

► THE JOINT CONGRESS

9th International Weed Science Congress
29th Asian Pacific Weed Science Conference
17th China Weed Science Conference



Program

New Technology Leads the Way of Weed Science

October 19-24

Nanjing · China

中国·南京

PROGRAMME

19th October 2025 Sunday

13:30-18:00 Pre-Congress Workshop

Location: L7 736 Hall

Organizer: Bianca Assis Barbosa Martins & Roland Beffa

10:00-22:00 Registration

Location: Lobby

Local Chair Xiangju Li & Sheng Qiang (China)

18:30-21:00 Welcome Reception

Location: L5 Nanjing Hall

Chair: Samunder Singh

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PROGRAMME

20th October 2025 Monday

8:30-9:30 **Opening Ceremony**

Location: **L5 Nanjing Hall**

Chair: **Xiangju Li (Local, China)**

Opening Remarks by

IWSS President, APWSS, CWSS&CSPP.

Congratulatory Addresses by

Ministry of Agriculture and Rural Affairs of the People's Republic of China

Nanjing Municipal Government

Nanjing Agricultural University

Institute of Plant Protection, CAAS

09:30-12:30 **Keynote Presentation**

Location: **L5 Nanjing Hall**

Chair: **Bhagirath Chauhan**

09:30-10:30 Climate Change, CO₂ and Climate Change: The Peril and the Promise. Dr. **Lewis Ziska**. Environmental Health Sciences at the Mailman School of Public Health at Columbia University, US.

10:30-11:00 **Coffee Break**

Chair: **Casimero Madonna**

11:00-12:00 Minimizing Weeds and Herbicide Uses for Sustainable Crop Production. **Dr. Sheng Qiang**. Nanjing Agricultural University, China.

12:00-12:30 Tetflupyrolimet(TPT): A Breakthrough Herbicide for Sustainable Rice Production. **Dr. Sunil Kumar**, Global Technical Manager Herbicide, Syngenta Crop Protection AG. Switzerland

12:30-13:30 **Lunch+Poster Session**

13:30-15:30 **Invasive Parasitic Weeds & Microbiome**

Location: **L7 730A Hall**

Chair: **Gabriel Olulakin Adesina ; Co-Chair: Amit Paporisch**

13:30-13:45 Case Study of Phyto-invasions from NW Pakistan. **Khan Bahadar Marwat**. The University of Agriculture, Peshawar, Pakistan

Mon

13:45-14:00	Development of Novel Bioassay for Quantification of Strigolactone Transport Distance in Soil. Amit Paporisch . Department of Plant Pathology and Weed Research, Newe Ya'ar Research Center, Agricultural Research Center – Volcani Institute, Israel
14:00-14:15	Interaction Mechanism Between <i>Orobancha cumana</i> and Sunflower (<i>Helianthus annuus</i>) During Parasitic Invasion and Flowering Stages. Weijun Zhou . Zhejiang University, China
14:15-14:30	How Do Invasive Weeds Spread: An Account of the Global Invasion by Parthenium Weed. Runping Mao . Wuhan Institute of Landscape Architecture, China
14:30-14:45	Mechanism Study on Sunflower HaOr7 Gene Inducing MAPK Cascade to Enhance Lignin-mediated Resistance to Root Parasitic Weed <i>Orobancha cumana</i> . Ling Xu . Zhejiang Sci-Tech University, China

14:45-15:15 Soil-plant-microbiome Interactions in Weed Management

Location: L7 730A Hall

14:45 - 15:00	Degradation of the Herbicide Fomesafen by Soil Microorganisms. Xiaohu Wu . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
15:00 - 15:15	The Diverse Endo-microbes Recruited by <i>Oxalis</i> spp. Ru Li . Yunnan Agricultural University, China

15:30 – 16:00 **Coffee Break**

16:00-18:00 Non-Chemical Weed Management

Location: L7 730A Hall

Chair: **Simerjeet Kaur; Co-Chair: Puja Ray**

16:00 - 16:15	Maize-legume Intercropping: A sustainable Weed Management Practice for Improved Dietary Quality of Maize. Muhammad Azim Khan . The University of Agriculture Peshawar, Pakistan
16:15 - 16:30	Sustainable Weed and Soil Health Management Through Maize with Legume Intercropping in Eastern Himalayan Hills. Jeetendra Kumar Soni . ICAR-Directorate of Weed Research, Jabalpur, India
16:30 - 16:45	Seed Shattering Behavior and Viability of <i>Phalaris minor</i> and <i>Avena ludoviciana</i> : Implications for Harvest Weed Seed Control in North-Western India. Simerjeet Kaur , Punjab Agricultural University, India
16:45 - 17:00	Allelochemical N-trans-Cinnamoyltyramine from Vietnamese Rice: Bioherbicide Potential Against Invasive Weeds and Weedy Rice. Ho Le Thi , Can Tho University, Vietnam

Mon

17:00 - 17:15	<i>EcIAA9</i> Responds to Dihydrocoumarin and Its Inhibitory Effect on the Root Growth of <i>Echinochloa crus-galli</i> . Haona Yang . Hunan Academy of Agricultural Sciences, China
17:15 - 17:30	Cover Crop Degradation in Rice Leads to the Release of Potential Allelopathic Compounds. Silvia Fogliatto . University of Turin, Department of Agricultural, Forest and Food Sciences, Italy
17:30 - 17:45	Mechanical Weeding by Brush-cutter in Sweet Corn - A Drudgery Free and Energy Efficient Viable Option for Small Land Holders of Developing Nations. Chethan C.R. ICAR-Indian Agricultural Research Institute, Assam, India
17:45 - 18:00	Weed Control Strategies in Foxtail Millet Fields. Xiangyang Yuan . Shaanxi Agricultural University, China

13:30-15:30	Herbicide Physiology Biochemistry	HPB Session I
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Location:	L7 730B Hall
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Chair: Baruch Rubin; **Co-Chair:** C. X. Zhang

13:30-13:45	Resistance Breaking Capabilities of Trifludimoxazin, A Next Generation PPO-Inhibiting Herbicide. Aimone Porri . BASF SE
13:45-14:00	Design, Synthesis, and Biological Activity of Novel HPPD Inhibitors Containing Cinnamic Acid. Bingbo Guo . Institute of Cereal and Oil Crops, Hebei Academy of Agriculture and Forestry Sciences, China
14:00-14:15	Photodegradation of Diquat in Water under UV Irradiation: Identification of Transformation Products and Elucidation of Photodegradation Pathway. Fangyuan Wang . Institute of Plant Protection, Heilongjiang Academy of Agricultural Sciences, China
14:15-14:30	Establishment of a Versatile Virus-Based System for Elucidating Herbicide Resistance in <i>Galium aparine</i> . Zhike Feng . Nanjing Agricultural University, China
14:30-14:45	<i>OsGSTF1</i> Endows Higher Tolerance of <i>Oryza sativa</i> to HPPD Inhibitor Tripyrasulfone than <i>Echinochloa crus-galli</i> . Hengzhi Wang . Shandong Agricultural University, China
14:45-15:00	The CANNOT RESPOND TO DMBQ 1–GLUTAREDOXIN C1 module regulates <i>Arabidopsis</i> root growth via quinone-induced oxidation. Liang Zhang . Hunan Academy of Agricultural Sciences, China
15:00 - 15:30	Final Discussion

