

# Timetable

## Program at a Glance

[PL] Plenary Lecture

[AL] Award Lecture

[SPORE] Student &amp; Postdoc Research Excellence

[CS] Concurrent Session

[SS] Special Session

### Oct 21 (Tue)

Time	B Hall	A Hall
10:00~12:00	KSPP Committee Meeting	
12:00~13:00	Break	
18:00~20:00	KSPP Mixer (Invited only)	

### Oct 22 (Wed)

Time	B Hall	A Hall
09:00~12:00	Plant Virus Disease Symposium	
13:00~13:20	Opening Ceremony	
13:20~14:00	<b>PL1   B Hall</b> Doil Choi (Seoul National University)	
14:00~14:40	<b>PL2   B Hall</b> Martin I. Chilvers (Michigan State University)	
14:40~15:00	Break	
15:00~15:20	<b>Special Session   B Hall</b> Ki-Hong Jung (Kyung Hee University) <b>KOR</b>	
15:20~17:00	<b>CS1</b> Molecular Plant-Microbe Interaction	<b>CS2</b> Startups in Plant Pathology <b>KOR</b>
17:00~17:10	Group Photograph	
17:10~17:40	Council Meeting	
17:40~18:40	Poster Presentation 1 [Odd Number]	

# The 2025 KSPP FALL INTERNATIONAL CONFERENCE

Oct 23 (Thu)

Time	B Hall	A Hall
09:00~09:30	<b>PL3   B Hall</b> Hokyong Son (Seoul National University)	
09:30~10:00	<b>PL4   B Hall</b> Seon-Woo Lee (Dong-A University)	
10:00~10:20	Break	
10:20~10:50	Contest <b>KOR</b>	
10:50~11:30	<b>AL   B Hall</b> Yong-Hwan Lee (Seoul National University) <b>KOR</b> <b>ENG</b>	
11:30~13:00	Break	
13:00~14:30	<b>CS3</b> Phytobiome	<b>CS4</b> Recent Advances in Plant Protection <b>KOR</b> <b>ENG</b>
14:30~14:50	Break	
14:50~16:30	<b>CS5</b> Biology of Plant Pathogens	<b>CS6</b> Plant Quarantine <b>KOR</b>
16:30~17:00	Break	
17:00~18:10	<b>Poster Presentation 2</b> [Even number]	
18:10~18:30	General Assembly Meeting	
18:30~20:00	Banquet	

Oct 24 (Fri)

Time	B Hall	A Hall
09:00~10:00	<b>CS7</b> SPORE(1)	<b>CS8</b> SPORE(2) <b>KOR</b>
10:00~10:20	Break	
10:20~11:20	<b>CS9</b> SPORE(3)	<b>CS10</b> SPORE(4) <b>KOR</b>
11:20~11:40	Break	
11:40~12:10	<b>PL5   B Hall</b> Jang Hoon Lee (BASF Korea) <b>KOR</b>	
12:10~12:40	Closing Ceremony	-

## Program

Oct. 22 (Wed)

### Plenary Lecture 1

B Hall

**Chair.** Prof. Hye-Young Lee (Gyeongsang National University)

13:20~14:00    Nonhost Resistance in Plants  
Prof. Doil Choi (Seoul National University)

### Plenary Lecture 2

B Hall

**Chair.** Prof. Hyunkyu Sang (Chonnam National University)

14:00~14:40    Field Crop Disease Management in the United States  
Prof. Martin I. Chilvers (Michigan State University, USA)

### Special Session KOR

B Hall

**Chair.** Prof. Chang-Sik Oh (Seoul National University)

15:00~15:20    Current Status and Prospects of Basic Research Support by the Life Sciences  
Division of the National Research Foundation of Korea  
Prof. Ki-Hong Jung (Kyung Hee University)

### Concurrent Session 1: Molecular Plant-Microbe Interaction

B Hall

**Chair.** Prof. Hee Jin Park (Chonnam National University)

15:20~15:45    Effector-Triggered Protein Networks Drive pH Manipulation and Hormonal  
Disruption in *Valsa mali* Pathogenesis  
Prof. Liangsheng Xu (Northwest A&F University, China)

15:45~16:10    Elucidating PR1-mediated Plant-Fungus Interactions  
Prof. Jingtao Li (Qingdao Agricultural University, China)

