



Sept. 13~16, 2017

International  
Convention Center  
Jeju, South Korea

# **Scientific Program** *of* **Asian Conference** *on* **Plant Pathology** **2017**

**Translation from  
Genomes to Disease  
Management**



The Korean Society of Plant Pathology

<http://www.acpp2017.org>



# Registration & Abstract Submission

On-line registration is available until July 31, 2017 through the ACP2017 website (<http://acpp2017.org>)

Unit: US \$ (KRW) 1\$=1,200 KRW	Regular by July 31		On Site	
	Faculty/ Research associate	Postdoc / Student	Faculty/ Research associate	Postdoc / Student
ACPP only (Sep. 13~16)	400 (480,000)	250 (300,000)	500 (600,000)	300 (360,000)
Japan-Korea Joint Symposium & ACP2017 (Sep. 12-16)	450 (540,000)	250 (300,000)	600 (720,000)	300 (360,000)

For the PSJ members who want to attend only in the Japan-Korea Joint symposium, one-site registration (\$ 100) will be possible

Registration fee includes : Full access to all events during the conference [Scientific sessions, workshops and exhibitions] Congress kits, coffee breaks, lunch and gala dinner

## Abstract Submission

Abstract submission is available until July 31, 2017 through the ACP2017 website. In addition all revisions must be completed before July 31, 2017. Please remember that submission of an abstract does not register you for the conference. If you would like to submit an abstract directly or have any trouble with online submission, please send an abstract by e-mail to Ho Won Jung ([hwjung@dau.ac.kr](mailto:hwjung@dau.ac.kr)).

## Important Dates

	Regular
Registration	~ July 31, 2017
Abstract submission	~ July 31, 2017
Accommodation	~ July 31, 2017

## Tips for Poster Presentation

The maximum size allocated for each poster is 90 cm x 120 cm. Be sure to use a type size and font that will be easily readable.

All presenters should set up posters in the poster area (foyer at 5<sup>th</sup> floor of the building) until 13:00 on September 13 and take down posters by 17:00 on September 15.

Please join your colleagues for some creative discussions in the poster area.

**Accommodation** Reservation of a hotel is available through the ACP2017 website.

## Booyoung Jeju

The closest hotel to ICC Jeju, Grade : 5 Star



### Address :

222, Jungmungwangwang-ro, Seogwipo-si, Jeju-do, South Korea

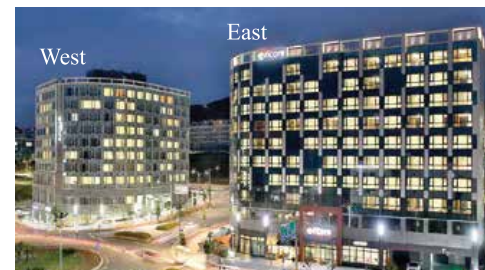
### Access to the Hotel from Jeju airport :

- Bus [Bus No. 600, every 20-25min.]
- Travel time : approximately 60 min.
- Operating time : 06:20-22:00
- Bus fare : 4,500 KRW
- Bus stop : Gate 5 at Jeju airport

**Homepages :** <https://www.booyoungjejuhotel.com/>

## Ramada Encore Jeju Seogwipo East & West

Special discounted rates for participants of 2017 ACP2017



### Address :

East > 65 Seohojung-ro, Seogwipo-si, Jeju-do, 697-100, South Korea  
West > 55 Seohojung-ro, Seogwipo-si, Jeju-do, 697-100, South Korea

### Access to the hotels from Jeju airport :

- Bus [Bus No. 800, every 40 min.]
- Travel time : approximately 50 min.
- Operating time : 06:35-21:55
- Bus stop : Gate 5 at Jeju airport
- Shuttle bus will be available from the hotel to the ICC during the conference (10 min.)

### Homepages :

East > <https://www.wyndhamhotels.com/ramada/seogwipo-si-south-korea/ramada-encore-jeju-seogwipo/overview>  
West > <http://www.ramadaencorejejuseogwipo.com/>

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## Invitation

On behalf of the Asian Conference on Plant Pathology 2017 (ACPP 2017) organizing committee, we would like to invite you to attend the ACPP 2017, which will be held at International Convention Center (ICC) in Jeju, South Korea, from September 13-16, 2017.