15:30 – 16:00	Coffee Break
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16:00-18:00	Herbicide Physiology Biochemistry	HPB Session II
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Mon

Location: L7 730B Hall

Chair: Baruch Rubin; **Co-Chair:** Masanori Morimoto

- 16:00 - 16:15** Iptriazopyrid: A Novel Azole Carboxamide-Based HPPD Inhibitor for Rice-Discovery and Mode of Action. **Takamasa Furuhashi**. Nissan Chemical Corporation, Japan
- 16:15 - 16:30** Breeding Herbicide-Resistant Rice Using CRISPR-Cas Gene Editing and Other Technologies. **Qiyu Luo**. South China Agricultural University, China
- 16:30 - 16:45** Diagnosis of Herbicide MoA Based on Spectral Image Analysis. **Tae-Kyeong Noh**. Seoul National University, Korea
- 16:45 - 17:00** Waterlogging Adaptation in the Rice Weed *Panicum bisulcatum*: Morpho-Anatomical, Physiological, and Molecular Strategies from Submerged to Emerged Stages. **Wei Tang**. China National Rice Research Institute China
- 17:00 - 17:15** Icafolin-Methyl, a New Herbicide Molecule to Manage Resistance and Unlock Greater Flexibility. **Bianca Martins**. Bayer AG, Germany
- 17:15 - 17:30** Novel HPPD Inhibitor Fusulfinam Tolerance in Rice Mediated by OsGSTU17 Associated with Detoxification and ROS Homeostasis. **Weitang Liu**. Shandong Agricultural University, China
- 17:30 - 17:45** Enantioselection Bioactivity Disturbances in the Photosynthesis of *Echinochloa crus-galli* Caused by Flusulfinam, a Novel Chiral Herbicide. **Junqi Zhu**. Guangxi University, China
- 17:45 - 18:00** Final Discussion

13:30-15:30 Weed Biology, Ecology, and Diversity WBED Session I

Location: L7 736 Hall

Chair: Ho Le Thi; **Co-chair:** Michaela Kolářová

- 13:30-13:45** Understanding the Ecological and Biological Interactions between Neutral Weed Communities and Crops across the Globe. **Marco Esposito**. Marco Esposito. Sant'Anna School of Advanced Studies of Pisa, Italy
- 13:45-14:00** Impact of Seed Burial and Imbibition on Seed Selection by Carabid Beetles. **Christian J. Willenborg**. University of Saskatchewan, Canada
- 14:00-14:15** Characterizing Weed Species Diversity in Rice for Developing Improved Weed Management Strategies in Bangladesh. **Sharif Ahmed**. Post-doctoral Fellow, International Rice Research Institute, Bangladesh
- 14:15-14:30** The Preferences of *Lumbricus terrestris* Earthworms for Weed Seeds Typical of the Northern Great Plains Agroecosystems. **Pengfei Ji**. University of Saskatchewan, Canada
- 14:30-14:45** Pollen Release and Dispersal Pattern in Alfalfa (*Medicago sativa* L.). **Chuanjie Zhang**. Yangzhou University, China

Mon

14:45-15:00	Assessing the Impact of Water Hyacinth (<i>Eicchornia crassipes</i>) in the Lake Lanao-Agus River Watershed. Juliet Candog - Bangi . Mindanao State University Main Campus, Philippines
15:00-15:15	Weed as Pathogen Reservoir: Evidence of Infection of <i>Curvularia lunata</i> (Wakker) Boedijn in <i>Rottboellia cochinchinensis</i> (Lour.) Clayton from Philippine Corn Areas. Clare Hazel R.Tabernilla . University of the Philippines, Philippines
15:15-15:30	Enhanced Remediation of Herbicide-Contaminated Soils Using Phosphate-Modified Biochar. Xingang Liu . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

15:30 – 16:00 Coffee Break

16:00-18:00 Weed Biology, Ecology, and Diversity WBED Session II

Location: L7 736 Hall

Chair: Madonna Casimero; Co-chair: Virender Kumar

16:00 - 16:15	Seed Germination Biology of 242 <i>Leptochloa chinensis</i> Populations Collected from Rice Fields of Eastern China. Guoqi Chen . Yangzhou University, China
16:15 - 16:30	Effects of Environmental Factors on Seed Germination of <i>Lolium multiflorum</i> . Siyu Yang . Shandong Academy of Agricultural Sciences, China
16:30 - 16:45	Biometry and Germination of Four Biotypes of <i>Paspalum virgatum</i> L.. Renata Santos . Para State University, Brazil
16:45 - 17:00	Effects of <i>Striga gesnerioides</i> Seed Density on Yield of Some Cowpea (<i>Vigna unguiculata</i> (L.) Walp) Varieties. Aliyu Bawuro Mustapha . Modibbo Adama University, Nigeria
17:00 - 17:15	Influence of Tillage Systems and Slope Position on Weed Seedbank Dynamics in Upland Maize Farming in Northern Thailand. Suphannika Intanon . Naresuan University, Faculty of Agriculture Natural Resources and Environment, Thailand
17:15 - 17:30	Phenotypic Variation among <i>Solanum rostratum</i> Dunal Populations in Israel: Implications for Local Adaptation and Weed Management. Maor Matzrafi . Agricultural Research Organization –Volcani Institute, Israel
17:30 - 17:45	Mechanisms of Competitive Ability of Weedy Rice in Association with Cultivated rice (<i>Oryza sativa</i> L.) in the Philippines. Leylani Juliano . Philippine Rice Research Institute, Philippine
17:45 - 18:00	Influence of Rice and Weed Planting Density, Weed Emergence Time, Inter- and Intra-Specific Competition on Growth and Prolificacy of <i>Echinochloa crus-galli</i> in Dry-Seeded Rice Ecosystem. Tahir Hussain Awan . Rice Research Institute, Kala Shah Kaku, Pakistan

Mon

PROGRAMME

21st October 2025 Tuesday

08:30-09:30	Keynote Presentation	
Location:	L5 Nanjing Hall	
Chair:	Michaela Kolářová	
08:30-9:30	From In-Field to Area-Wide: Integrating Scales and Data for Precision Agriculture and Smart Weed Management. Yafit Cohen . Agricultural and Biosystems Engineering, Agricultural Research Organization, Volcani Center, Israel	
9:30 – 10:00	Coffee Break	
10:00-12:00	Integrated Weed Management	IWM Session I
Location:	L7 730A Hall	
Chair:	Jialin Yu; Co-chair: Steve Li	
10:00-10:15	The Need for Climate Smart Ecological Weed Management Technology for Rice. Adusumilli Narayana Rao . Independant Consultant, India	
10:15-10:30	Effect of Chemical and Non-Chemical Weed Management Methods on the Weed Spectrum and Soil Residue Persistence in Drum Seeded Rice. Mohammed Ashraf . Department of Agronomy, SRM College of Agricultural Sciences, SRM Institute of Science and Technology, India	
10:30-10:45	Integrated Management of Paradoxa Grass (<i>Phalaris paradoxa</i> L.) in the Northern Grain Region of Australia. Bhagirath Chauhan . The University of Queensland, Australia	
10:45-11:00	Agroecological Weed Control in Maize and Soybean Living Labs. Milan Brankov . Maize Research Institute "Zemun Polje", Serbia	
11:00-11:15	Optimizing Weed Control Practices and Irrigation Intervals for Tomato Production in Broomrape-Infested Fields. Muhammad Fawad . College of Resources and Environmental Sciences, Nanjing Agricultural University, Pakistan	
11:15-11:30	Impacts of Soybean Spatial Arrangement and Density on Crop Yield and <i>Palmer amaranth</i> Reproduction and Germination. Fernando Oreja . Clemson University, United States.	

