

Plant Health 2022

Program Schedule Overview

Schedule as of July 27.

Use the app or online schedule for the most current information and for full program details, including ticketed event designation.

SATURDAY, AUGUST 6				
FIELD TRIP: 2022 Ornamental Field Trip	7:00 AM	-	5:00 PM	Offsite
WORKSHOP: Biocontrol products for the management of fungicide resistance	8:00 AM	-	5:00 PM	303-305 Convention Center
WORKSHOP: Mentorship in STEM: Constructing an effective mentoring toolkit	8:00 AM	-	12:00 PM	310 Convention Center
WORKSHOP: Oxford Nanopore sequencing applications for plant pathologists	8:00 AM	-	5:00 PM	403-405 Convention Center
FIELD TRIP: Chestnut disease screening orchard, Sewickley Heights, PA	8:30 AM	-	12:30 PM	Offsite
Registration Open	1:00 PM	-	6:00 PM	Plant Health Hub Convention Center
WORKSHOP: Adapting Effective #SciComm to Ever-Changing Technologies and Shortened Attention Spans	1:00 PM	-	5:00 PM	310 Convention Center
APS Publications Board Meeting	1:00 PM	-	2:30 PM	315 Convention Center
APS PRESS Editorial Board Meeting	2:30 PM	-	4:00 PM	302 Convention Center
Speaker Ready Room Open - August 6	3:00 PM	-	6:00 PM	306 Convention Center
GROW Plant Health Exchange Leadership Committee	4:00 PM	-	5:30 PM	302 Convention Center
<i>PDMR</i> Editorial Board Meeting	4:00 PM	-	5:30 PM	315 Convention Center
First Timers' Orientation	5:00 PM	-	6:00 PM	319-320 Convention Center
Undergraduate Student Primer	6:00 PM	-	7:00 PM	319-320 Convention Center
SUNDAY, AUGUST 7				
APS Education Center Board Meeting	7:00 AM	-	9:00 AM	Fayette The Westin Pittsburgh
Vegetable Seed Industry Breakfast	7:00 AM	-	8:45 AM	303-305 Convention Center
APS Foundation Awardee Breakfast	7:00 AM	-	8:30 AM	308 Convention Center

Registration Open	7:30 AM	-	6:30 PM	Plant Health Hub	Convention Center
Poster Set-Up	8:00 AM	-	10:00 AM	Plant Health Hub	Convention Center
Exhibit Set-Up	8:00 AM	-	1:30 PM	Plant Health Hub	Convention Center
<i>Plant Health Progress</i> Senior Editors Meeting	8:00 AM	-	9:00 AM	Westmoreland West	The Westin Pittsburgh
<i>APS Phytopathology</i> Senior Editors' Meeting	8:00 AM	-	9:00 AM	Somerset	The Westin Pittsburgh
<i>APS Plant Disease</i> Senior Editors' Meeting	8:00 AM	-	9:00 AM	Cambria Room	The Westin Pittsburgh
North American Fungicide Resistance Action Committee (NA-FRAC) Meeting	8:00 AM	-	9:30 AM	301	Convention Center
Moderator Orientation	8:00 AM	-	8:30 AM	317-318	Convention Center
Speaker Ready Room Open - August 7	8:30 AM	-	4:00 PM	306	Convention Center
Member Listening Session	8:45 AM	-	9:45 AM	302	Convention Center
Plant Health Progress Associate & Senior Editors Meeting	9:00 AM	-	10:00 AM	Westmoreland West	The Westin Pittsburgh
<i>APS Phytopathology</i> Associate & Senior Editors Meeting	9:00 AM	-	10:00 AM	Somerset	The Westin Pittsburgh
<i>APS Plant Disease</i> Associate & Senior Editors Meeting	9:00 AM	-	10:00 AM	Cambria Room	The Westin Pittsburgh
Opening General Session	10:00 AM	-	11:00 AM	Spirit of Pittsburgh Ballroom	Convention Center
A Plant's-Eye View of History	Charles C. Mann				
Lunch Break	11:00 AM	-	12:30 PM	Plant Health Hub	Convention Center
Book Signing with Charles Mann	11:00 AM	-	12:00 PM	East Atrium-Level 3	Convention Center
Division Officers' Luncheon	11:00 AM	-	12:30 PM	315	Convention Center
APHIS Widely Prevalent Virus Committee Meeting	11:30 AM	-	12:30 PM	302	Convention Center
SPECIAL SESSION: Schroth - Faces of the Future Session: Epidemiology and Management	12:30 PM	-	3:30 PM	403-405	Convention Center
Developing metagenomic sequencing as a tool for pathogen surveillance and epidemiology	Veronica Roman-Reyna, Infectious Diseases Institute, The Ohio State University				

