

| Chair | Topic | Session | Slot | Date | Starting Time | End time | Title | Authors |
|--------------|-----------|----------|----------|---------|---------------|----------|--|--|
| Chair | 3 | 0 | 0 | | | | Application Technology | MTO: Dr. Edinaldo Camargo |
| | 3 | 99 | 1 | 12/5/22 | 15:15 | 16:15 | Spray Drift Study from Mesotrione and Rimsulfuron+Thifensulfuron-methyl to various crops | Milan Brankov, Guilherme Sousa Alves, Bruno Canela Vieira, Milos Zaric, Trenton Houston, and Greg Kruger |
| | 3 | 99 | 2 | 12/7/22 | 9:45 | 10:45 | Different forms of glyphosate application in coffee plants and its final residues in green coffee | Luiz Lonardoní Foloni, Edivaldo Domingues Velini, Caio Antonio Carbonari, João Domingos Rodrigues, and Elizabeth Orika Ono |
| | 3 | 99 | 3 | 12/5/22 | 15:15 | 16:15 | Efficacy of Post-Emergent Herbicides Applied Using Different Backpack Sprayers | Mary Joy M. Abit, and Analiza Henedina M. Ramirez |
| | 3 | 99 | 4 | 12/7/22 | 9:45 | 10:45 | Comparison Between Conventional Knapsack Sprayer with Close Loop Knapsack System (CLKS) in Controlling Weeds in Oil Palm, Corn, and Lowland Paddy | Nanik Sriyani, and Hidayat PujiSiswanto |
| | 3 | 99 | 5 | 12/5/22 | 15:15 | 16:15 | Application of nanoherbicide for sustainable weed management | Ram Kumar Singh, Reshu Bhardwaj, and Ram Narayan Meena |
| | 3 | 99 | 6 | 12/7/22 | 9:45 | 10:45 | Effects of Novel Granule Formulations of Floryprauxifen-benzyl + Penoxsulam + Benzobicyclon on paddy weeds in Japan | Shota Niwayama, Wataru Kataoka, Keisuke Yashima, Norikazu Takayanagi, and Takao Nagano |
| Chair | 5 | 0 | 0 | | | | Climate Aspect of Weed Science | MTO: Dr. Jonathan Storkey |
| | 5 | 99 | 7 | 12/5/22 | 15:15 | 16:15 | Role of climate resilient rice cultivar in managing invasive alien weeds | RM. Kathiresan, S. Vishnudevi, M. Sarathkumar, Sudhanshu Singh, and Uma S. Singh |
| Chair | 6 | 0 | 0 | | | | Economic and Social Aspects of Weed Management | MTO: Dr. Grace Bolfrey-Arku |
| | 6 | 99 | 8 | 12/7/22 | 9:45 | 10:45 | Traditional use of glyphosate to control weeds in Soconusco, Chiapas, Mexico | Dante Alfredo Hernández-Sedas, and Daniela Quezada-Palomeque |
| | 6 | 99 | 9 | 12/5/22 | 15:15 | 16:15 | Cost of weed resistance to herbicide in Brazil | Fernando S. Adegas, Dionísio L. P. Gazziero, Leandro Vargas, and Alexandre Ferreira |
| | 6 | 99 | 10 | 12/7/22 | 9:45 | 10:45 | Effect of 2, 4-D sodium salt 80% WP on weed complex, yield and economics of rabi maize (Zea mays L.) | Pratik Sanodiya |
| | 6 | 99 | 11 | 12/5/22 | 15:15 | 16:15 | Potential yield loss in various crops due to weed interference in North America | Nader Soltani, J. Anita Dille, and Peter H. Sikkema |
| | 6 | 99 | 12 | 12/7/22 | 9:45 | 10:45 | Integrated control of water hyacinth (Eichhornia crassipes) in Thailand | Thunyaluck Thaebanpakul, Thanar Suwattana, Chawakorn Rewtragulpaibul, and Kitsada Khunnakun |
| Chair | 7 | 0 | 0 | | | | Environmental Fate of Herbicides | MTO: Dr. Edinaldo Camargo |
| | 7 | 99 | 13 | 12/5/22 | 15:15 | 16:15 | Weed Response in winter wheat fields on a gradient of Glyphosate use in the recent past | Sabine Andert, Friederike de Mol, Laurie Koning, and Bärbel Gerowitt |
