International Symposium on Virus Diseases of Important Crop

Date

2-5 September 2019

Venue

International Conference Hall, 10th Floor, College of Agriculture and Natural Resources

National Chung Hsing University (NCHU), Taichung, Taiwan

Convener

Prof. Shyi-Dong Yeh, Department of Plant Pathology, NCHU

Organizer

Prof. Fuh-Jyh Jan, Dean of College of Agricultural and Natural Resources, NCHU

Co-organizers

Prof. Yuh-Kun Chen, Chairman of Department of Plant Pathology, NCHU

Prof. Jeremy J.W. Chen, Director of Biotechnology Center, NCHU

Prof. Jun-Yi Yang, Director of Graduate Institute of Biochemistry, NCHU

Prof. Tsung-Chi Chen, Professor of Department of Biotechnology, Asia University

Sponsors

College of Agriculture and Natural Resources, NCHU

Department of Plant Pathology, NCHU

Biotechnology Center, NCHU

Graduate Institute of Biochemistry, NCHU

Ministry of Science and Technology Research Promotion Center of Life Sciences

Objective

In the recent decade, new sequencing technologies promote the exploration of viruses in their natural hosts without the need for virus isolation and gene cloning. The convenient international trade facilitates the global migration of viruses and their vectors via the export/import of viruliferous propagative materials or products of crops. The agricultural industries are facing the challenge of new emerging viruses. Besides, plant viruses cannot be efficiently controlled by chemicals and their affected areas are usually rapidly expanded by vector insects. It is urgent to take measures to reduce the damage caused by plant virus diseases for the purpose of mass production and a stable supply of agricultural products. In this symposium, the latest research achievements on new emerging plant viruses and the control measures for important virus diseases in East Asian countries will be emphasized, aiming at promoting academic exchange and collaboration among related researchers.

Tentative Program

Monday, September 2: Arrival at the Splendor Hotel in Taichung

Symposium

Tuesday, September 3				
08:30~09:00	Registration			
09:00~09:30	Opening Ceremony & Group Photo			
09:30~10:10	Opening Keynote Speech	Moderator:		
	Prof. Savithramma Dinesh-Kumar (USA)	Prof. Yeh, Shyi-Dong		
	Emerging perspectives on NLR immune receptor-			
	mediated immunity to viruses			
10:10~10:30	Coffee Break			
Session 1: Emerging Viruses and Epidemiology				
Moderator: Prof. Wong, Sek-Man				
10:30~11:00	Keynote Speech			
	Prof. Iwai, Hisashi (Japan)			
	Potyvirus causing passionfruit malformation in the	Western Pacific region		

11:20~11:40 Dr. Okuda, Mitsuru (Japan) Emergence and spread of tospovirus diseases in Japan 11:40~12:00 Dr. Hoang Anh Ta (Vietnam) Present status of rice virus diseases in Vietnam and their control 12:00~13:30 Lunch Session 2: Virus Characterization and Detection Moderator: Prof. Iwai, Hisashi 13:30~14:00 Keynote Speech Prof. Wong, Sek-Man (Singapore) Unique genome structure of Hibiscus latent Singapore virus 14:00~14:20 Prof. Chang, Chin-An (Taiwan) Development and application of multiplex detection technology of passionfruit viruses 14:20~14:40 Prof. Jan, Fuh-Jyh (Taiwan) Identification and molecular characterization of a new cucurbit-infecting tobamovirus in Taiwan 14:40~15:00 Dr. Deng, Ting-Chin (Taiwan) Maize lethal necrosis disease (MLND) in Taiwan 15:00~15:20 Prof. Ha Viet Cuong (Vietnam) Detection and Identification of tospoviruses in Vietnam 15:20~15:40 Coffee Break Section 3: Molecular Virology Moderator: Prof. Suzuki, Nobuhiro Keynote Speech Prof. Yeh, Shyi-Dong (Taiwan) Current advances on control of plant virus diseases by cross protection 16:10~16:30 Dr. Lin, Na-Sheng (Taiwan) MiR398 plays a regulatory role in Bamboo mosaic virus infection 16:30~16:50 Prof. Tsai, Ching-Hsiu (Taiwan) The recent discoveries of the host factors involved in Bamboo mosaic virus replication	11:00~11:20	Prof. Chen, Yuh-Kun (Taiwan)		
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Production of epitope vaccines using Bamboo mosaic virus platform		Production of epitope vaccines using Bamboo mosaic virus platform		