# The 2025 KSPF FALL INTERNATIONAL CONFERENCE

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- 16:10~16:35      Functional Profiling of Haustorium-Derived Effectors via Yeast cDNA Library Screening: Deciphering Virulence Strategies in Wheat Powdery Mildew  
Prof. Peng Cheng (Northwest A&F University, China)
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- 16:35~17:00      Leveraging TAL Effectors to Identify *Pseudomonas* Effector-Targeted Plant Cells in the Spatially Coordinated Context of ETI  
Dr. Haseong Kim (University of Tübingen, Germany)
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## Concurrent Session 2: Startups in Plant Pathology KOR

A Hall

Chair. Prof. Jin-Cheol Kim (Chonnam National University)

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- 15:20~15:45      Obtaining Government Funding Strategy for Beginning Stage Startup  
Tae Gyu Han (UNIST Holdings)
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- 15:45~16:10      Fundraising Strategy for Early Startup Company  
Tae Gyu Han (UNIST Holdings)
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- 16:10~16:35      Investment Trend and Case Study in Plant Industry  
Jun hyun Lim (PathfinderH)
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- 16:35~17:00      Application of Molecular Diagnostic Technologies for the Detection of Agricultural and Vector-Borne Pathogens: The InVirusTech Approach  
Kibeom Park (INVIRUSTECH)
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## Plant Virus Disease Symposium 1

A Hall

Chair. Prof. Ju-Yeon Yoon (Jeonbuk National University)

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| 08:30~09:10 | Registration   |
| 09:10~09:20 | Opening  |
| 09:20~09:50 | Environmental Aspects of Plant Virus Transmission and dsRNA-based Control Approaches<br>Prof. Rae-Dong Jeong (Chonnam National University) |
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09:50~10:05	<b>Topical Application of Ecofriendly Nanoparticle-derived dsRNA-nanocomposites for the Control of Pepper Mottle Virus</b> Min-Jae Kim (Chonnam National University)
10:05~10:20	<b>Screening Strategy for Novel Antivirals: In Silico and In Vitro Validation of DHA against PVY and CMV</b> Mina Park (Jeonbuk National University)

## Plant Virus Disease Symposium 2

A Hall

**Chair.** Prof. Jang Kyun Seo (Seoul National University)

10:40~10:55	<b>Development and Application of a Nanovirus Infection System for Studying Molecular Pathogenesis</b> Muhammad Amir Qureshi (Gyeongbuk National University)
10:55~11:10	<b>The Virus's Tiny Companion: The Secret Life of Cucumber Mosaic Virus Satellite RNA</b> Dongjoo Min (Kangwon National University)
11:10~11:25	<b>The Impact of Effect of CIPK10, a Calcium-regulated Kinase, on the Resistance Response to the Soybean Mosaic Virus</b> Huong Cam Chu (Seoul National University)
11:25~11:40	<b>Development of Large-Scale Sample Virus Detection Methods for Supplying High-Quality Soybean Seeds</b> Yeong Hwan Jeon (Kyungpook National University)
11:40~11:55	<b>Closing Ceremony &amp; Commemorative Photograph</b>
11:55~13:00	<b>Lunch</b>

# The 2025 KSPF FALL INTERNATIONAL CONFERENCE

Oct. 23 (Thu)

## Plenary Lecture 3

B Hall

※ KSPF Young Plant Pathologist Award Lecture

**Chair.** Prof. Cécile Segonzac (Seoul National University)

09:00~09:30 Integrated Molecular Approaches for Exploring Development and Virulence in *Fusarium* spp.

Prof. Hokyoung Son (Seoul National University)

## Plenary Lecture 4

B Hall

**Chair.** Prof. Hyun Gi Kong (Chungbuk National University)

09:30~10:00 Invisible Alliances: Microbial Interactions Orchestrating Plant Microbiome Function

Prof. Seon-Woo Lee (Dong-A University)

## Contest KOR

B Hall

**Chair.** Prof. Hokyoung Son (Seoul National University)

10:20~10:50 Plant Disease Diagnosis Contest Using Symptom Images

식물병징 사진을 이용한 식물병 진단 경진대회

## Award Lecture ENG KOR

B Hall

**Chair.** Prof. Sook-Young Park (Sunchon National University)

10:50~11:30 The Rice Blast Fungus, *Magnaporthe oryzae*: Biology and Beyond

Prof. Yong-Hwan Lee (Seoul National University)