| Chair | 8 | 0 | 0 | | | | Integrated Weed Management | MTO: Dr. Alejandro Garcia |
| | 8 | 99 | 14 | 12/7/22 | 9:45 | 10:45 | Weed control in elephant grass pasture with pre-emergence herbicides | Alexandre M. Brighenti, and Leonardo H. F. Calsavara |
| | 8 | 99 | 15 | 12/5/22 | 15:15 | 16:15 | Carotenoid biosynthesis inhibiting herbicides alone or in tank-mix with atrazine in elephant grass pasture | Alexandre M. Brighenti, and Leonardo H. F. Calsavara |
| | 8 | 99 | 16 | 12/7/22 | 9:45 | 10:45 | Integrated weed management in olive orchards: Weed diversity, crop production and quality | V. Pedraza, J. A. Lezaun, I. Garnica, and J. L. Gonzalez-Andujar |
| | 8 | 99 | 17 | 12/5/22 | 15:15 | 16:15 | Integrated weed management for minimized use of glyphosate and paraquat in sugarcane | Pruchya Ekkathin Yurawan Anantamanee, and Chanya Maneechote |
| | 8 | 99 | 18 | 12/7/22 | 9:45 | 10:45 | Integrated Weed Management for Minimized Use of Glyphosate in Oil Palm | Yurawan Anantamanee, Pruchya Ekkatin, and Chanya Maneechote |
| | 8 | 99 | 19 | 12/5/22 | 15:15 | 16:15 | Efficacy of Floryprauxifen-benzyl (Rinskor™) on Eichhornia crassipes (Mart.) Solms (water hyacinth) in aquatic environment of Karawang, West Java, Indonesia | Dwi Priyo Prabowo, Aditya Bagus Widiawan, Le Duy, Milwan Fatya Cholis, and Denny Kurniadie |
| | 8 | 99 | 20 | 12/7/22 | 9:45 | 10:45 | Influence of different weed control measures on angelica (Angelica archangelica L.) root mass | Jovan Lazarević, Dragana Božić, and Sava Vrbničanin |
| | 8 | 99 | 21 | 12/5/22 | 15:15 | 16:15 | Evaluation of broadleaf weed herbicides on weed control and productivity of wheat (Triticum aestivum L.) | Z. Kassahun, B. Shashitu, and A. Bogale |
| | 8 | 99 | 22 | 12/7/22 | 9:45 | 10:45 | Effect of different herbicide programs on weed flora, productivity, and soil properties in a transplanted rice - rice cropping system | Murali Arthanari Palanisamy, and C. Bharathi |
| | 8 | 99 | 23 | 12/5/22 | 15:15 | 16:15 | Pre and post emergent control of Digitaria sanguinalis and Panicum texanum | Ryan Langemeier, Livia Pereira, Justin McCaghren, and Steve Li |
| | 8 | 99 | 24 | 12/7/22 | 9:45 | 10:45 | Control of Miscanthus by combining glyphosate and mowing | Jae-Hyoung You, Tae-Kyoung Noh, Yeon-Ho Park, and Do-Soon Kim |
| | 8 | 99 | 25 | 12/5/22 | 15:15 | 16:15 | Efficacy of pre- and post-emergence herbicide for controlling Digitaria sacchariflora (Nees) Henrard in pineapple plantations | Sirichai Sathuwijam |
| | 8 | 99 | 26 | 12/7/22 | 9:45 | 10:45 | Influence of 26 late summer- and fall-planted cover crops on weed density and soil moisture dynamics in Southeast Texas | Spencer L. Samuelson, and Muthukumar V. Bagavathiannan |
| | 8 | 99 | 27 | 12/5/22 | 15:15 | 16:15 | Effect of halauxifen-methyl plus pyroxulam herbicide formulation on grass and broadleaf weeds in Eragrostis tef (Zucc.) in Ethiopia | Z. Kassahun, Everlyne Pamba, G. Yordanos, J. Yimenu, and A. Bogale |
| | 8 | 99 | 28 | 12/7/22 | 9:45 | 10:45 | Chemical weed control in maize hybrids under irrigated conditions at Charsadda-Pakistan | Muhammad Haris, and Rahamdad Khan |