Disease management in nurseries—Establishing a system approach for disease management in ornamentals and translating it to vegetable transplants	Johanna Del Castillo Munera, University of California, Davis				
Using Foundational Epidemiology of Tar Spot to Develop Disease Prediction Tools in Corn	Camila Nicolli, University of Wisconsin - Madison				
Epidemiology and pathogen biology to improve sustainable agriculture practices in the Rio Grande Valley and beyond	Robin Choudhury, University of Texas Rio Grande Valley				
SPECIAL SESSION: Plant Foes New and Old: Brief Updates on Emerging and Re-emerging Diseases	12:30 PM	-	1:45 PM	406	Convention Center
Cotton leafroll dwarf virus and new emerging strains	Kathleen Martin, Auburn University				
Updates on grapevine red blotch virus and its associated disease	Elizabeth Cieniewicz, Clemson University				
Little cherry and X-disease in the Pacific Northwest	Scott Harper, Washington State University				
Emerging nematode diseases of the southeastern United States	Adrienne Gorny, North Carolina State University				
Emerging and re-emerging Bacteria (<i>Xylella fastidiosa</i> reemerging in peach)	Kendall Johnson, University of Georgia				
Updates on the synergistic virus disease maize lethal necrosis (MLN), and another global maize virus, maize yellow mosaic virus (MaYMV)	Lucy Stewart, USDA-ARS-Foreign Disease-Weed Science Research Unit				
Reemergence of sudden oak death in Oregon forests	Niklaus Grunwald, USDA ARS				
Emerging and Re-emerging Diseases in Hawaii: Fungal Attackers of Coffee and Macadamia	Lisa Keith, USDA-ARS				
Emerging viruses threatening cucurbit crops	William Wintermantel, USDA ARS				
SPECIAL SESSION: Indigenous and International Perspectives on Forest Pathology and Invasive Species	12:30 PM	-	1:45 PM	408-410	Convention Center
The Impacts of White Pine Blister Rust on Plateau Canoe Culture in the Inland Northwest	Marcus V. Warwell, USDA Forest Service Southern Region				
The Impacts of White Pine Blister Rust on Plateau Canoe Culture in the Inland Northwest	Shawn Brigman, Salishan Sturgeon Nose Canoes				
Intersection of Pine Wilt Disease with the Cultural Importance of Korean Red Pine (<i>Pinus densiflora</i>) in Korea	Mee-Sook Kim, USDA Forest Service				
The bioethics of combining science of host genomics and indigenous ethical frameworks in forest pathology, or similar	Phil Wilcox, Department of Mathematics and Statistics, University of Otago				
Mātauranga: Elevating and recognising indigenous knowledge of Aotearoa New Zealand Māori	Alby Marsh, The New Zealand Institute for Plant & Food Research Limited				
Title coming soon!	Kelly Church, Gun Lake Tribe of Potawatami Indians				
SPECIAL SESSION: Grower, Extension, & Industry Panel: Bio-fungicides, Advancements in Technology and Challenges to Adoption	12:30 PM	-	1:45 PM	413-415	Convention Center