Tue

11:30-11:45	Herbicidal Activity of Extracts Derived from Potato Peels and Hemp Inflorescences. Francesco Vidotto . University of Torino, Italy	
11:45-12:00	Impact of Sowing Methods and Herbicide Applications on Weed Management in Wheat Cultivation. Muhammad Khan . Department of Weed Science and botany, the University of Agriculture Peshawar, Pakistan	
12:00-13:30	Lunch Break + Poster Session	
13:30-15:45	Integrated Weed Management	IWM Session II
Location:	L7 730A Hall	
Chair:	Soo-Hyun Lim; Co-chair: Xiaoling Song	
13:30-13:45	Scale Up Direct Acres with Integrated Weed Management in Direct Seeded Rice. Karanpreet Singh . Bayer CropScience Ltd, India	
13:45-14:00	Bangladesh Advanced Integrated Weed Management Hub to Reduce Weed Impacts on Food Security with Climate Change. Md (Asad) Asaduzzaman . School of Agricultural, Environmental and Veterinary Sciences, Charles Sturt University, Australia	
14:00-14:15	Allelopathic Activity of <i>Euphorbia hirta</i> Against <i>Avena fatua</i> and <i>Rumex dentatus</i> and Identification of Potential Allelochemicals. Muhammad Akbar . Department of Botany, University of Gujrat, Pakistan	
14:15-14:30	Boosting Pulses Yields through Proven Weed Management Techniques for Indian Farms. Narendra Kumar . ICAR-Indian Institute of Pulses Research, India	
14:30-14:45	Four Years Weed Dynamics in Different Crop Establishment and Weed Management Methods. Nikhil Kumar Singh . Department of Agronomy, Institute of Agricultural Sciences, Banaras Hindu University, India	
14:45 - 15:00	Crop Productivity and Weed Dynamics of Sugarcane under Various Mulches and Reduced Herbicide Dose. Muhammad Zia Ul Haq . Department of Agronomy, University of Agriculture, Faisalabad, Pakistan, Pakistan	
15:00 - 15:15 (Student)	The Impact of <i>Ricinus communis</i> Plant and Patch-level Characteristics on <i>Thaumatotibia leucotreta</i> Infestation Across Northern Israel. Netta Salomon . University of Haifa, Israel, Israel	
15:15-15:30 (Student)	Modelling the Effect of Single and Multiple Weed Interference on Maize Growth and Yield. Nur Rahmattullah . College of Agriculture and Life Sciences, Seoul National University, Korea	

15:30-15:45 (Student)	Diagnosis of Crop Injury by Herbicides Using Plant Image Analysis. Zhaochi Zhai . College of Agriculture and Life Sciences, Seoul National University, Korea
15:45-16:00	Coffee Break
16:00-18:00	HRAC Round Table on IWM
Location:	L7 730A Hall
Chair:	Bianca Assis Barbosa Martins & Roland Beffa
10:00-12:00	IAWCS2025 Progress in Student Orals Student Session I
Location:	L7 730B Hall
Chair:	Fernanda Medeiros; Co-Chair: Udai Pratap Singh
10:00-10:15	Synergistic Effects of Florpyrauxifen-Benzyl Tank-Mixed with Other Auxin Herbicides on Efficacy against Invasive Exotic Weeds. Ji-Eun Lee . Department of Agriculture, Forestry & Bioresources. College of Agriculture & Life Science. Seoul National University, Korea
10:15-10:30	Optimizing Post-Emergence Weed Management in Soybean (<i>Glycine max</i> L.): Bio-Efficacy and Economic Assessment of Haloxypop-R-Methyl. Alok Sinha . Indian Agricultural Research Institute, New Delhi, India
10:30-10:45	Harnessing Pectin-Based Carrier for Smart Delivery of Pretilachlor in Rice Cultivation through Microencapsulation. S. Vignesh . Department of Agronomy, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India, India
10:45-11:00	Integration of Nontarget Screening and QSAR Modeling to Identify Novel Butachlor Transformation Products. Feng Chen . Institute of Plant Protection, CAAS, China
11:00-11:15	Cloquintocet-Mexyl Enhances Glutathione S-Transferase–Mediated Herbicide Metabolism in Winter Wheat. William Kramer . Colorado State University, United States
11:15-11:30	Translocation Characteristics of Florpyrauxifen-Benzyl Revealed by Leaf Excision Method. Juho Lee . Seoul National University, Korea
11:30-11:45	Sustainable Weed Management through Cereal–Legume Forage Mixtures in Conservation Agriculture Systems of Morocco. El Hoicne Hirich . Regional Center for Agronomic Research of Settlat, INRA, Morocco

11:45-12:00 Efficacy of Flumioxazin Effervescent Tablet on Controlling Cabomba Caroliniana – A Field Study. **Junfeng Xu**. The University of Queensland, Australia

12:00-13:30 **Lunch Break + Poster Session**

13:30-15:30 IAWCS2025 Progress in Student Orals **Student Session III**

Location: **L7 730B Hall**

Chair: **Maurizio Vurro; Co-Chair: Zhaofeng Huang**

13:30-13:45 An Epidemiological Approach to Identify the Variability and Spatial Distribution of ALS-Inhibitor Resistance *Echinochloa crus-galli* in Southern Brazil. **Eduardo Rudell**. Colorado State University, Brazil

13:45-14:00 Geographic Distribution of Sulfonylurea Herbicide Resistant Populations and Population Genetic Structure of *Sagittaria trifolia* in Japan. **Shun Miyay**. Kyoto University, Japan

14:00-14:15 Genetic Introgression Promotes both Ecological Adaptation and Management Resilience in *Digitaria* Weed. **Yujie Huang**. Zhejiang University, China

14:15-14:30 Comparative Genomic Insights into the Origins and Adaptation of Asian and African Weedy Rice. **Babatunde O. Kehinde**. Institute of Crop Science & Institute of Bioinformatics, Zhejiang University, China

14:30-14:45 Phenotypic and Molecular Insights into Seed Shattering in Brazilian Weedy Rice. **Guilherme Turra**. UFRGS, Brazil

14:45 - 15:00 Evaluation of Phytotoxic Potential in Asteraceae (*Cosmos* spp.) Plant Extracts and Chromatographic Analysis for Biological Weed Control in the Mekong Delta, Vietnam. **Nguyen Thi Thuy Trang**. College of Agriculture, Can Tho University, Vietnam

15:00 - 15:15 Identification of the Pathogen Causing Tea Leaf Spot and Evaluation of Its Herbicidal Activity. **Ke Wan**. Nanjing Agricultural University, China

15:15-15:30 Optimization of Air Temperature and Humidity for Herbicidal Activity of Mycoherbicide *Sclerotium rolfsii*. **Xiaoxia Shen**. Seoul National University, Korea