| Chair | 9 | 0 | 0 | | | | Invasive and Parasitic Plants Species | MTO: Dr. Lorraine Strathie |
| | 9 | 99 | 29 | 12/5/22 | 9:45 | 10:45 | Interception of weed seeds in imported coriander (Coriandrum sativum L.) seeds | Chanpis Dathamart, Preyapan Pongsapich, Wanpen Srichart, Sopa Meeamnat, Wasana Rungsawang, Wanich Khampanich, and Chanadol Sattratanapat |
| | 9 | 99 | 30 | 12/7/22 | 15:15 | 16:15 | Discrimination and mapping of invasive plants in protected areas of Pakistan using remote sensing | Iram M. Iqbal, Heiko Balzter, Asad Shabbir, and Firdaus-e- Bareen |
| | 9 | 99 | 31 | 12/5/22 | 9:45 | 10:45 | Control of Ailanthus altissima (Mill.) Swingle (Simaroubaceae) in a natural ecosystem | Jordi Izquierdo, Jordi Soler, and Joan Vilamú |
| | 9 | 99 | 32 | 12/7/22 | 15:15 | 16:15 | Strategy to control Cyperus rotundus L. (Cyperaceae) in turfgrass in the low desert of the Southwest United States | Kai Umeda |
| | 9 | 99 | 33 | 12/5/22 | 9:45 | 10:45 | Host range of mistletoes in the middle belt of Nigeria and management strategies utilized by farmers | Rosemary I. Ahom, Samuel Tsenongu, Ibrahim Abdul, and Zitta Chnanybol |
| Chair | 10 | 0 | 0 | | | | Modeling | MTO: Dr. Jose L. Gonzalez-Andujar |
| | 10 | 99 | 34 | 12/7/22 | 15:15 | 16:15 | Long-term competitiveness of different weed species in a wheat-leguminous rotation | Maria J. Aguilera, Fernando Bastida F, and Jose L. Gonzalez-Andujar |

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| | 10 | 99 | 35 | 12/5/22 | 9:45 | 10:45 | Modelling the effect of reduced herbicide doses and nitrogen fertilizer on broad bean (<i>Vicia faba</i> L.)-weed competition | Maryam Sepahvand, Eiham Elahifard, and Abolfazl Derakhshan |
| | 10 | 99 | 36 | 12/7/22 | 15:15 | 16:15 | Modelling the effects of <i>Bidens frondosa</i> competition on soybean yield in the paddy-upland rotation field | Won-Cheol Lee, Ji-Ae Yu, Yeon-Ho Park, Soo-Hyun Lim, Suk-Ha Lee, and Do-Soon Kim |
| | 10 | 99 | 37 | 12/5/22 | 9:45 | 10:45 | Development of a temperature-based seed germination model for silverleaf nightshade (<i>Solanum elaeagnifolium</i>) | Omer Kapiluto, Hanan Eizenberg, and Ran Lati |
| | 10 | 99 | 38 | 12/7/22 | 15:15 | 16:15 | ALS inhibitor-resistant <i>Cyperus difformis</i> seed germination requires fewer growing degree-days and lower soil moisture | Rafael M. Pedroso, Chris van Kessel, Durval Dourado Neto, Bruce A. Linquist, Louis G. Boddy, Kassim Al-Khatib, and Albert J. Fischer |
| Chair | 11 | 0 | 0 | | | | New Technology For Weed Management | MTO: Dr. Muthukumar Bagavathiannan |
| | 11 | 99 | 39 | 12/5/22 | 9:45 | 10:45 | Post-emergent herbicidal activity of nanoatrazine against weeds sensitive and tolerant to atrazine | Bruno T. Sousa, Anderson E. S. Pereira, Leonardo F. Fraceto, Halley C. Oliveira, and Giliardi Dalazen |
| | 11 | 99 | 40 | 12/7/22 | 15:15 | 16:15 | Using unmanned aerial system to determine impact of glufosinate drift on peanut | Pratap Devkota, Navjot Singh, Joseph E. Iboyi |
| | 11 | 99 | 41 | 12/5/22 | 9:45 | 10:45 | Weedy rice control with imazethapyr loaded in alginate/cellulose microcapsules | Vinicios R. Gehrke, Edinaldo R. Camargo, André R. Fajardo, and Andressa B. Nörnberg |