Panelist (Grower)	Shubin Saha, Kentucky Fresh Harvest				
Panelist (Grower)	Logan Petrey, Grimmway Farms				
Panelist (Industry)	Michelle Leslie, Elemental Enzymes Ag & Turf				
Panelist (Academia)	Bhabesh Dutta, University of Georgia				
TECHNICAL SESSION: Next Generation Nematology	2:15 PM	-	3:30 PM	401-402	Convention Center
Evaluating diverse tomato genotypes for resistance to root-knot nematode, <i>Meloidogyne enterolobii</i>	2:15	-	2:30	Ashley Philbrick, NC State University	
Distribution of plant-parasitic nematodes in the soil profiles of creeping bentgrass putting greens in Missouri and Indiana	2:30	-	2:45	Asa McCurdy, Purdue University	
Development of a microwave system for eco-friendly soil sterilization of plant-parasitic nematodes	2:45	-	3:00	Intiaz Chowdhury, North Carolina State University	
Early <i>in situ</i> detection of beech leaf disease using near infrared spectroscopy and machine learning	3:00	-	3:15	Pierluigi Bonello, Department of Plant Pathology, The Ohio State University	
TECHNICAL SESSION: Characterization and Management of Plant Bacterial Pathogens	2:15 PM	-	3:30 PM	406	Convention Center
Diversity of Xanthomonad populations and management of bacterial spot disease of pepper in North Carolina	2:15	-	2:30	Ying-Yu Liao, North Carolina State University	
Plant Protease Inhibitors: A multifaceted protein is involved in potato soft rot/blackleg resistance	2:30	-	2:45	Janak Joshi, Colorado State University	
Characterization of Bacterial Spot of tomato in New York show a predominance of <i>X. perforans</i> and offers an insight into copper tolerance	2:45	-	3:00	Juan Gonzalez-Giron, Cornell Univ - Ithaca, NY	
Barley-infecting <i>Xanthomonas translucens</i> genomic groups are globally distributed	3:00	-	3:15	Nathaniel Heiden, Department of Plant Pathology, The Ohio State University	
TECHNICAL SESSION: Investigations into the Management of Toxin-Producing Fungal Pathogens	2:15 PM	-	3:30 PM	408-410	Convention Center
Making the Case for Packinghouse Sanitation: A Multi-Year Survey of Inoculum Sources in the Mid-Atlantic Apple Fruit Production and Storage Chain	2:15	-	2:30	Johanny Castro, Penn State University	
Characterization of <i>Aspergillus</i> spp. causing Ochratoxin Contamination of pistachios in California	2:30	-	2:45	Pummi Singh, University of California Davis	
Addressing Emerging Patulin Concerns in Washington State Apple Processing Industry: Survey and Characterization of Associated Fungal Species	2:45	-	3:00	Mustafa Jibrin, WSU	
Integrated Management of Gibberella ear rot, stalk rot, and deoxynivalenol in silage corn (<i>Zea mays</i>)	3:00	-	3:15	Maxwell Chibuogwu, University of Wisconsin-Madison	
Sample Size Matters: Interpretation of Fusarium Head Blight Results in Field Experiments	3:15	-	3:30	Wanderson Moraes, The Ohio State University	
TECHNICAL SESSION: Microbial Composition and Function in the Phytobiome	2:15 PM	-	3:30 PM	413-415	Convention Center

Foliar inoculation of a citrus native bacterial consortium enriches beneficial leaf endophytic microbiome members against citrus canker	2:15	-	2:30	Jinyun Li, University of Florida	
Microeukaryotes of the solanaceous plant phyllosphere	2:30	-	2:45	Lindsay Triplett, Connecticut Agricultural Experiment Station	
Continental-scale identification of microbiome characteristics associated with healthy potatoes across diverse management practices	2:45	-	3:00	Scott Klasek,	
Unintended consequences of fungicide application on the soybean phyllosphere mycobiome	3:00	-	3:15	Heng-An Lin, University of Illinois at Urbana-Champaign	
Identifying the core wheat seed microbiome at a regional scale	3:15	-	3:30	Lindsey Becker, NC State	
APS Public Policy Board (PPB) Meeting	3:00 PM	-	4:30 PM	310	Convention Center
APS PRESS Bookstore Open	3:30 PM	-	6:30 PM	Plant Health Hub	Convention Center
Poster Viewing Hours	3:30 PM	-	6:30 PM	Plant Health Hub	Convention Center
Plant Health Hub Open (Exhibit Hall Open)	3:30 PM	-	6:30 PM	Plant Health Hub	Convention Center
Network with Exhibitors	3:30 PM	-	6:30 PM	Plant Health Hub	Convention Center
Opening Happy Hour	3:30 PM	-	5:30 PM	Plant Health Hub	Convention Center
Pitch 120 Event	4:30 PM	-	5:30 PM	Plant Health Hub	Convention Center
University Alumni Networking Events	5:30 PM	-	6:30 PM	Plant Health Hub	Convention Center
Diagnostics Working Group Meeting	6:00 PM	-	7:00 PM	302	Convention Center
MONDAY, AUGUST 8					
Extension Plant Pathologists' Breakfast	6:30 AM	-	7:45 AM	303-305	Convention Center
Speaker Ready Room Open - August 8	7:00 AM	-	4:00 PM	306	Convention Center
Committee Leadership Meeting	7:00 AM	-	8:00 AM	317-318	Convention Center
Poster Viewing Hours	8:00 AM	-	6:00 PM	Plant Health Hub	Convention Center
Plant Health Hub Open (Exhibit Hall Open)	8:00 AM	-	6:00 PM	Plant Health Hub	Convention Center
Registration Open	8:00 AM	-	6:00 PM	Plant Health Hub	Convention Center