15:30-16:00 **Coffee Break**

16:00-18:00 IAWCS2025 Progress in Student Orals **Student Session V**

Location: **L7 730B Hall**

Chair: **Camila Pinho; Co-Chair: Khan Bahadar Marwat**

Tue

16:00-16:15	Synthesis of Urchin-Like PRP@UH-COFs@PDA Nanohybrid as an Ultraviolet-Resistant and Foliar-Adhesive Herbicide Nanoformulation for Enhanced Herbicidal Efficacy. Dongdong Li . Hunan Academy of Agricultural Sciences, China
16:15-16:30	Instance Segmentation for Goosegrass (<i>Eleusine indica</i>) Detection: Density Limitations and Synthetic Data Gains. Julio B. Peres . University of Florida, United States
16:30-16:45	Deep Learning-Driven Weed Detection in Tomato Using UAV Imagery for Precision Herbicide Application. Charles Wesley . PhD Research Scholar, India
16:45-17:00	A Comprehensive Dataset from Southwest China for Deep Learning-Based Detection and Classification of Weeds. Weiyue Chen . Southwest University, College of Engineering and Technology, Chongqing, China, China
17:00-17:15	Transforming Conventional Method into UAV-Based Herbicide Application for Efficient Weed Control and Optimized Resource Use in Direct-Seeded Rice. Arockiya Infant Paul . IRRI South Asia Regional Centre, India
17:15 - 17:30	ISOS: A Novel Method for Evaluating the Precision of Targeted Agriculture Spray Applications. Steffen Telgmann . Department of Plant and Soil Sciences, Mississippi State University, United States
17:30 - 17:45	<i>MADS57</i> Gene Expression Confers to the Strong Tillering Ability of Weedy Rice. Jing Chen . Nanjing Agricultural University, China
17:45-18:00	Final Discussion

10:00-12:00	IAWCS2025 Progress in Student Orals	Student Session II
Location:	L7 736 Hall	

Chair: **Pankaj Trivedi; Co-Chair: Guoqi Chen**

10:00-10:15	Impact of Glufosinate-Ammonium and Metsulfuron-Methyl on Oil Palm Pantation Soil Bacterial Diversity and Function. Nur Hailini Zainol Hilmi . Institute of Biological Sciences, Faculty of Science, University of Malaya, Malaysia
10:15-10:30	Effects of Rust Infection on the Structure and Function of Endophytic Microbial Community in <i>Oxalis</i> spp. Bulbs. Qinglin Zhang . Yunnan Agriculture University, college of Plant Protection, China
10:30-10:45	Imidazolinone Herbicide Residues Modulate the Rhizosphere Microbiome Differently in Tolerant and Susceptible Wheat Genotypes. Bernard B. Dzoma . The University of Adelaide, School of Agriculture, Food and Wine, Australia
10:45-11:00	Differential Tolerance of <i>Chenopodium album</i> L. to Glyphosate. Kaidie Wu . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

Tue

11:00-11:15	Comparative Life Cycle Analysis of Temperature Adaptability in <i>Echinochloa</i> species. Yeong Shin . Seoul National University Department of Agriculture, Forestry and Bioresources College of Agriculture and Life Sciences Crop, Korea
11:15-11:30	Diversity Mechanism in Flooding Adaptation of <i>Echinochloa</i> spp.. Bomi Seo . Seoul National University, College of Ariculture and Life Science, Korea
11:30-11:45	Integrative Taxonomy on <i>Echinochloa</i> (Poaceae) in Mainland China. Jiajia Wei . Nanjing Agricultural University, China
11:45-12:00	YOLO-Driven Dodder (<i>Cuscuta</i> spp.) Identification and Variable-Rate Spraying: Exploration of Intelligent Weeding in White Clover (<i>Trifolium repens</i>) lawns. Binkai Li . Northeast Agricultural University, China

12:00-13:30	Lunch Break + Poster Session
13:30-15:30	IAWCS2025 Progress in Student Orals Student Session IV
Location:	L7 736 Hall

Chair: **Christian Willenborg**; **Co-Chair:** **Shouhui Wei**

13:30-13:45	Effects of Barnyardgrass (<i>Echinochloa crus-galli</i>) on Rice Growth and Yield Traits and Determination of Its Economic Control Threshold. Jufeng Fan . Institute of Plant Protection, Hunan Academy of Agricultural Sciences, China
13:45-14:00	Uncovering Patterns: Phenotypic Diversity of Selected Philippine Weedy Rice Populations. Johannes Mendoza . International Rice Research Institute, Philippines
14:00-14:15	Understanding Soybean-Weed Competition Mechanisms Based on Light Signaling. Jiae Yu . Seoul National University, Korea
14:15-14:30	Modeling the Impact of Weed Interferences on Soybean Yield. Won Cheol Lee . Seoul National University, Korea
14:30-14:45	Seed-Germination Ecology of Eclipta (<i>Eclipta prostrata</i> L.) in Dry Direct-Seeded Rice Fields from China. Xingwei Lai . Jiangsu Academy of Agricultural Science, China
14:45-15:00	Germination Characteristics and Dormancy Release of the Invasive Plant <i>Parthenium hysterophorus</i> . Yixi Li . Yunnan Agriculture University, China
15:00-15:15	Phenotypic Variation and Invasion Dynamics of <i>Parthenium hysterophorus</i> in Israel. Sahar Malka . The Department of Evolutionary and Environmental Biology, Haifa University, Israel
15:15-15:30	Comparison of Environmental Niche Suitability and Ecological Traits between Alien <i>Lolium</i> Species in Japan. Kentaro Uehira . Kyoto University, Graduate School of Agriculture, Japan

Tue

15:30-16:00	Coffee Break
16:00-18:00	IAWCS2025 Progress in Student Orals Student Session VI
Location:	L7 736 Hall

Chair: Marta Monjardino; **Co-Chair:** Weijun Zhou

- 16:00 - 16:15** Parasitic Plant *Orobancha cumana* Effector OcPA1 Hijacks Host Immune System by Suppressing Interacting Sunflower Gene *HaSAP*. **Juanjuan Li**. Zhejiang University, China
- 16:15 - 16:30** Identification and Structural Characterization of HaLBD10 in Response to *Orobancha cumana* Parasitism. **Yingying Zhou**. Zhejiang University, China
- 16:30 - 16:45** Survey of Weed Seed Contaminants in Imported Seeds for Cultivation in Japan. **Kadomoto Yuka**, Kyoto University, Japan
- 16:45 - 17:00** The Influence of Different Geo-Cytotypic *Solidago canadensis* L. on the Physical and Chemical Properties of Soil under Water Stress. **Huan Zhang**, Nanjing Agricultural University, China
- 17:00 - 17:15** Determination of Growth Stage and Node Position for Mechanical Control by Stem Cutting of Giant Ragweed (*Ambrosia trifida*). **Yeong-Hyeon Lee**. Seoul National University, Korea
- 17:15 - 17:30** Effects of Climate Change on the Production Number and Control Methods of the 9 Most Common Weeds in Türkiye: The Example of the Mediterranean Region. **Esra Karaca**. Ankara University, Turkey
- 17:30 - 17:45** Transcriptomic Insights into Seed Germination of *Orobancha cernua*: GR24 Sensitivity and Host Recognition Mechanisms. **Nana Zhao**. Nanjing Agricultural University, China
- 17:45 - 18:00** Final Discussion