| | 11 | 99 | 42 | 12/7/22 | 15:15 | 16:15 | Field validation of VIPS-weeds decision support system for weed management in Norway | Zahra Bitarafan, Einar Strand, Per Rydahl, and Kirsten Semb Tørresen |
| | 11 | 99 | 43 | 12/5/22 | 9:45 | 10:45 | Developing new herbicides for sustainable weed management in a rice herbicide resistance scenario in Asia | Sudakir Sudakir |
| Chair | 12 | 0 | 0 | | | | Non-Chemical weed control | MTO: Dr. Marleen Riemens |
| | 12 | 99 | 44 | 12/7/22 | 15:15 | 16:15 | Mechanical intra row control affected by species specific uprooting force | Evyatar Asaf, Hanan Eizenberg, and Ran Nisim Lati |
| | 12 | 99 | 45 | 12/5/22 | 9:45 | 10:45 | Aquatic weed removal with a rake to optimize water delivery | Jirawat Phuphanutada, Chawakorn Rewtragulpaibul, and Kitsada Khunnakun |
| | 12 | 99 | 46 | 12/7/22 | 15:15 | 16:15 | Killing weed seeds in chaff by pelletizing chaff for further utilization | Zahra Bitarafan, Christoph Glasner, and Christian Andreasen |
| | 12 | 99 | 47 | 12/5/22 | 9:45 | 10:45 | Soil steaming to kill barnyard grass seeds in contaminated soils | Zahra Bitarafan, Wiktorja Kaczmarek-Derda, Therese With Berge, Lars Olav Brandsæter, Kirsten Semb Tørresen, and Inger Sundheim Floistad |
| Chair | 13 | 0 | 0 | | | | Physiology Of Plants and Herbicide Interaction | MTO: Dr. Maor Matzrafi |
| | 13 | 99 | 48 | 12/7/22 | 15:15 | 16:15 | Seed production potential of <i>Echinochloa colona</i> exposed to sublethal herbicide doses and high-temperature stress | Juan C. Velásquez, Eduarda Mena-Barreto, Matheus M. Nogueira, and Nilda Roma-Burgos |
| | 13 | 99 | 49 | 12/5/22 | 9:45 | 10:45 | Florpyrauxifen-Benzyl selectivity to rice | Juan C. Velásquez, Angela D.C. Bundt, Edinaldo R. Camargo, André Andres, Vivian E. Viana, Verónica Hoyos, Guido Plaza, and Luis A. Avila |
| | 13 | 99 | 50 | 12/7/22 | 15:15 | 16:15 | A mutation in a transcription factor imparts non-target site herbicide resistance in rice | Srishti Gupta, Todd A. Gaines, Franck E. Dayan, Caleb Knepper, and Venu Channarayappa |
| Chair | 14 | 0 | 0 | | | | Weed Biology and Ecology | MTO: Dr. Michaela Kolářová |
| | 14 | 99 | 51 | 12/5/22 | 9:45 | 10:45 | Response of selected weedy rice populations to varying nitrogen rates | Analiza Henedina M. Ramirez, and Mary Joy M. Abit |
| | 14 | 99 | 52 | 12/7/22 | 15:15 | 16:15 | Insights into the Genetic Spatial Structure of Nicaraguan Weedy Rice and Control of Its Seed Spread | Wei-Chun Hsu, Dong-Hong Wu, Szu-Wu Chen, Sergio Antonio Cuadra Castillo, Sih-Dun Huang, Chang-Pei Li, and Yun-Ping Wang |
| | 14 | 99 | 53 | 12/5/22 | 9:45 | 10:45 | Floristic Composition of Seedbanks after Six Years of Integrated Cropping Systems | Fernanda S. Ikeda, S. D. Cavalieri, F. M. Lima Júnior, M. V. Chapla, L. H. Metz, B. T. Fonseca, F. Poltronieri, and A. J. Silva |
| | 14 | 99 | 54 | 12/7/22 | 15:15 | 16:15 | Floristic composition of soil seedbank following five years of integrated crop-livestock-forestry systems and shading levels | Fernanda S. Ikeda, S. D. Cavalieri, F. M. Lima Júnior, M. V. Chapla, L. H. Metz, B. T. Fonseca, F. Poltronieri, and A. J. Silva |