APS PRESS Bookstore Open	8:30 AM	-	5:30 PM	Plant Health Hub	Convention Center
Plant Diagnostic Bowl (Day 1)	8:30 AM	-	9:45 AM	303-305	Convention Center
SESSION: Next Generation Breeding Strategies: The Innovative Solution to Broad Spectrum Disease Resistance, Championed by Corteva	8:30 AM	-	9:45 AM	401-402	Convention Center
Giant Starship Elements Mobilize Accessory Genes in Fungal Genomes	Emile Gluck-Thaler, The Ohio State University				
The use of Next Generation Breeding Technologies for the discovery, characterization, and deployment of disease resistance genes in maize	Shawn Thatcher, Corteva Agriscience				
Risk-disproportionate regulation is a significant obstacle to innovation: Genetically Modified Crops	Rod Herman, Corteva				
HOT TOPIC: Insights into Funding Opportunities for Plant Pathologists	8:30 AM	-	9:45 AM	403-405	Convention Center
SPECIAL SESSION: Epidemiology, Diagnosis, and Management of an Emerging Disease – Boxwood Blight	8:30 AM	-	9:45 AM	406	Convention Center
The Epidemic Since 2020: New Insights into Management of Boxwood Blight.	Nina Shishkoff, USDA ARS FDWSRU				
Nursery production decisions on plant spacing and irrigation affect risks for boxwood blight	Jerry Weiland, USDA-ARS Horticultural Crops Research Laboratory				
Boxwood blight management: A decision support tool for both infection and establishment risk	Leonard Coop, Oregon State University				
Diagnosis of boxwood blight: conventional to modern approach	Xiao Yang, Clemson University - Plant & Pest Diagnostic Clinic				
Integrating research results into a boxwood blight management program	James LaMondia, CT Agricultural Experiment Station				
SPECIAL SESSION: Innovative bioengineering tools for advanced agriculture, the path to a successful deployment.	8:30 AM	-	9:45 AM	413-415	Convention Center
CRISPR/Cas in addressing the challenges of citrus Huanglongbing, a pathogen-triggered immune disease	Nian Wang, University of Florida				
Citrus tristeza virus-based RNAi in citrus plants induces gene silencing in Diaphorina citri, a phloem-sap sucking insect vector of citrus greening disease	Nabil Killiny, University of Florida				
Translating discovery in plant science into positive impact for agriculture and the environment	Diana Horvath, 2Blades Foundation				
How Pairwise is Bringing Innovation to the Produce Aisle and to Farmers Alike	Marisa Miller, Pairwise Plants, LLC				
Plenary Session & Business Meeting	10:00 AM	-	11:15 AM	Spirit of Pittsburgh Ballroom	Convention Center
Unraveling the Role of Agriculture in Changing Climate	Danica Lombardozi, NCAR's Climate and Global Dynamics Laboratory				
Lunch Break	11:15 AM	-	12:30 PM	Plant Health Hub	Convention Center

Network with Exhibitors	11:15 AM	-	1:00 PM	Plant Health Hub	Convention Center
OIP Silent Auction	11:30 AM	-	6:00 PM	Plant Health Hub	Convention Center
Storkan-Hanes-McCaslin Research Foundation Luncheon	11:30 AM	-	1:30 PM	308	Convention Center
Widely Prevalent Plant Pathogenic Fungi Working Group, by invitation	11:30 AM	-	1:00 PM	315	Convention Center
USDA, ARS Meeting	11:30 AM	-	12:30 PM	316	Convention Center
Industry & Student Networking Event	11:30 AM	-	1:00 PM	319-320	Convention Center
TECHNICAL SESSION: Aerial Dispersal and Spread of Plant Pathogens Across Scales	12:30 PM	-	1:45 PM	401-402	Convention Center
Translating cropland and trade connectivity for mitigation of emerging pathogens: Priority locations globally and focusing on the Americas	12:30	-	12:45	Aaron Isai Plex Sulá, Food Systems Institute, University of Florida	
Predicting the spread of plant pests following major weather events	12:45	-	1:00	Weiqi Luo, ARS	
Incidence and spatial distribution of Walnut Witches' Broom in a butternut (<i>Juglans cinerea</i>) tree improvement program	1:00	-	1:15	Anna Conrad, USDA Forest Service	
Gathering dust: Exploring the aerobiology of <i>Xanthomonas hortorum</i> pv. <i>carotae</i> in carrot seed crops of central Oregon	1:15	-	1:30	Katelyn Baldino, Oregon State University	
Pathways of Phytoplasma Introduction to Alaska	1:30	-	1:45	Jenifer McBeath, niversity of Alaska Fairbanks (UAF)	
TECHNICAL SESSION: Research Advances in Fungicide Resistance	12:30 PM	-	1:45 PM	403-405	Convention Center
High fungicide resistance frequencies in <i>Botrytis cinerea</i> from ornamental greenhouses	12:30	-	12:45	Nicole Lukasko, Michigan State University	
Quantification of Mutations that Confer SDHI Fungicide Resistance in <i>Alternaria</i> Populations from Pistachios Using Real-Time PCR	12:45	-	1:00	Boris Camiletti, UC Davis	
Sensitivity of <i>Diaporthe</i> species causing Phomopsis stem canker of sunflower to tebuconazole fungicide	1:00	-	1:15	Karthika Mohan, South Dakota State University	
Decline in fungicide efficacy for managing frog-eye leaf spot on soybean in the United States: a meta-analysis	1:15	-	1:30	Jhonatan Barro, University of Kentucky	
Fungicide-resistant <i>Botrytis</i> spp. isolates from Norway spruce seedlings and forest nursery facilities	1:30	-	1:45	Katherine Nielsen, The Norwegian Institute of Bioeconomy Research (NIBIO)	
TECHNICAL SESSION: Mechanisms of Defense and Functional Genetics of Host-Pathogen Interactions	12:30 PM	-	1:45 PM	406	Convention Center
Investigating the contribution of cutin to host susceptibility to fruit rot of tomato	12:30	-	12:45	Patrick McMullen, Cornell University	
RxLR effectors secreted by <i>Phytophthora cactorum</i> induce cell death when transiently expressed in <i>Nicotiana benthamiana</i> leaves	12:45	-	1:00	Bikal Ghimire, Faculty of Biosciences, Norwegian University of Life Sciences (NMBU)	