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17:10~17:30	Prof. Chiang, Chu-Hui (Taiwan)	
	Plant viral vector expressed edible vaccine of American cockroach	
	hypoallergen prevents roach-allergic asthma	
18:30~21:00	Welcome Dinner	
Wednesday, September 4		
08:30~09:00	Registration	
Section 4A: Virus Resistance and Control Measures		
	Moderator: Prof. Savithramma Dinesh-Kumar	
09:00~09:30	Keynote Speech	
	Prof. Suzuki, Nobuhiro (Japan)	
	Dicer functions transcriptionally and post-transcriptionally in a multilayer	
	antiviral defense	
09:30~09:50	Dr. Yeh, Hsin-Hung (Taiwan)	
	Plant A20/AN1 proteins play important roles in salicylic acid-mediated	
	antiviral immunity	
09:50~10:10	Prof. Tsai, Wen-Shi (Taiwan)	
	Identification of squash resistance against leaf curl begomovirus in	
	Taiwan	
10:10~10:30	Coffee Break	
	Section 4B: Virus Resistance and Control Measures	
	Moderator: Prof. Wei, Taiyun	
10:30~10:50	Dr. Tomitaka, Yasuhiro (Japan)	
	Virus control using attenuated virus strains	
10:50~11:10	Prof. Chen, Tsung-Chi (Taiwan)	
	Development of recombinant vaccines against potyviruses and	
	orthotospoviruses	
11:10~11:30	Prof. Lin, Shih-Shun (Taiwan)	
	The function of P1/HC-Pro in gene silencing suppression	
11:30~11:50	Dr. Thi Bich Ngoc Nguyen (Vietnam)	
	Virus diseases on passion fruit in Vietnam	
11:50~12:10	Prof. Wei, Jing (China)	
	Synergism between Rice stripe mosaic virus and Rice gall dwarf virus	
	enhances their insect vector transmission	
12:10~13:30	Lunch	
13:30~17:00	Field Trip: Cultivation and Virus Diseases of Orchid	
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Thursday, September 5		
08:30~09:00	Registration	
Section 5: Virus Detection and Epidemiology		
Moderator: Prof. Chen, Yuh-Kun		
09:00~09:30	Keynote Speech	
	Prof. Tsuda, Shinya (Japan)	
	Emergence and management of viruses and viroids in 21st century,	
	Japan	
09:30~09:50	Dr. Cheng, Ying-Huey (Taiwan)	
	Occurrence of tomato leaf curl disease-associated recombinant	
	begomoviruses in Taiwan	
09:50~10:10	Dr. Chen, Chin-Chih (Taiwan)	
	Development and application of Plantago asiatica mosaic virus (PIAMV)	
	detection reagents on quarantine and inspection for imported lily bulbs in	
	Taiwan	
10:10~10:30	Coffee Break	
	Section 6: Virus-Insect Vector Interactions	
	Moderator: Prof. Tsuda, Shinya	
10:30~11:00	Keynote Speech	
	Prof. Wei, Taiyun (China)	
	Molecular mechanisms enabling the transmission of rice reoviruses by	
	insect vectors	
11:00~11:20	Dr. Huang, Li-Hsin (Taiwan)	
	Occurrence and retention of Tomato chlorosis virus by Bemisia tabaci on	
	tomato in Taiwan	
11:20~11:40	Prof. Tsai, Chi-Wei (Taiwan)	
	The competition of two tomato begomoviruses in Taiwan from the aspect	
	of vector transmission	
11:40~12:00	Prof. Zhang, Xiaofeng (China)	
	The replication and transmission of a rice rhabdovirus in its insect vector,	
	leafhopper	
12:00~12:10	Closing Remarks	
12:10~13:30	Lunch	
13:30~17:00	Field Trip: Cultivation and Virus Diseases of Papaya & Passionfruit	
18:30~21:00	Farewell Dinner	