| | 14 | 99 | 55 | 12/5/22 | 9:45 | 10:45 | Balance of Air and Soil Temperatures required for crop and weed growth for a greenhouse experiment | Ji-Eun Lee, Won-Cheol Lee, Min-Jung Yook, Soo Hyun Lim, Seung-Hui Mun, and Do-Soon Kim |
| | 14 | 99 | 56 | 12/7/22 | 15:15 | 16:15 | Morphological characterization of advanced generations of hybrids between <i>Aegilops geniculata</i> and wheat. Seed burial effect on the emergence of the F5 hybrid generation | Concepción Escorial, Cristina Chueca, and Iñigo Loureiro |
| | 14 | 99 | 57 | 12/5/22 | 9:45 | 10:45 | Climate change may compromise ecosystem services of grass groundcovers in Mediterranean olive groves: impact of increased aridity on weed fecundity and performance. | Laura Ruiz-Torres, Luisa María Martínez Martínez, Pedro Rey Zamora, and Antonio José Manzaneda Ávila |
| | 14 | 99 | 58 | 12/7/22 | 15:15 | 16:15 | Performance of Panicum maximum on Soil Contaminated with Heavy Metals in Cameroon | Ayeoffe F. Lum, and David Chikoye |
| | 14 | 99 | 59 | 12/5/22 | 9:45 | 10:45 | The effect of grazing on grassland plant communities in Praděd Natural Reserve (Czech Republic) | Michaela Kolářová, Josef Holec, Marie Mrázková, Radek Stencl, and Luděk Tyšer |
| Chair | 15 | 0 | 0 | | | | Weed Issue in Asia | MTO: Dr. Virender Kumar |
| | 15 | 99 | 60 | 12/7/22 | 15:15 | 16:15 | Bean (<i>Phaseolus vulgaris</i> L.) response and weed control efficacy of pre-plant-incorporation of pendimethalin | Achdari G, Matzrafi M, Lati R.N, and Eizenberg H. |
| | 15 | 99 | 61 | 12/5/22 | 9:45 | 10:45 | Standardization of spray technique for PRE herbicides in zero-tillage wheat with rice residue retention | Charul Chaudhary, Dharam Bir Yadav, Ashok Yadav, and VS Hooda |
| | 15 | 99 | 62 | 12/7/22 | 15:15 | 16:15 | Weed management in direct seeded rice through herbicide combinations under different tillage practices in eastern Indian | Deepak Kumar Jaiswal, and Buddhadeb Duary |
| | 15 | 99 | 63 | 12/5/22 | 9:45 | 10:45 | Genetic variation of weedy rice biotypes found in rice areas in the Philippines | Leylani M. Juliano, Xavier Greg I. Caguait, Editha V. Evangelista, Edwin C. Martin, and Analiza M. Ramirez |
| | 15 | 99 | 64 | 12/7/22 | 15:15 | 16:15 | Herbicidal performance of tolypralate in Indian corn fields | Ryu Yamada, Hiroshi Kikugawa, Hiroyuki Okamoto, Hirotohi Kurisutani, Jun Sawano, and Rajeev Goel |
| Chair | 17 | 0 | 0 | | | | Weed Resistance | MTOs: Dr. Aldo Merotto Jr., Dr. Satoshi Iwakami and Dr. Caio Brunharo |
| | 17 | 99 | 65 | 12/5/22 | 9:45 | 10:45 | Getting Farmers to Adopt Integrated Weed Management Measures – Show Them It Pays Off | Harry Streck, Bodo Peters, Magalie Devavry, Christian Milz, Hans-Peter Naueim, and Catherine DeVulder |
| | 17 | 99 | 66 | 12/7/22 | 15:15 | 16:15 | Distribution of paraquat-resistant Eleusine indica in corn fields in North Sumatra | Edison Purba, Nursa'adah, Octavianus Sinuraya, and Midzon L. I. Johannis |
| | 17 | 99 | 67 | 12/5/22 | 9:45 | 10:45 | Complaint follow-up for early detection of herbicide weed resistance: a tool for farmer profitability | Alberto Collavo |