10:00-12:00	Chemical Weed Management	CWM Session I
Location:	L7 733 Hall	

Chair: C R Chinnamuthu; **Co-Chair:** Chuanzhi Wu

- 10:00 - 10:15** Model-Based Rescue: Phytotoxicity Threshold and Control Strategy of Fluridone Residue on Herbicide-Sensitive Rotation Maize. **Chi Wu**. Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
- 10:15 - 10:30** Evaluation of Pre-Mix Formulation of Saflufenacil 70 + Metribuzin 700 WDG as a Post-Emergence Herbicide for Broad Spectrum Control of Weeds in Sugarcane (*Saccharum officinarum* L.). **Sreedhar Chemuturi**. Tagros Chemicals India Pvt. Ltd., India

Tue

10:30 - 10:45	Managing Weeds and Enhancing Barley (<i>Hordeum vulgare</i> L.) Yield with Pre-Mix Herbicides in a Guava-Based System. Manoj Kumar Singh . Banaras Hindu University, Varanasi, India	
10:45 - 11:00	Spray Drift of UAV Application and Anti-Drift Adjuvant Development. Huizhu Yuan . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China	
11:00 - 11:15	Biological Activity of Ip triazopyrid: A Novel Azole Carboxamide-Based Inhibitor of 4-Hydroxyphenylpyruvate Dioxygenase. Hadian Permana . Nissan Chemical Corporation, Japan	
11:15 - 11:30	Rinskor™ Active Herbicidal Enabler for Weed Control in Rice in China. Chunhe Qu . Corteva (China) Investment Co., Ltd., China	
11:30 - 11:45	Infestation of Jointed Goatgrass (<i>Aegilops cylindrica</i>) in Winter Wheat Field in Beijing Region and Its Sensitivity to Herbicides. Jinwei Zhang . Institute of Plant Protection, Beijing Academy of Agriculture and Forestry Sciences, China	
11:45 - 12:00	A Water-Surface Spreading Adjuvant Designed for Drone Spraying for Weed Control in Paddy Fields. Daibin Yang . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China	
12:00-13:30	Lunch Break + Poster Session	
13:30-15:30	Chemical Weed Management	CWM Session II
Location:	L7 733 Hall	

Chair: **Caio Brunharo**; **Co-Chair:** **Chunhe Qu**

13:30 - 13:45	Innovative Encapsulation Method for Smart Delivery of Pre-Emergence Herbicides to Enhance Weed Control in Rainfed Peanut Cultivation. Chinnamuthu C R . Tamil Nadu Agricultural University, India	
13:45 - 14:00	Dimesulfazet: A Novel Herbicide for Rice - Biological Activity. Tatsuki Minami . Nissan Chemical Corporation, Japan	
14:00 - 14:15	Tank-Mix Interaction of Clodinafop-Propargyl with Broadleaf Herbicides on Various Weed Species in Wheat. Hamidreza Sasanfar . Weed Research Department, Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization (AREEO), Iran	
14:15 - 14:30	Effects of Different Preceding Crops on Soil Nutrients and Foxtail Millet Productivity and Quality. Xi'e Song . Shanxi Agricultural University, China	
14:30 - 14:45	Two Decades of Weed Resistance Management in Roundup Ready Corn Biotechnology Event NK603 in the Philippines. John Fajardo . Bayer Crop Science Inc., Philippines	

Tue

14:45 - 15:00	A Comprehensive Strategy for Improving the Herbicidal Activity of Mesosulfuron-Methyl Against <i>Aegilops tauschii</i> : Formulation, Particle Size and Rainfastness. Haiyan Yu . Institute of Plant Protection, Chinese
15:00 - 15:15	Assessment of Herbicide Effectiveness and Rainfastness of a Combined MSMA–Diuron–Glufosinate–Ammonium Premix Formulation and Sodium Chlorate Under Multiple Rainfall Events. Meor Badli Shah Ahmad Rafie . SD Guthrie Research Sdn Bhd, Malaysia
15:15 - 15:30	Final discussion

15:30-16:00 Coffee Break

16:00-18:00 Chemical Weed Management CWM Session III

Location: L7 733 Hall

Chair: C R Chinnamuthu; Co-Chair: Hongchun Wang

16:00-16:15	Sensitivity Assessment of Dry Season Rice Varieties and Effectiveness of Weed Control by Selected Herbicides. Md Khairul Alam Bhuiyan . Principal Scientific Officer, Bangladesh
16:15-16:30	Evaluation of Pre-Mix Formulations of Saflufenacil 35 + Pendimethalin 400 EC and Saflufenacil 75 + S-Metolachlor 700 EC as a Pre-Emergence Herbicide for Broad Spectrum Control of Weeds in Soybean (<i>Glycine max</i> L.). Sreedhar Chemuturi . Tagros Chemicals India Pvt. Ltd., India
16:30-16:45	Adengo®: A Promising Solution for Management of Hard to Control Weeds in Corn. Karanpreet Singh . Bayer CropScience Ltd., India
16:45-17:00	Inhibitory Effect of Different Chemicals and Their Doses on Seed Germination and Seedling Growth of <i>Asphodelus tenuifolius</i> Cav. Muhammad Khan . Department of Weed Science and Botany, The University of Agriculture Peshawar-25130, Pakistan
17:00-17:15	Dodhylex™ Active: Development of a New Mode-of-Action Herbicide for Effective Management of Herbicide-Resistant Grass Weeds in Asia Pacific. Yafei Pan . FMC Ag (Thailand) Ltd., Thailand
17:15-17:30	Towards Data-Driven Weed Control: Remotely Sensed Yield Loss Thresholds for Sustainable Herbicide Use. Dilshan Benaragama . University of Manitoba, Canada
17:30-17:45	Precision Weed Detection and Smart Weed Management Using Unmanned Aerial Vehicle in Direct Seeded Rice. Murali Arthanari Palanisamy . Tamil Nadu Agricultural University, India
17:45-18:00	Study on Glyphosate Application Behavior Among Genetically Modified Maize Farmers. Xilin Yan . Agricultural Information Institute, Chinese Academy of Agricultural Sciences, China

Tue

PROGRAMME

22nd October 2025 Wednesday

08:30-22:30 **Filed Trip& Local Tour**

Location: **L5 Nanjing Hall**

Director: **Zheng Zhang; Junqiang Zhu**

08:30-12:00

Depature from Nanjing International Youth Conference Hotel in the morning, arriving Tangquan Farmand and visiting the demonsttrtion of precise weed green control technology. Guests who selected Tour1,Tour 2 , Tour 3 and Boating Tour take the different shuttle buses in the following routes for sightseeing and the guests prefer field trip only will go back hotels by shuttle buses.