Identifying genetic control of ROS in <i>Magnaporthe oryzae</i> through development, screening, and characterization of a random insert mutant library.	1:00	-	1:15	Jessica Cooper, Plant and Soil Sciences Department, University of Delaware	
Catching the right mutation: lessons learned from the enhanced disease resistance mutants of wheat	1:15	-	1:30	Ksenia Krasileva, University of California Berkeley	
Is there a role of terpenoids in systemic induced resistance in conifers?	1:30	-	1:45	Soumya Ghosh, The Ohio State University	
SPECIAL SESSION: Plant Pathologists of the Future: Showcasing Graduate Student Presentation Winners from APS Division Meetings	12:30 PM	-	2:30 PM	408-410	Convention Center
Tank-mix partners selectively enhance the efficacy of DMI fungicides in controlling <i>Cercospora</i> leaf spot of sugar beet	Austin Lien, University of Minnesota NWROC				
Reduced risk and chitosan treatments suppress apple scab caused by <i>Venturia inaequalis</i> on leaves and fruit	Liza DeGenring, University of New Hampshire				
The role of irrigation in disease development and management of <i>Macrophomina</i> crown rot on strawberries	Lindsey Pedroncelli, University of California				
Potomac Division Winner	Taylor Schulden, University of Maryland				
The function of syncytium highly interconnected protein kinase hub genes in the soybean-soybean cyst nematode interaction	Tracy Hawk, University of Tennessee				
Community structure of <i>Exserohilum turcicum</i> associated with maize cultivars across locations in Nigeria	Faith Bankole, First Technical University				
TECHNICAL SESSION: Viral Disease Epidemiology	12:30 PM	-	1:45 PM	413-415	Convention Center
Virus Infection Impacts Host Fitness and Plant-Pollinator Interactions in Both Wild and Domesticated Plants	12:30	-	12:45	Chauncy Hinshaw, Penn State University	
Evaluating the threat of introducing non-European virus isolates of Tomato leaf curl New Delhi virus into Europe	12:45	-	1:00	Paolo Margaria, DSMZ	
Molecular epidemiology of cotton leafroll dwarf virus in southeastern United States	1:00	-	1:15	Cesar Escalante, Auburn University	
Comparative analysis of grapevine red blotch virus transmission by two genotypes of the three-cornered alfalfa hopper, <i>Spissistilus festinus</i> .	1:15	-	1:30	Madison Flasco, Cornell University	
Epidemiology and emergence of a thrips-transmitted virus affecting California and Arizona lettuce production	1:30	-	1:45	Daniel Hasegawa, USDA-ARS, Crop Improvement and Protection Research Unit	
TECHNICAL SESSION: Plant Perception of Pathogen Attack	2:00 PM	-	3:15 PM	401-402	Convention Center
The rise of the resistance: genetic engineering strategies against cotton bacterial blight	2:00	-	2:15	Jovana Mijatovic, University of Georgia	
Identification and functional characterization of a citrus chitin receptor	2:15	-	2:30	Tianrun Li, University of California, Davis	
<i>Ralstonia solanacearum</i> K60 type III effector impacts the cytoskeleton inside host cells	2:30	-	2:45	Rachel Hiles, Purdue University	
Transcriptomic Changes Induced by Exogenous NAD ⁺ in Snap Bean against <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> Revealed by RNA-Sequencing	2:45	-	3:00	Yi Huang, University of Florida	