| | 17 | 99 | 68 | 12/7/22 | 15:15 | 16:15 | To change or not to change: Fitness costs associated with four mutant acetolactate synthase alleles giving herbicide resistance in <i>Amaranthus palmeri</i> from Spain | Alfredo Manicardi, Joel Torra, Jordi Recasens, and Jorge Lozano-Juste |
| | 17 | 99 | 69 | 12/5/22 | 9:45 | 10:45 | Identification of <i>Lolium rigidum</i> gaud. resistance to clodinafop propargyl herbicide from wheat field of Golestan province | Ali Tavassoli, Rafael De Prado, Marai D. Osuna, Escandar zand, Farshid ghaderifar, and Javid Gherekhloo |
| | 17 | 99 | 70 | 12/7/22 | 15:15 | 16:15 | Weed resistance identification potential by NIR spectroscopy | Andréia Flores Braga, Luis Carlos da Cunha Júnior, Juliana de Souza Rodrigues, Renata Thaysa da Silva Santos, and Pedro Luis da Costa Aguiar Alves |

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| | 17 | 99 | 71 | 12/5/22 | 9:45 | 10:45 | Reduction of translocation as mechanism of resistance in <i>Conyza sumatrensis</i> resistant to 2,4-D | Camila Pinho, Jéssica Leal, Amanda Souza, André Simões, Scott Nissen, and Todd Gaines |
| | 17 | 99 | 72 | 12/7/22 | 15:15 | 16:15 | Epigenetic regulation, flavonoid synthesis, and its influence on imazethapyr herbicide tolerance | Catarine Markus, Aldo Merotto Júnior, and Ales Pecinka |
| | 17 | 99 | 73 | 12/5/22 | 9:45 | 10:45 | Can <i>Elymus indica</i> evolving resistance to glyphosate hinder chemical management in Spanish vineyards? | German Mora, Joel Torra, Alfredo Manicardi, and Jordi Recasens |
| | 17 | 99 | 74 | 12/7/22 | 15:15 | 16:15 | Cross-Resistance of the troublesome grass weeds to commonly used ACCase-Inhibiting herbicides of canola | Hamidreza Sasanfar, Eskandar Zand, and Mohammad Hosein Zamani |
| | 17 | 99 | 75 | 12/5/22 | 9:45 | 10:45 | Response of <i>Echinochloa crus-galli</i> (L.) Beauv. populations to the ALS-inhibiting herbicide nicosulfuron | María Arias-Martín, Concepción Escorial, Zeus Homos, and Ifiigo Loureiro |
| | 17 | 99 | 76 | 12/7/22 | 15:15 | 16:15 | Integrated weed management strategies for the depletion of multiple-herbicide-resistant waterhemp seed in the soil seed bank | Nader Soltani, and Peters H. Sikkema |
| | 17 | 99 | 77 | 12/5/22 | 9:45 | 10:45 | Rotation of herbicide modes of action is effective to control multiple resistance in barnyardgrass (<i>Echinochloa crus-galli</i>) populations in Thailand | Pruchya Ekkathin, Yurawan Anantanamane, and Chanya Maneechote |
| | 17 | 99 | 78 | 12/7/22 | 15:15 | 16:15 | Phenotyping resistance to pre-emergent herbicides in <i>Lolium rigidum</i> populations to enable genetic mapping | Sofía Marques Hill, Roberto Busi, and Todd Gaines |
| | 17 | 99 | 79 | 12/5/22 | 9:45 | 10:45 | Unravelling 2,4-D resistance in interspecific chromosome substitution lines of cotton, <i>Gossypium hirsutum</i> L. | Loida M. Perez, Sukumar Saha, Johnie N. Jenkins, David M. Stelly, Jeffrey F. D. Dean, Mark Shankle, and Te-Ming Tseng |
| | 12 | 99 | 80 | 12/7/22 | 15:15 | 16:15 | A sclerotial mycoherbicide for management of an invasive ecosystem-disturbing plant, <i>Sicyos angulatus</i> , in Korea | Hwi-Seo Jang, Dae-Han Chae, Dalsoo Kim, and Sun-Hee Hong |