B Hall

**Concurrent Session 3: Phytobiome****Chair.** Prof. Kihyuck Choi (Dong-A University)

- 13:00~13:25    **Spermosphere Microbial Assembly in Seedling Establishment**  
Prof. Zachary Noel (Auburn University, USA)
- 13:25~13:50    **Leaf-Inhabiting Lichen *Strigula* and Its Effects on Host Foliar Mycobiomes**  
Prof. Seungyoon Oh (Changwon National University)
- 13:50~14:10    **Seed Microbiome and Associated Bacteria Confer Seed Rot Resistance to Soybean Red Crown Rot**  
Prof. Ping-Hu Wu (National Pingtung University of Science and Technology, Taiwan)
- 14:10~14:30    **The Microbiome of *Zoysia japonica*: Diversity and Antifungal Properties of Rhizospheric and Endophytic Microbes**  
Prof. Haifeng Liu (Yangtze University, China)

A Hall

**Concurrent Session 4: Recent Advances in Plant Protection** ENG KORCo-organized by National Institute of Agricultural Sciences  국립농업과학원**Chair.** Prof. Seung-Yeol Lee (Kyungpook National University)

- 13:00~13:25    **The Genetic Basis of Begomovirus Resistance in Pepper and its Application to Breeding**  
Prof. Sota Koeda (Kindai University, Japan)
- 13:25~13:50    **Tackling Dollar Spot: Practical Management of Turfgrass's Most Economically Significant Fungal Disease**  
Prof. Geunhwa Jung (University of Massachusetts, Amherst, USA)
- 13:50~14:10    **Resistance to Diamide Insecticides in *Bemisia tabaci* Mediated by Phase I and Phase II Detoxification Enzymes**  
Prof. Lei Li Guo (Qingdao Agricultural University, China)
- 14:10~14:30    **Genetic Diversity and Antibiotic Resistance of *Erwinia amylovora* Causing Fire Blight in Korea**  
Dr. Hyeonheui Ham (Rural Development Administration)

## Concurrent Session 5: Biology of Plant Pathogens


B Hall

Chair. Prof. Kyunghun Min (Pukyong National University)

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| 14:50~15:15 | Diversity of Plasmid Composition and Plasmid-Borne Virulence Genomic Islands in <i>Clavibacter michiganensis</i> to Determine Virulence in Host Plants<br>Prof. Chang-Sik Oh (Seoul National University) |
| 15:15~15:40 | <i>Rhizoctonia</i> Genomics - From Sclerotia-forming Capability to Fungicide Resistance<br>Prof. Hao-Xun Chang (National Taiwan University, Taiwan)  |
| 15:40~16:05 | Unlocking Fungal Biosynthetic Potential for Sustainable Biopesticide Development<br>Prof. Wonyong Kim (Chonnam National University)  |
| 16:05~16:30 | Diversity of <i>Alternaria</i> species associated with Solanaceae in China<br>Prof. Jianxin Deng (Yangtze University, China)   |

## Concurrent Session 6: Plant Quarantine KOR

A Hall

Co-organized by Animal and Plant Quarantine Agency  농림축산검역본부

Chair. Prof. Eui-Joon Kil (Gyeongbuk National University)

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| 14:50~15:15 | Introduction of the Biosafety-Level 3 Facility for Plant Quarantine Pathogens Research and its Usage<br>Dr. Seong-Jin Lee (Animal and Plant Quarantine Agency) |
| 15:15~15:40 | Developing Reference Materials for Better Quarantine of High-Risk Plant Viruses<br>Prof. Eui-Joon Kil (Gyeongbuk National University)                          |
| 15:40~16:05 | Morphological and Genetic Identification Platform for Plant Quarantine of Fungi and Oomycota<br>Prof. Young-Joon Choi (Kunsan National University)             |
| 16:05~16:30 | IPPC Plant Health Campus: A Global Platform for Strengthening Phytosanitary Capacity<br>Dr. Mi Chi Yea (Animal and Plant Quarantine Agency)                    |





Oct. 24 (Fri)

**Concurrent Session 7: SPORE 1****B Hall****Chair.** Prof. Ki-Tae Kim (Sunchon National University)

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|-------------|--|
| 09:00~09:15 | Actinobacterial Synthetic Community Alters the Rhizosphere Microbiota and Enhance the Tomato Health<br>Manigundan Kaari (Dong-A University)  |
| 09:15~09:30 | The Rice Transcription Factor bHLH1 Coordinates Immune Responses and Growth Regulation Through Partner-Dependent Interactions<br>Oh-Kyu Kwon (Sejong University)                                   |
| 09:30~09:45 | Interplay Between Bacterial Volatiles and Root Exudates Modulates Plant Growth and Immunity Under Pathogen Infection<br>Anahita Barghi (Dong-A University)   |
| 09:45~09:55 | Overview of the Genus <i>Pseudocercospora</i> on Vitaceous Plants in Korea with Introduction of <i>Pseudocercospora neovitis</i> sp. nov<br>Ardhianita Indi Nur Aida (Jeonbuk National University) |
| 09:55~10:05 | The Genus <i>Colletotrichum</i> in Korea: Multilocus phylogenetic Analyses and Host Plant Investigation<br>Le Dinh Thao (Rural Development Administration)   |