Unveiling NLR gene diversity in hexaploid sweetpotato cultivars	3:00	-	3:15	Camilo Parada Rojas, Department of Entomology and Plant Pathology, and NC Plant Sciences Initiative	
TECHNICAL SESSION: New Tools, Insights, & Considerations for Disease Management	2:00 PM	-	3:15 PM	403-405	Convention Center
Use of a foliar heat treatment to improve <i>Cercospora</i> leaf spot management in sugarbeet	2:00	-	2:15	Alexandra Hernandez, Michigan State Univ	
Managing impacts of water scarcity-driven deficit irrigation practices on soil borne disease losses in California processing tomato	2:15	-	2:30	Justine Beaulieu, University of California, Davis	
Rhizosphere and endosphere microbiomes associated with reduced wheat yields following canola	2:30	-	2:45	Dan Schlatter, USDA- ARS	
Leaf wetness, temperature, and phenological stage for predicting ripe rot of wine grapes, caused by <i>Colletotrichum fioriniae</i>	2:45	-	3:00	Scott Cosseboom, University of Maryland	
Avocado laurel wilt: Scenario analysis to support mitigation strategies before laurel wilt spreads to new regions	3:00	-	3:15	Romaric Arnel Mouafo Tchinda, Plant Pathology Department, University of Florida	
TECHNICAL SESSION: Chemical Control	2:00 PM	-	3:15 PM	406	Convention Center
Skirting around the issue: Can raising the tree skirt and shifting the fungicide treatment window change citrus black spot management outcomes?	2:00	-	2:15	Eva Mulandesa, Citrus Research and Education Center - University of Florida	
Pyraclostrobin fungicides can mitigate the severity of Phomopsis Stem Canker in Sunflower (<i>Helianthus annuus</i>)	2:15	-	2:30	Ruchika Kashyap, SDSU	
Efficacy of adepidyn fungicide to manage Sclerotinia stem rot on canola	2:30	-	2:45	Venkataramana Chapara, Department of Plant Pathology, North Dakota State University	
In search of effective copper alternatives: Performance of plant defense activators and sulfur against cabbage black rot in Florida	2:45	-	3:00	Renzo Ramirez, University of Florida	
TECHNICAL SESSION: Improved Molecular Diagnostic Tools for Viruses	2:00 PM	-	3:15 PM	413-415	Convention Center
Development of multiplex RT-RPA assay for simultaneous detection of whitefly and aphid transmitted viruses in field-based conditions.	2:00	-	2:15	Abdul Kader Jailani, University of Florida	
CRISPR-Cas12a based next generation method for detecting rhizomania causing Beet necrotic yellow vein virus in sugarbeet	2:15	-	2:30	Vanitharani Ramachandran, USDA-ARS	
Development and validation of a TaqMan real time RT-PCR assay for the detection of the exotic legume pathogen, Pea early browning virus	2:30	-	2:45	Chellappan Padmanabhan, USDA APHIS PPQ, S&T Beltsville Laboratory	
Evaluating the use of synthetic oligonucleotide as a positive control in the detection of ToBRFV in seeds.	2:45	-	3:00	Zen McKenzie, Texas A&M University	
Inter-laboratory validation studies using high-throughput sequencing for detection of viruses and viroids infecting specialty crops	3:00	-	3:15	Peter Abrahamian, USDA-APHIS-PPQ-PPCDL	
APS-SBF Working Group Meeting	2:30 PM	-	3:30 PM	302	Convention Center
Network with Exhibitors	3:15 PM	-	6:00 PM	Plant Health Hub	Convention Center
Plant Health Hub Networking Break	3:15 PM	-	6:00 PM	Plant Health Hub	Convention Center