Asia is the most populous continent. Over 60% of human population live in this continent and the population of Asia will be increased for the next ten years. Now we are faced with lots of threats, such as climate changes, epidemic of plant diseases, and environmental pollutions, which disturb sustainable supply of foods and natural resources for diverse industries. Considering it, plant disease is a significant threat to food security for many nations. It is therefore imperative to devise the novel and stable control strategies for plant disease, which requires understanding of plant pathogens and the interaction between host and pathogen. Asian Conference of Plant Pathology (ACPP) has been the forum to foster collaborations among scientists around the world, especially Asia. Not surprisingly, much progress has taken place in a wide range of research topics on the biology, genomics, host-pathogen interactions, resistance, and disease management. To share the recent advancement in scientific researches and to broaden our understanding of plant diseases, we host the 6th ACPP in Jeju, a beautiful island of South Korea. We cordially invite you to this exciting meeting held in this place, the UNESCO Heritage!

The meeting promises to be an exciting venue to update you on most topics of plant pathology, from diagnosis to biotechnology. It is anticipated that over 700 participants will attend the conference, providing a unique opportunity to promote scientific collaboration. Welcome reception and conference dinner will also be held during the conference.

Please register for the meeting and submit your abstract for presentation or for poster. The various deadlines for the meeting are posted on the 6th ACPP website at <http://acpp2017.org>.

Please let us know if you need any further assistance for your participation. We will look forward to seeing you in Jeju, South Korea.



**Heung-Tae Kim**

Chairperson

Local Organizing Committee of the ACPP 2017



**Yong-Hwan Lee**

President

The Korean Society of Plant Pathology

# Timetable of the ACPP 2017

Sep. 12 (Tue)		Sep. 13 (Wed)		Sep. 14 (Thu)		Sep. 15 (Fri)		Sep. 16 (Sat)
08:00	08:00-08:30	Registration -Lobby-	08:00-08:30	Poster Viewing	08:00-08:30	Poster Viewing	09:00	
	08:30-09:00		08:30-09:00		08:30-09:00			
	09:00-09:30	Opening ceremony -Tamna Hall A-	09:00-09:40	Plenary Lecture III-1 -Halla Hall-	09:00-09:40	Plenary Lecture V-1 -Halla Hall-		
	09:30-10:10	Plenary Lecture I-1 -Tamna Hall-	09:40-10:30	Plenary Lecture III-2 -Halla Hall-	09:40-10:30	Plenary Lecture V-2 -Halla Hall-		
	10:10-10:50	Plenary Lecture I-2 -Tamna Hall-	10:30-10:50	Coffee Break	10:30-10:50			
	10:50-11:10	Coffee Break	10:50-11:30	Plenary Lecture IV-1 -Halla Hall-	10:50-11:30	Plenary Lecture VI-1 -Halla Hall-		
	11:10-11:50	Plenary Lecture II-1 -Tamna Hall-	11:30-12:10	Plenary Lecture IV-2 -Halla Hall-	11:30-12:10	Plenary Lecture VI-2 -Halla Hall-		
13:00 ~ 18:30	11:50-12:30	Plenary Lecture II-2 -Tamna Hall-	12:10-13:20	Lunch	12:10-13:30	Lunch	17:00	Excursions
	12:30-14:00	Lunch	13:20-15:20	Country Report I -Halla Hall-	13:30-15:10	Concurrent Session 5 -Halla Hall- / Concurrent Session 6 -Samsa Hall-		
	14:00-15:40	Concurrent Session 1 -Halla Hall- / Concurrent Session 2 -Samsa Hall-	15:20-15:40	Coffee Break	15:10-15:30	Coffee Break		
	15:40-17:00	Poster Presentation (odd number) -Foyer-	15:40-17:40	Country Report II -Halla Hall-	15:30-17:10	Concurrent Session 7 -Halla Hall- / Concurrent Session 8 -Samsa Hall-		
	17:00-18:40	Concurrent Session 3 -Halla Hall- / Concurrent Session 4 -Samsa Hall-	17:40-19:00	Poster Presentation (even number) -FOYER, 5F-	17:30-18:30	Closing Ceremony -Tamna Hall B&C-		
	19:00-21:30	Mixer -Ocean View-	18:40-20:30	Poster Viewing	19:00-20:30	Banquet -Tamna Hall B&C-		

## Venue

International Convention Center Jeju

<http://iccjeju.co.kr/EN/Main> Tel : +82-64-735-1000

## Access to ICC from Jeju airport

Bus [No. 600, every 20-25 min.]