**Concurrent Session 8: SPORE 2****KOR****A Hall****Chair.** Prof. Heonil Kang (Pusan National University)

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|-------------|--|
| 09:00~09:15 | Selective Disruption of Immune Receptor Trafficking by the <i>Shigella</i> Effector VirA through Targeting of <i>Arabidopsis</i> PRA1.F3<br>Sung Hee Jo (Korea Research Institute of Bioscience and Biotechnology) |
| 09:15~09:30 | CRISPR-based Biosensor Coupled with RPA for Precise Detection of Fire Blight<br>Jiyun Moon (Gyeongsang National University)  |
| 09:30~09:40 | Comparative Evaluation of Multiplex qPCR and MIRA-LFA for the Simultaneous Detection of <i>Heterodera trifolii</i> and <i>Heterodera schachtii</i><br>Donggi Hong (Chungnam National University)                   |

# The 2025 KSPF FALL INTERNATIONAL CONFERENCE

09:40~09:50	Comprehensive Functional Analysis of Peptidase G1 in <i>Cryphonectria parasitica</i> Geonmin Kim (Jeonbuk National University)
09:50~10:00	Bacterial Community Structure and Interspecies Competition in Fire Blight-Associated Cankers During Winter Eon-Jin Jo (Kangwon National University)

## Concurrent Session 9: SPORE 3

B Hall

Chair. Prof. Jae Hoon Lee (Seoul National University)

10:20~10:35	Targeting Histidine Kinases: A Novel Mechanism of Resveratrol Oligomers in Plant Protection Ji Eun Kang (Michigan State University, USA)
10:35~10:50	Chloroplast-to-Nucleus Communication: Unraveling Protein Translocation and Immune Response Regulation Seungmee Jung (University of Wyoming, USA)
10:50~11:00	Mutation of Receptor-Like Cytoplasmic Kinase Confers Resistance on Soybean Plants ( <i>Glycine max</i> ) to <i>Pseudomonas syringae</i> pv. <i>syringae</i> B728a Infection Do Hui Lee (Dong-A University)
11:00~11:10	Role of Photolyase in Stress Tolerance and Virulence of Plant-pathogenic Bacterium <i>Pseudomonas cichorii</i> JBC1 Nguyen Van Khanh (Jeonbuk National University)
11:10~11:20	Utilization Pre-trained CNN Models for Plant Diseases Classification Ha Jung Kim (Jeonbuk National University)

## Concurrent Session 10: SPORE 4 KOR

A Hall

Chair. Prof. Hangil Kim (Kangwon National University)

10:20~10:35	Temperature-Dependent Modulation of Photosynthesis-Related Gene Expression in Soybeans Co-infected with Soybean Mosaic Virus and Soybean Yellow Mottle Mosaic Virus Jisoo Park (Kangwon National University)
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10:35~10:50	Development and Application of a Fungicide Resistance Model for Pepper Anthracnose Pathogen, <i>Colletotrichum scovillei</i> Jeong Hyeon Byeon (Seoul National University)
10:50~11:00	Plasma Membrane Localized Potato NLR Rpi-vnt1.1 Associates with Dynamin-Heat Shock Protein Complex to Confer Resistance Against <i>Phytophthora infestans</i> Solhee In (Seoul National University)
11:00~11:10	Classification of NCPMS Rice Panicle Blast Data for Improved Analytic Efficiency and Ecological Interpretation Euntaek Hwang (Seoul National University)
11:10~11:20	4D-DIA Proteomics Reveals Isotianil-Induced Priming in Rice Immunity Su Yeon Jeon (Pusan National University)

## Plenary Lecture 5 KOR

B Hall

**Chair.** Prof. Chang-Gi Back (Dankook University)

11:40~12:10	The Harmony of Efficacy and Safety: An Integrated Approach to Plant Disease Management Using Biofungicide-Chemical Blends Jang Hoon Lee (BASF Korea)
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