Phytopathologist of Distinction (POD) Talks	3:30 PM	-	4:30 PM	Plant Health Hub	Convention Center
Biosecurity and Microbial Forensics Interest Group Meeting	3:45 PM	-	5:15 PM	315	Convention Center
Poster Viewing with Authors Present (P001-P309, Odds)	4:00 PM	-	4:45 PM	Plant Health Hub	Convention Center
POSTERS: Disease Resistance - Odd					
POSTERS: Biological Control - Odd					
POSTERS: Chemical and Biopesticide Control - Odd					
POSTERS: Crop Loss - Odd					
POSTERS: Emerging Technologies - Odd					
POSTERS: Epidemiology - Odd					
POSTERS: Fungicide Resistance - Odd					
POSTERS: Genetics of Resistance - Odd					
POSTERS: Integrated disease management - Odd					
POSTERS: Molecular Plant-Microbe Interactions - Odd					
Award Ceremony	4:00 PM	-	5:00 PM	Westmoreland	The Westin Pittsburgh
Poster Viewing with Authors Present (P311-P593, Odds)	4:45 PM	-	5:30 PM	Plant Health Hub	Convention Center
POSTERS: Pathogen surveys - Odd					
POSTERS: Postharvest pathology - Odd					
POSTERS: New and Emerging Diseases - Odd					
POSTERS: Pathogen Vector/Insect Interactions - Odd					
POSTERS: Soilborne diseases - Odd					
POSTERS: Outreach and Extension - Odd					
POSTERS: Phytobiomes - Odd					
Late-Breaking Submission - Odd					
POSTERS: Pathogen biology - Odd					
POSTERS: Population biology - Odd					
POSTERS: Mycotoxins - Odd					
POSTERS: Pathogen detection and quantification - Odd					
IDEA CAFÉ: How to Grow and Mobilize a Committee or Office	5:00 PM	-	6:00 PM	303-305	Convention Center
IDEA CAFÉ: The National Forest Pathology Assessment	5:00 PM	-	6:00 PM	303-305	Convention Center
IDEA CAFÉ: PCN cyst counting techniques in soil samples	5:00 PM	-	6:00 PM	303-305	Convention Center

IDEA CAFÉ: Pipelines for HTS in Virus Diagnostics	5:00 PM	-	6:00 PM	303-305	Convention Center
IDEA CAFÉ: Reaching Out For Pathogens And Pathologists During Cataclysm	5:00 PM	-	6:00 PM	303-305	Convention Center
IDEA CAFÉ: Extension to Bridge the Gap Between Agriculture and Consumers	5:00 PM	-	6:00 PM	303-305	Convention Center
IDEA CAFÉ: Big Questions in Agricultural Microbiome Science	5:00 PM	-	6:00 PM	303-305	Convention Center
Publications Senior Editors' Reception	6:00 PM	-	7:00 PM	Somerset	The Westin Pittsburgh
Early Career Professionals' Networking	6:00 PM	-	7:00 PM	319-320	Convention Center
LGBTQIA+ Networking Event	7:30 PM	-	9:00 PM	Allegheny Overlook	
Industry & Extension Networking Event	7:30 PM	-	10:00 PM	Shortys Pins x Pints	

TUESDAY, AUGUST 9

Annual Meeting Board Meeting	7:00 AM	-	8:45 AM	Fayette	The Westin Pittsburgh
Speaker Ready Room Open - August 9	7:00 AM	-	3:00 PM	306	Convention Center
Sustaining Associates and OPSR Breakfast, by invitation	7:00 AM	-	8:15 AM	308	Convention Center
Small Fruit Diseases Workers' Discussion	7:30 AM	-	9:30 AM	303-305	Convention Center
Registration Open	7:45 AM	-	5:00 PM	Plant Health Hub	Convention Center
Poster Viewing Hours	8:00 AM	-	5:00 PM	Plant Health Hub	Convention Center
Plant Health Hub Open (Exhibit Hall Open)	8:00 AM	-	5:00 PM	Plant Health Hub	Convention Center
SPECIAL SESSION: New Products and Services	8:00 AM	-	11:00 AM	401-402	Convention Center
Inatreq™ and Adavelt™ actives affect multiple infection stages of Zymoseptoria tritici on wheat plants	Chenglin Yao, Corteva Agriscience				
FMC Product Update: Rhyme and Xyway	Alix Whitener, FMC Corporation				
Inatreq™ and Adavelt™ actives, two novel Qil fungicides for control of Zymoseptoria tritici on wheat plants	Claudio Vrisman, Corteva Agriscience				
Vectorite with CR-7, a bee vectoring technology	Mason Newark, Bee Vectoring Technology				