Travel time: approximately 60 min.

Operating time : 06:20-22:00

Bus fare : 4,500 KRW

Bus stop : Gate 5 at Jeju airport

Taxi

Travel time : approximately 45 min.

Fare : approximately 30,000 KRW-depending on traffic



# Scientific Program

## Plenary Lecture I & II : Sep. 13, Tamna Hall , 5<sup>th</sup> Floor

PL I-1 <b>Dr. Greg Johnson</b> [09:30~10:10]	Australian Centre for International Agricultural Research, Australia	PL I-2 <b>Dr. Young Jin Koh</b> [10:10~10:50]	Sunchon National University, Korea
Plant pathology for next generation		Translational research on bacterial canker of kiwifruits in Korea	
PL II-1 <b>Dr. Xingyao Zhang</b> [11:10~11:50]	Chinese Academy of Forestry, China	PL II-2 <b>Dr. Kyu-Ock Yim</b> [11:50~12:30]	Animal and Plant Quarantine Agency, Korea
Pine wilt disease in China		Role of international standards for phytosanitary measures (ISPMs) in pest management	

## Plenary Lecture III & IV : Sept. 14, Halla Hall, 3<sup>rd</sup> Floor

PL III-1 <b>Dr. Choong-Min Ryu</b> [09:00~09:40]	Korea Research Institute of Bioscience and Biotechnology, Korea	PL III-2 <b>Dr. Geunhwa Jung</b> [09:40~10:30]	University of Massachusetts, U.S.A.
Plant up and down plasticity: root immunity and micro- biota modification by aboveground insect infestations		How to maximize efficacy of turfgrass fungicides?	
PL IV-1 <b>Dr. You-Liang Peng</b> [10:50~11:30]	China Agricultural University, China	PL IV-2 <b>Dr. Sek-Man Wong</b> [11:30~12:10]	National University of Singapore, Singapore
A switch for transition from biotrophy to necrotrophy in <i>Magnaporthe oryzae</i>		Discovery and studies on <i>Hibiscus latent Singapore virus</i>	

## Plenary Lecture V & VI : Sept. 15, Halla Hall, 3<sup>rd</sup> Floor

PL V-1 <b>Dr. Ryohei Terauchi</b> [09:00-09:40]	Kyoto University & Iwata Biotech Research Center, Japan	PL V-2 <b>Dr. Jin-Rong Xu</b> [09:40-10:30]	Purdue University, U.S.A.
<i>Magnaporthe</i> -rice molecular interaction as revealed by genomics		RNA editing and ascosporogenesis in <i>Fusarium graminearum</i>	
PL VI-1 <b>Prof. Masafumi Shimizu</b> [10:50~11:30]	Gifu University, Japan	PL VI-2 <b>Dr. Angela Sessitsch</b> [11:30~12:10]	Austrian Institute of Technology, Austria
Challenges for biological control of soil-borne diseases		Bacterial endophytes: ecology, functioning and how plants can benefit	



## Concurrent Session 1 : Subtropical & Tropical Plant Disease

14:00-15:40, Sept. 13, Halla Hall, 3<sup>rd</sup> Floor

<b>Dr. Toru Iwanami</b> [14:00~14:25]	NARO Institute of Fruit Tree and Tee Science, Japan	<b>Dr. Jae Wook Hyun</b> [14:25~14:50]	National Institute of Horticultural & Herbal Science, Korea
Strategy and techniques to control citrus greening in the sub-tropical islands of Japan		Citrus scab pathogen: pathotypes, infection and symptom development	
<b>Dr. Dzarifah Mohamad Zulperi</b> [14:50~15:15]	Universiti Putra, Malaysia	<b>Dr. Yan Zhou</b> [15:15~15:40]	Citrus Research Institute of CAAS, China
Characterization and pathogenicity of <i>Pantoea stewartii</i> causing fruit bronzing of Jackfruit ( <i>Artocarpus heterophyllus</i> ), a new emerging disease in Malaysia		<i>Citrus yellow vein clear virus</i> , a new citrus virus in China	