18:00 – 19:30 **Dinner**

PROGRAMME

23rd October 2025 Thursday

08:30-09:30	Keynote Presentation
Location:	L5 Nanjing Hall
Chair:	Caio Brunharo
08:30-9:30	Creating Novel Herbicide-Tolerant Germplasm by Targeted Genome Editing. Huanbin Zhou . Institution of Plant Protection, Chinese Academy of Agricultural Sciences, China
9:30 – 10:00	Coffee Break
10:00-12:00	Weed Omics, Adaptation and Evolution
Location:	L7 730A Hall
Chair:	Franck Dayan; Co-Chair: Dana MacGregor
10:00-10:15	Innovations in Herbicide Discovery. Franck Dayan . Colorado State University, United States
10:15-10:30	The <i>Alopecurus aequalis</i> Genome is a Resource for Understanding Resistance and Reediness. Dana MacGregor . Rothamsted Research, UK
10:30-10:45	The Development of Herbicide Tolerant Crops and Their Commercialization in China. Xiangju Li . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China
10:45-11:00	Glyphosate resistance by <i>EPSPS</i> Copy Number Variation in <i>Eleusine indica</i> : Metabolic Basis of Fitness Advantage. Jingchao Chen . Institute of
11:00-11:15	Chloroplast Genome of <i>Cuscuta Pentagona</i> and Its Response to Bentazone. Jin-Won Kim . National Institute of Agricultural Science, Korea
11:15-11:30	Understanding the Adaptive Function of Weed Traits in the Process of Precise Domestication of Weedy Rice into Weed-Competitive Cultivated Rice. Weimin Dai . Nanjing Agricultural University, China
11:30-12:00	Final Discussion
12:00-13:30	Lunch Break + Poster Session

Thu

13:30-18:00	Genomics Workshop I; Genomics Workshop II
Location:	L7 730A Hall
Chair:	Caio Brunharo; Tod Gaines
10:00-12:00	Advanced Technologies for Weed Detection & Management
Location:	L7 730B Hall
Chair:	Michael Walsh.; Co-Chair: Guy Coleman
10:00-10:15	Recognizing Weeds in Soybean Crop Using a Hybrid Method Based on YOLOv9 and Fuzzy Inference System. Catarine Markus. Federal University of Rio Grande do Sul, Brazil
10:15-10:30	Advances in the Use of Remote Sensing and Artificial Intelligence in Weed Research: Progress in Western Canada. Dilshan Benaragama. University of Manitoba, Canada
10:30-10:45	Performance Analysis of a Deep Learning Approach for Weed Recognition in Soybean and Corn. Estefani Sulzbach. Federal University of Rio Grande do Sul, Brazil
10:45-11:00	Large-Scale, Global Image Data Collection with the Low-Cost, Open-Source Open Weed Locator (OWL). Guy Coleman. University of Copenhagen, Denmark
11:00-11:15	The Comparison of Unmanned Aerial Vehicles (UAVs) and Conventional Spray Methods for Controlling Weeds in Rice. Hüsrev Mennan. Ondokuz Mayıs University, Turkey
11:15-11:30	Innovative Approach to Weed Management: AI-Powered Robotics for Regenerative and Sustainable Farming. Ofri Gerson & Baruch Rubin. Hebrew University of Jerusalem, Israel
11:30-11:45	Advanced Rice Crop Monitoring and Weed Detection Through UAV-Mounted Multispectral Sensors. HMS Herath. Field Crop Research and Development Institute, Department of Agriculture, Mahalluppallama, Sri Lanka
11:45-12:00	Enhancing Weed Management with Computer Vision and Deep Learning: From Detection Strategies to Precision Herbicide Application Across Cropping Systems. Jialin Yu. Peking University-IAAS, China
Lunch Break + Poster Session	
12:00-13:30	

13:30-15:30	Biological Weed Control/ Bioherbicide Workshop
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Location:	L7 730B Hall
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Chair: Maurizio Vurro; **Co-Chair:** Graeme Bourdôt

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| 13:30 - 13:45 | Biological Control of Prickly Acacia (<i>Vachellia nilotica</i> ssp. <i>Indica</i>) Management in Australia: An Update on New Approved Biological Control Agent Gall Thrips (<i>Acaciothrips ebneri</i>). Boyang Shi . Biosecurity Queensland, Department of Agriculture and Fisheries, Australia |
| 13:45 - 14:00 | The Enigmatic Triad: Climate Change, Invasive Plants and Their Biocontrol Agents. Puja Ray . Presidency University, Kolkata, India |
| 14:00 - 14:15 | Epidermal Mechanisms Underlying the Pathogenic Variation of <i>Bipolaris yamadae</i> to Different Barnyardgrass Species. Min Tan . Nanjing Agricultural University, China |
| 14:15 - 14:30 | Broad Host Range Pathogens as Bioherbicides: Managing Non-Target Plant Disease Risk. Graeme Bourdôt . New Zealand Bioeconomy Science Institute, New Zealand |
| 14:30 - 14:45 | Advancing Microbial Bioherbicides: Overcoming Challenges and Enabling Innovation. Laura Villamizar . New Zealand Bioeconomy Science Institute |
| 14:45 - 15:00 | Introducing a Sclerotial Mycoherbicide of <i>Sclerotium rolfsii</i> BWC98-105 in Korea. Dalsoo Kim . Moghu Research Center Ltd. |
| 15:00 - 15:15 | Field Study on the Spreading Dynamics and Application Strategies of <i>Sclerotium rolfsii</i> for Controlling <i>Monochoria vaginalis</i> . So-Won Koo . Moghu Research Center Ltd., Korea |
| 15:15 - 15:30 | Final Discussion |

15:30 – 16:00	Coffee Break
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16:00-18:00	Biological Weed Control/ Bioherbicide Workshop BC/BWP Session II
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Location:	L7 730B Hall
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Chair: Maurizio Vurro; **Co-Chair:** Liang Cheng

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| 16:00 - 16:15 | Nanoparticle Delivery of Antisense miR162 Inhibits Invasive Habitat Adaption of <i>Alternanthera philoxeroides</i> . Binglian Zheng . Fudan University, China |
| 16:15 - 16:30 | Research Progress on Mycoherbicides from Fungi Genus <i>Colletotrichum</i> . Qiongnan Gu . Institution of Plant Protection and Soil Fertilization, Hubei Academy of Agricultural Sciences, China |

Thu

16:30 - 16:45	Biological Characteristics of <i>Alternaria alternata</i> Strains JM and the Weeding Potential for Flixweed (<i>Descurainia sophia</i>). Lingxu Li . Qingdao Agricultural University, China
16:45 - 17:00	Discovery and Characterization of <i>Teratoramularia rumicicola</i> Strain TR4 as a Bioherbicide Candidate for Selective control of <i>Rumex</i> Weeds. Masataka Izumi . Kyoto University, Japan
17:00 - 17:15	Isolation and Biosynthesis of Herbicidal Secondary Metabolite Epoxydon from <i>Epicoccum sorghinum</i> . Jingxu Zhang . Anhui Agricultural University, China
17:15 - 17:30	Significant Inhibition of <i>Penicillium oxalicum</i> and Its Metabolites on <i>Eleusine indica</i> Seed Germination. Hanxia Yu . Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences, China
17:30 - 17:45	Herbicidal Potential of Secondary Metabolites from Insect Symbiotic Microorganisms. Yinglao Zhang . Anhui Agricultural University, China
17:45 - 18:00	Final Discussion

10:00-12:00	Herbicide Resistance and Management	HRM Session I
Location:	L7 736 Hall	

