease Control and Prevention, China*	Evolution and ecology of vector borne diseases-known and unknown
9:40-10:10	**Steven Su** *West Valley Mosquito and Vector Control District, USA*	From West Nile virus infections in the USA to Dengue outbreaks in China
10:10-10:30	**Tea Break**	
10:30-11:00	**Jimin Sun** *Zhejiang CDC, China*	Meteorological and environmental determinants for severe fever with thrombocytopenia syndrome spatial-temporal dynamics
11:00-11:30	**Abdelrafie M. Makhawi** *University of Bahri, Sudan*	*Anopheles funestus* one of the main malaria vector in Africa
11:30-12:00	**Aihua Zheng** *Institute of Zoology, Chinese Academy of Sciences, China*	Envelope protein glycosylations and vector competence of flaviviruses

Qiyong Liu

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Prof. & Director, *WHO* Collaborating Center for Vector Surveillance and Management, Depart. of Vector Biology and Control, Assistant Director, National Institute for Communicable Diseases Control and Prevention, Chinese Center for Disease Control and Prevention (China CDC). He has been engaged in the researches and control practices on varied disease vectors and vector borne diseases for public health since 1985. He focuses on vector and vector borne disease surveillance, alert and control.

Alexander S. Raikhel

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Distinguished Professor, University of California Presidential Chair, Mir Mulla Endowed Chair, Member of the National Academy of Sciences, University of California Riverside. He studied regulatory pathways controlling various aspects of mosquito reproductive biology. He has over 190 peer-reviewed and review publications on this topic. His research has contributed significantly towards the elucidation of mechanisms regulating the egg maturation in mosquitoes.

Abdelrafie M. Makhawi

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He works in Department of Biotechnology, College of Applied & Industrial Sciences, University of Bahri. His research interest is the population genetics, phylogenetics and ecology of members of the *Anopheles arabiensisin* Sudan and speciation of *An. funestus* group and their role in malaria transmission in Sudan.

Steven Su

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Scientific Programs Sirector, West Valley Mosquito and Vector Control District in California; Chief Executive Officer and Founder, EcoZone International LLC in California. Major research interests are integrated management of vectors and vector-borne diseases, and environmentally friendly pesticide development as well as pesticide resistance management, also focusing on vector-born pathogen detection by molecular technology.

Jimin Sun

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Section chief of division for vector-borne and zoonotic disease control and prevention, Zhejiang CDC. He is in charge of research and surveillance of vectorborne and zoonotic disease especially some emerging infectious diseases and imported diseases. His research programme focus on epidemiology, spatial-temporal dynamics and control measures on Dengue fever, Zika virus, severe fever with thrombocytopenia syndrome virus, Ebola, Bartonella, and so on.

Aihua Zheng

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Dr. Aihua Zheng is a professor at Institute of Zoology, Chinese Academy of Sciences. The aims of his research are to uncover the molecular mechanism underlying the transmission of flaviviruses by arthropod vectors and new strategyis to control flavivirus epidemic at the vector level.