## Concurrent Session 2 : Plant Diagnosis & Quarantine

14:00-15:40, Sep. 13, Samda Hall, 3<sup>rd</sup> Floor

<b>Dr. Shinji Kanayama</b> [14:00~14:25]	Nippon Gene Co., Ltd, Japan	<b>Dr. Jae-Soon Cha</b> [14:25~14:50]	Chungbuk National University, Korea
Development and application of plant pathogen detection kits		Pathovar-specific marker development for detection of phytopathogenic bacteria	
<b>Dr. Ting-Ting Dai</b> [14:50~15:15]	Nanjing Agricultural University, China	<b>Dr. Jang-Kyun Seo</b> [15:15~15:40]	Seoul National University, Korea
Development of a loop-mediated isothermal amplification (LAMP) assay for detection of <i>Phytophthora</i> spp.		Emerging plant virus diseases in Korea and strategies for effective control	

## Concurrent Session 3 : Genomics and Phytobiome

17:00-18:40, 13 September 2017, Halla Hall, 3<sup>rd</sup> Floor

<b>Dr. Daohong Jiang</b> [17:00~17:25]	Huazhong Agricultural University, China	<b>Dr. Yuki Ichinose</b> [17:25~17:50]	Okayama University, Japan
Multi-interaction among plant, pathogenic fungus, mycovirus and mycophagous insect		Quorum sensing and environmental adaptation of <i>Pseudomonas syringae</i>	
<b>Dr. Sung-Hwan Yun</b> [17:50~18:15]	Soonchunhyang University, Korea	<b>Dr. Zhong Wei</b> [18:15~18:40]	Nanjing Agricultural University, China
Genome-wide analysis of fungal genes involved in disease development caused by <i>Fusarium graminearum</i> and <i>F. fujikuroi</i>		Initial soil microbiome composition predicts host plant health	

## Concurrent Session 4 : Chemical Control

17:00-18:40, Sept. 13, Samda Hall, 3<sup>rd</sup> Floor

<b>Dr. George W. Sundin</b> [17:00~17:25]	Michigan State University, U.S.A	<b>Dr. Jaap Smedema</b> [17:25~17:50]	Bayer Crop Science, Deutschland
Management of fire blight disease of pome fruit in humid climates		Modern nematode control strategies for Asian agriculture	
<b>Dr. Nakajima Yoshihide</b> [17:50~18:15]	Syngenta, Japan	<b>Dr. Yong-Ki Kim</b> [18:15~18:40]	Pace International, U.S.A.
“ADEPIDYN™, syngenta’s new broad spectrum fungicide for multiple crops in north east Asia		Challenges and opportunities for chemical control of postharvest diseases in fruits	

## Concurrent Session 5 : Molecular Plant Pathology

13:30-15:10, Sept. 15, Halla Hall, 3<sup>rd</sup> Floor

<b>Dr. Kook-Hyung Kim</b> [13:30~13:55]	Seoul National University, Korea	<b>Dr. Rosa Lozano-Duran</b> [13:55~14:20]	Chinese Academy of Science, China
Understanding plant RNA virus-host interactions: <i>Soybean mosaic virus</i> as a model system		Deciphering the viral manipulation of the cell: geminiviral C4 rewires development and suppresses defense	
<b>Dr. Chatchawan Jantasuriyarat</b> [14:20~14:45]	Kasetsart University, Thailand	<b>Dr. Alberto Macho</b> [14:45~15:10]	Chinese Academy of Science, China
Emergence of novel aggressive allele, avirulence gene <i>AVR-Pik</i> , in rice blast isolates in Thailand		Deciphering the subversion of plant cellular functions by <i>Ralstonia solanacearum</i> type-III effectors	

## Concurrent Session 6 : Biological Control

13:30-15:10, Sept. 15, Samda Hall, 3<sup>rd</sup> Floor

<b>Dr. Aj Kasem Soyong</b> [13:30~13:55]	King Mongkut's Institute of Technology Ladkrabang, Thailand	<b>Dr. Quang Le Dang</b> [13:55~14:20]	Vietnam Institute of Industrial Chemistry, Vietnam
Research and development of bio products for organic crop cultivation		Natural products from the Vietnamese medicinal plants with antimicrobial activity against phytopathogenic fungi and bacteria	
<b>Dr. Yasuhiro Inoue</b> [14:20~14:45]	Central Region Agricultural Center, Japan	<b>Dr. Jin-Cheol Kim</b> [14:45~15:10]	Chonnam National University, Korea
Development of biological control agents in Japan		Discovery and application of fungal metabolites for the control of root knot nematodes	