Chair: **Bernal E. Valverde** ; **Co-chair: Mingshan Ji**

10:00-10:15	How Genomics Contributes to Improve Herbicide Resistance Evolution Modelling Prediction in the Fields. Roland Beffa . Independent Senior Scientist Consultant, Germany
10:15-10:30	Molecular Mechanism of Bensulfuron-Methyl Resistance in <i>Sagittaria trifolia</i> . Mingshan Ji . Shenyang Agricultural University, China
10:30-10:45	Novel Nanocellulose-Based Adjuvant (BioGrip™) Effect on Dicamba Volatilization and Droplet Characteristics. Juan Camilo Velasquez Rodriguez . University of Arkansas, United States
10:45-11:00	Characterization of the Level of Resistance to ACCase- and ALS-Inhibiting Herbicides in Barnyardgrass (<i>Echinochloa glabrescens</i> Munro ex Hook. F.) Populations from Quezon, Philippines. Analiza Henedina Ramirez . Institute of Weed Science, Entomology and Plant Pathology, University of the Philippines Los Banos, Philippines
11:00-11:15	Investigation of Resistance Mechanism to Fomesafen in <i>Amaranthus retroflexus</i> L. Zhaofeng Huang . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China

Thu

11:15-11:30	Research on the Resistance of <i>Echinochloa crus-galli</i> to Cyhalofop-Butyl in Heilongjiang Province. Guangyu Li . Institute of Plant Protection, Heilongjiang Academy of Agricultural Sciences, China	
11:30-11:45	Fentrazamide Development for Resistance Weed Management in Rice. Wei Zheng . Bayer CropScience (China) Ltd., China	
11:45 - 12:00	Final Discussion	
12:00-13:30	Lunch Break + Poster Session	
13:30-15:30	Herbicide Resistance and Management	HRM Session II
Location:	L7 736 Hall	
Chair:	Roland Beffa; Co-chair: Jingchao Chen	
13:30 - 13:45	Widespread Multiple Herbicide Resistance Among <i>Echinochloa colona</i> Populations in Rice in Costa Rica. Bernal E. Valverde . Investigación y Desarrollo en Agricultura Tropical, Alajuela, Costa Rica, Costa Rica	
13:45 - 14:00	Target-Site and Non-Target-Site Resistance Mechanism of <i>Leptochloa chinensis</i> Populations to Cyhalofop-Butyl. Xiaoyue Yu . China National Rice Research Institute, China	
14:00 - 14:15	Difference of Resistance and Mechanism of Various Rice Varieties to Metazosulfuron. Suxin Zhang . Heilongjiang Academy of Agricultural Sciences, Institute of Plant Protection, China	
14:15 - 14:30	Exploring the Mechanism of Barnyardgrass Resistance to Glyphosate. Alejandra Díaz Riaño . Federal University of Pelotas, Brazil, Colombia	
14:30 - 14:45	Spread of <i>EPSPS</i> Copy Number Variation in Glyphosate-Resistant <i>Lolium multiflorum</i> Lam. Across the Continental U.S. Adrian Veron . The Pennsylvania State University, College of Agriculture, Plant Science Department, United States	
14:45 - 15:00	Mechanisms of Metabolic Resistance to ALS- Inhibiting Herbicide in <i>Digitaria sanguinalis</i> . Yidi Guan . Shenyang agricultural University, China	
15:00 - 15:15	Resistance Mechanism of <i>Schoenoplectiella juncooides</i> (Roxb.) to Bensulfuron-Methyl. Liru Liu . Shenyang Agricultural University, China	
15:15 - 15:30	The role of Allelic Diversity in CYP81A10 in the Metabolic Resistance Evolution of <i>Lolium rigidum</i> . Kuiyuan Chen . Kyoto University, Japan	
15:30 –16:00	Coffee Break	

16:00-18:00	Progress in Weed Technology in China	PWT China Session I
Location:	L7 736 Hall	
Chair:	Huizhu Yuan; Co-Chair: Linjian Jiang	
16:00 - 16:15	One-Step Generation of Prime-Edited Transgene-Free Herbicide-Resistant Rice. Linjian Jiang . China Agricultural University, China	
16:15 - 16:30	Post-Emergence Water-Dispersal Application Provides Equal Herbicidal Activity Against <i>Echinochloa crus-galli</i> and Rice Safety as Foliar Spraying of Penoxsulam. Jinqiu Sun . Chinese Academy of Agricultural Sciences, China	
16:30 - 16:45	Metabolic Resistance to Cyhalofop-Butyl Mediated by the <i>LcCYP81A107</i> Gene in <i>Leptochloa chinensis</i> from China. Minghao Jiang . Anhui Agricultural University, China	
16:45 - 17:00	A New Detection Method for the Long Residual Herbicide Fomesafen Based on the Anti-Immune Complex Peptide. Jingqian Huo . Hebei Agricultural University, China	
17:00 - 17:15	Unraveling the Molecular Basis of <i>Descurainia sophia</i> 's Resistance to Tribenuron-Methyl and Florasulam Through Integrated Omics Approaches. Xiaomin Liu . Hebei Academy of Agricultural Sciences, Plant Science Department, China	
17:15 - 17:30	Elucidating the Mechanism of P450-Mediated Metabolic Resistance to Tribenuron-Methyl in <i>Descurainia sophia</i> via Key Amino Acid Mutations in CYP96A146. Jing Shen . Institute of Plant Protection and Soil Fertilizer, Hubei Academy of Agricultural Sciences, China	
17:30 - 17:45	One-Pot Assay for Rapid Detection of Herbicide Resistance in <i>Digitaria ciliaris</i> var. <i>Chrysoblephara</i> by Combining LAMP and CRISPR/Cas. Zaobing Zhu . Jiangsu Academy of Agricultural Sciences, China	
17:45 - 18:00	Diverse Resistance Mechanisms of <i>Digitaria ciliaris</i> var. <i>Chrysoblephara</i> to Metamifop in Direct-Seeded Rice Fields. Jingjing Cao . Jiangsu Academy of Agricultural Sciences, China	

PROGRAMME

24th October 2025 Friday

08:30-09:30	Keynote Presentation	
Location:	L5 Nanjing Hall	
Chair:	Maor Matzrafi	
08:30-9:30	The Genomics Era for Weed Science: Opportunities and Challenges Ahead, Todd Gains . Colorado State University, US	
9:30 – 10:00	Coffee Break	
10:00-12:00	Herbicide Resistance and Management	HRM Session III
Location:	L7 702 Hall	
Chair:	Mingqi Zheng; Co-chair: Zhike Feng	
10:00 - 10:15	Target-Site Resistance Mechanisms to Bensulfuron-Methyl in <i>Monochoria korsakowii</i> . Jiaxin Wang . Shenyang Agricultural University, China.	
10:15 - 10:30	Resistance of Vietnamese <i>Echinochloa</i> Species to Cyhalofop-Butyl. Vinh Sang Tran . College of Agriculture and Life Sciences, Seoul National University, Korea.	
10:30 - 10:45	Glutathione S-Transferase Gene EcDHAR1 Confers Metabolic Resistance to Penoxsulam in <i>Echinochloa crus-galli</i> (L.) P. Beauv. Penglei Sun . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
10:45 - 11:00	Insights into Evolution of Imidazolinone Resistance in Weedy Rice: Gene Flow, Resistance Mutation, and Expression Shifts. Rabiatuladawiyah Ruzmi . Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia.	
11:00 - 11:15 (Student)	Target Site Resistance of <i>Lolium multiflorum</i> to Acetolactate Synthase Inhibitor in Henan Province. Shimul Chandra Sarker . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
11:15 - 11:30 (Student)	Overproduction of EPSP's Enzyme as a Resistance Mechanism in Multiple-Herbicide-Resistant <i>Eleusine indica</i> . Camila Ferreira de Pinho . Federal Rural University of Rio de Janeiro, Rio de Janeiro, Brazil.	