## Concurrent Session 7 : Grain Crop Disease

15:30~17:10, Sept. 15, Halla Hall, 3<sup>rd</sup> Floor

<b>Dr. Theresa Lee</b> [15:30~15:55]	National Institute of Agricultural Science, Korea	<b>Dr. Gong You Chen</b> [15:55~16:20]	Shanghai Jiao Tong University, China
Toxigenic <i>Fusarium</i> species present in Korean cereals		iTALEs of <i>Xanthomonas oryzae</i> overcome Xa1-mediated resistance in rice	
<b>Dr. Il-Ryong Choi</b> [16:20~16:45]	International Rice Research Institute, Philippine	<b>Dr. Rosemary Shrestha</b> [16:45~17:10]	International Maize and Wheat Improvement Center, Mexico
Distribution of the gene controlling resistance to <i>Rice tungro spherical virus</i> among 3,000 rice genotypes		Germplasm data management strategies and tools for crop improvement	

## Concurrent Session 8 : Horticultural Crop Disease

15:30~17:10, Sept 15, Samda Hall, 3<sup>rd</sup> Floor

<b>Dr. Nai-Chun Lin</b> [15:30~15:55]	National Taiwan University, Republic of China(Taiwan)	<b>Dr. Chika Tateda</b> [15:55~16:20]	Iwate Biotechnology Research Center, Japan
Alleviating succession cropping obstacle of celery in Taiwan by application of beneficial bacteria and silicon		The dissection of resistance mechanism in Gentian against <i>Septoria gentianae</i>	
<b>Dr. Byoung-Cheol Kang</b> [16:20~16:45]	Seoul National University, Korea	<b>Dr. Shuilin He</b> [16:45~17:10]	Fujian Agriculture and Forestry University, China
Genomics-assisted cloning and characterization of the <i>Tomato spotted wilt virus</i> resistance gene <i>Tsw</i> in Capsicum		The molecular mechanism underling the <i>CaWRKY</i> mediated responses of pepper to high-temperature-high-humidity stress or <i>Ralstonia solanacearum</i> attack	

## Local Organizing Committee

<b>Executive committee</b>	<b>Heung Tae Kim</b> htkim@chungbuk.ac.kr Duck Hwan Park dhp@kangwon.ac.kr	Ho Won Jung hwjung@dau.ac.kr Chang-Sik Oh co35@khu.ac.kr
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## Country Reports I

13:20~15:20, Sep. 14, Halla Hall, 3<sup>rd</sup> Floor

<b>KOREA</b> <b>Dr. Sunggi Heu</b>	National Institute of Crop Science	<b>THAILAND</b> <b>Dr. Amara Chinaphuti</b>	Department of Agriculture (DOA)
Disease incidence of crops in Korea		Modernization of plant diseases management in Thailand	
<b>INDONESIA</b> <b>Dr. Ir. Suryo Wiyono</b>	Bogor Agricultural University	<b>BANGLADESH</b> <b>Dr. Md. Tofazzal Islam</b>	Bangabandhu Sheikh Mujibur Rahman Agricultural University
Biological control of plant diseases in Indonesia		Emerging fungal diseases in crop plant and their management for food security of Bangladesh	
<b>VIETNAM</b> <b>Dr. Nguyen Van Tuat</b>	Vietnamese Academy of Agricultural Sciences	<b>PARKISTAN</b> <b>Dr. Manzoor Hussain Soomro</b>	ECO Science Foundation
Newly emerging plant diseases in Vietnam and their management		Status of crop disease management in Pakistan	

## Country Reports II

15:40~17:40, Sept. 14, Halla Hall, 3<sup>rd</sup> Floor

<b>INDIA</b> <b>Dr. Pallem Chowdappa</b>	Central Plantation Crops Research Institute	<b>PHILIPPINE</b> <b>Dr. Johnny Balidion</b>	University of Philippines
Plant pathology education and research in India: present status and future challenge		TBD	
<b>IRAN</b> <b>Dr. Ardeshir Rahimi Midani</b>	Seed and plant Certification and Registration Institute	<b>MALAYSIA</b> <b>Dr. Noor Baity Saidi</b>	Universiti Putra Malaysia
Fruit tree sanitation and certification program in Iran		An update on banana diseases in Malaysia	
<b>JAPAN</b> <b>Dr. Shinya Tsuda</b>	National Agriculture and Food Research Organization	<b>CHINA</b> <b>Dr. Wenxian Sun</b>	China Agricultural University
Threats to Japanese agriculture from newly emerged plant viruses and viroids		TBD	

# The 2017 Japan-Korea Joint Symposium

DATE : September 12, 2017

Place : International Convention Center, Jeju (ICC Jeju), Korea

## Timetable

September 12, 2017 (Wed)	
08:00 ~	Registration - Lobby
13:00 ~ 13:20	Opening ceremony -Halla Hall-
13:20 ~ 13:55	Plenary lecture I-1 -Halla Hall-
13:55 ~ 14:30	Plenary lecture I-2 -Halla Hall-
14:30 ~ 14:40	Coffee break
14:40 ~ 15:15	Plenary lecture II-2 -Halla Hall-
15:15 ~ 15:50	Plenary lecture II-2 -Halla Hall-
15:50 ~ 16:00	Coffee break
16:00 ~ 18:30	Concurrent session I -Halla Hall- Concurrent session II -Samda Hall-
19:00 ~ 22:00	Mixer -Ocean View-

## Program

Plenary Lecture	
13:20 ~ 13:55	Dr. Young Ho Kim (Seoul National University, Korea) Role of wound in plant disease development and defense : Disrupter or helper?
13:55 ~ 14:30	Dr. Yasuyuki Kubo (Kyoto Prefectural University, Japan) Infection strategy of anthracnose fungus <i>Colletotrichum orbiculare</i>
14:40 ~ 15:15	Dr. Jin-Hyuk Kwon (Gyeongsangnam-do Agricultural Research and Extension Service, Korea) TBD
15:15 ~ 15:50	Dr. Hirofumi Suzuki (Mie Prefecture Agricultural Research Institute, Japan) Current status of fungicide resistance and countermeasures in Japan
Concurrent Session I - Interaction Biology	
16:00 ~ 16:25	Dr. Shigery Kuwata (Meiji University, Japan) CRISPR/Cas system for genome editing of filamentous fungi
16:25 ~ 16:50	Dr. Hun Kim (Korea Research Institute of Chemical Technology, Korea) Unlocking the molecular regulation of mycotoxin biosynthesis
16:50 ~ 17:15	Dr. Yasuhiro Ishiga (University of Tsukuba, Japan) Exploring the virulence factors of <i>Pseudomonas syringae</i> pv. <i>tomato</i> DC3000
17:15 ~ 17:40	Dr. Junhyun Jeun (Yeongnam University, Korea) Is fungal genome an orphanage? : genomic insight into rice blast fungus through the lens of phylostratigraphy
17:40 ~ 18:05	Dr. Kazuhiro Toyoda (Okayama University, Japan) Mycosphaerella suppressans : host-specific determinants for plant disease
18:05 ~ 18:30	Dr. Sook-Young Park (Sunchon National University, Korea) Distribution and function of members of the <i>AVR-pita</i> gene family in population of the rice blast pathogen <i>Magnaporthe oryzae</i>
Concurrent Session II - Disease Management	
16:00 ~ 16:25	Dr. Tomohide Natsuaki (Utsunomiya University, Japan) Vancines against plant virus disease
16:25 ~ 16:50	Dr. Ki Deok Kim (Korea University, Korea) Biological control of Phytophthora blight of pepper with antagonistic bacteria in Korea
16:50 ~ 17:15	Dr. Hideo Ishii (Kibi International University, Japan) Management of scab disease on Japanese pear
17:15 ~ 17:40	Dr. Yong-Chull Jeun (Jeju National University, Korea) Disease suppression of anthracnose on cucumber plant by treatment with <i>Chlorella fusca</i>
17:40 ~ 18:05	Dr. Tsutomu Arie (Tokyo University of Agriculture and Technology, Japan) Biological control of plant disease using non-pathogenic <i>Gusarium</i> spp.
18:05 ~ 18:30	Dr. Duck Hwan Park (Kangwon National University, Korea) Current status of fire blight disease caused by <i>Erwinia amylovora</i> and actions for its management in Korea