Fri

11:30 - 11:45 (Student)	Monitoring of Resistance to Mesosulfuron-Methyl and Resistance Mechanisms in <i>Aegilops tauschii</i> Cross. Zhihan Liu . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
11:45 - 12:00	Final Discussion	
12:00-13:30	Lunch Break + Poster Session	
13:30-15:30	Herbicide Resistance and Management	HRM Session IV
Location:	L7 702 Hall	
Chair:	Lifeng Wang; Co-chair: Chun Zhang	
13:30 - 13:45	A Novel Resistance Mutation Site (Arg199) in Acetolactate Synthase (ALS) of Tribenuron-Methyl-Resistant <i>Descurainia sophia</i> L. Mingqi Zheng . China Agricultural University, China	
13:45 - 14:00	An ABCG-Type Transporter from Asia Minor Bluegrass (<i>Polypogon fugax</i>) Confers Resistance to Fenoxaprop-P-Ethyl. Ning Zhao . Anhui Agricultural University, China.	
14:00 - 14:15	Herbicide Use Patterns and Perceptions of Herbicide Resistance among Rice Farmers in Quezon, Philippines. Analiza Henedina Ramirez . Institute of Weed Science, Entomology and Plant Pathology, University of the Philippines Los Baños, Philippines.	
14:15 - 14:30	Syngenta's Contribution to Herbicide Resistance Research and Management. Shiv Shankhar Kaundun . Jealott's Hill International Research Centre, United Kingdom.	
14:30 - 14:45	Multiple Herbicide Resistance in Barnyard Grass (<i>Echinochloa crus-galli</i> (L.) P. Beauv.) from Rice Fields of Guangdong Province, China. Wenlei Guo . Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences, Guangdong Provincial Key Laboratory of High Technology for Plant Protection, China.	
14:45 - 15:00	EcUGT79-Like Mediated Metabolic Resistance to Auxin Herbicide Quinclorac in <i>Echinochloa colona</i> (L.) Link. Hao Wang . Environment and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences, China.	
15:00 - 15:15	Mateno More®: An Effective Strategy for Sustainable Management of Resistant <i>Phalaris minor</i> & Mix of Broad-Leaved Weeds in Wheat Crop. Karanpreet Singh . Agronomic Solutions Manager – Weed Management, IBSL, Bayer CropScience Ltd, India.	
15:15 - 15:30	Final Discussion	
15:30 – 16:00	Coffee Break	

10:00 - 12:00	Progress in Weed Technology in China	PWT China Session II
Location:	L7 726A Hall	
Chair:	Hongjuan Huang; Co-Chair: Ruhai Li	
10:00 - 10:15 (Student)	Pyroxsulam Boosts Wheat's Tolerance to Bixlozone Stress Through Enhancing GSTs and ABC Transporters' Detoxification. Xu Dong . Plant Protection Institute, Hebei Academy of Agriculture and Forestry Sciences, China.	
10:15 - 10:30 (Student)	The Mechanisms of <i>Commelina communis</i> Tolerant to Glyphosate: Reduced Absorption via Stomatal Characteristics and Enhanced Metabolic Degradation. Pengfei He . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
10:30 - 10:45 (Student)	Development of a Dual-Mode Loop-Mediated Isothermal Amplification Genotyping System for Rapidly Detecting EPSPS Mutations in Glyphosate-Resistant <i>Eleusine indica</i> . Guanglei Jin . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
10:45 - 11:00 (Student)	Predicting the Potential Distribution of <i>Eriochloa villosa</i> in Northeast China's Spring Maize Fields Using a MaxEnt-R Framework: Implications for Climate Change Early Warning. Wenli Liu . Shenyang Agricultural University, China.	
11:00 - 11:15 (Student)	Resistance Potential of HaLYK1 Gene in Response to <i>Orobancha cumana</i> Infection in <i>Helianthus annuus</i> . Juanjuan Li . Zhejiang University, China.	
11:15 - 11:30 (Student)	Mega-Analysis Reveals Environmental and Adaptive Drivers of <i>Ageratum conyzoides</i> Invasion from Lag to Rapid Expansion. Xin Zhou . Nanjing Agricultural University, China.	
11:30 - 11:45 (Student)	Differential Analysis of Leaf Structure and Uptake Metabolism Between Nicosulfuron-Resistant and Sensitive <i>Eriochloa villosa</i> (Thunb.) Kunth. Ting Jiao . Northeast Agricultural University, China.	
11:45 - 12:00 (Student)	Investigating the Mechanisms of Nicosulfuron Resistance in <i>Amaranthus hybridus</i> L. Xinhui Xue . Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.	
12:00-13:30	Lunch Break + Poster Session	
13:30-15:30	Progress in Weed Technology in China	PWT China Session III
Location:	L7 726A Hall	
Chair:	Weimin Dai; Co-Chair: Wei Tang	

13:30 - 13:45 Mechanism of Penoxsulam's Effect on Chlorophyll Synthesis and the Metabolism of Foxtail Millet. **Shuqi Dong**. College of Agriculture, Shanxi Agricultural University, China.

13:45 - 14:00 The Mutation Asp-2078-Gly in the ACCase Gene Confers Resistance to Cyhalofop-Butyl in Chinese Sprangletop (*Leptochloa chinensis*). **Xiang Qu**. Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China.

14:00 - 14:15 Genomic Insights into the Polyploidization-Driven Herbicide Adaptation Mechanism in *Leptochloa* Weeds. **Ke Chen**. Hunan Academy of Agricultural Sciences, China.

14:15 - 14:30
(Student) Effects of Glyphosate and a Novel Herbicide on Soil Microorganisms and Enzyme Activities with Screening of Their Mixtures. **Chenshun Xie**. Zhejiang Agricultural and Forestry University, China.

14:30 - 14:45
(Student) Biological Characterization of Pendimethalin Resistance in *Chenopodium glaucum*. **Yangyang Shen**. Zhejiang Agricultural and Forestry University, China.

14:45 - 15:00
(Student) Design, Synthesis, and Mechanism of Action of Novel N-Heterocyclic Amide Derivatives as Herbicide Agents. **Xianmin Lan**. Guizhou Academy of Agricultural Sciences, China.

15:00 - 15:15
(Student) The Synthesis and Herbicidal Activity of Acylhydrazine Derivatives. **Yiyue Feng**. Guizhou University, China.

15:15 - 15:30 Final Discussion

15:30 – 16:00 Coffee Break

16:00-17:00 Close Ceremony

Location: L5 Nanjing Hall

Chair: Samunder Singh; Chuanli Zheng

18:00 – 20:00 Dinner

Fri



Organizers



Co-Organizers



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HERBICIDE
RESISTANCE
ACTION
COMMITTEE



October 19-24

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