Timorex ACT, a new OMRI listed biopesticide for broadspectrum disease control	James Frank, Summit Agro				
A data standrization solution for legacy and ongoing plant health experimental efforts	Shai Sela, Agmatix				
Zoxium® 240 SC Zoxamide fungicide. New solution for black sigatoka Control	Jairo Melgarejo, Gowan Crop Protection				
Ecoswing SL Botanical Fungicide to control black sigatoka in banana	Jairo Melgarejo, Gowan Crop Protection				
Recent trends in synthetic fungicide discovery and development	Gerd Stammler, BASF SE				
Recent trends in Biofungicide discovery and development	Julia Crane, Valent BioSciences				
HOT TOPIC: Mentoring Across Differences: Approaches for Enhancing the Effectiveness of Cross-Cultural Mentoring	8:00 AM	-	9:15 AM	403-405	Convention Center
SPECIAL SESSION: Unraveling and Tackling Bacterial Seedborne Pathogens	8:00 AM	-	9:15 AM	406	Convention Center
Role of seed health organizations in developing and validating testing methods	Gary Munkvold, Iowa State University				
Current understanding on seedborne bacterial pathogens, diagnostics, and seed treatments	Bhabesh Dutta, University of Georgia				
Seedborne bacterial pathogens and their impacts on the vegetable seed production industry: prevention, testing, and disinfection	Sierra Hartney, Sakata Seed America, Inc.				
SPECIAL SESSION: 21st I. E. Melhus Graduate Student Symposium: Quantitative approaches to crop loss assessment and disease risk in a changing environment	8:00 AM	-	11:00 AM	408-410	Convention Center
Environmental Conditions after Fusarium Head Blight Visual Symptom Expression affect the Fate of Deoxynivalenol in Wheat Grain	Wanderson Moraes, The Ohio State University				
Linking Plant Disease to Climate and Weather Data in The Age of Digital Data: Case Studies on Soybean Rust and White Mold	Kaique Alves, Universidade Federal de Viçosa				
How growers make decisions impacts plant disease control.	Rachel Murray-Watson, University of Cambridge				
Pathogenic and saprophytic growth and spread of soilborne <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i>	Roy Davis, Texas A&M University				
Epidemiology and Ecology of Cucurbit Downy Mildew: Temporal Dynamics, Oospore Occurrence and Shifts in Fungicide Sensitivity	Isaack Kikway, North Carolina State University				
SPECIAL SESSION: For Better or Worse: A World Without Broad-Spectrum Fungicides	8:00 AM	-	9:15 AM	413-415	Convention Center
Role of Broad-Spectrum Fungicides in Managing Vegetable Diseases and Fungicide Resistance	Margaret McGrath, Cornell University				

How to extend fungicides effective life without broad-spectrum fungicides	Mamadou Mboup, Corteva Agriscience			
USDA's Office of Pest Management Policy (OPMP): OPMP's mission and role in the Registration Review process for the multi-site fungicides	Kimberly Nesci, Office of Pest Management Policy, USDA			
APS PRESS Bookstore Open	8:30 AM	-	5:00 PM	Plant Health Hub Convention Center
TECHNICAL SESSION: Molecular Plant-Microbe Interactions	9:45 AM	-	11:00 AM	303-305 Convention Center
Physiological and transcriptional responses of drought-stressed black walnut infected with thousand cankers disease caused by <i>Geosmithia morbida</i>	9:45	-	10:00	Jane Stewart, Colorado State University
Towards elucidating the obligate biotroph nature of the corn pathogen <i>Phyllachora maydis</i>	10:00	-	10:15	Joshua MacCready,
Reconstructing the gene regulatory networks that govern maize- <i>Puccinia sorghi</i> interactions with integrated multi-omics	10:15	-	10:30	Steven Whitham, Iowa State University
Mechanisms of pine disease susceptibility under experimental climate change	10:30	-	10:45	Pierluigi Bonello, Department of Plant Pathology, The Ohio State University
Revealing the effector repertoire of the sweetpotato black rot fungal pathogen <i>Ceratocystis fimbriata</i>	10:45	-	11:00	Camilo Parada Rojas, Department of Entomology and Plant Pathology, and NC Plant Sciences Initiative
TECHNICAL SESSION: Novel Viruses	9:45 AM	-	11:00 AM	403-405 Convention Center
Diagnostic and diversity of a novel Secovirid affecting cassava in the Americas	9:45	-	10:00	Jenyfer Jiménez Polo, International Center for Tropical Agriculture (CIAT)
Are latent viruses affecting apple tree performance in high-density orchards?	10:00	-	10:15	Anna Wunsch, Cornell University
The first whitefly-transmitted polerovirus in pepper, disease epidemiology and interactions with the vector	10:15	-	10:30	Murad Ghanim, Volcani Center
Three novel recombinants of potato virus Y (PVY) from <i>Solanum betaceum</i> belong to the PVY ^N strain group and are unable to systemically spread in potato	10:30	-	10:45	Alexander Karasev, University of Idaho
Detection of emerging viral diseases in Wisconsin Iris production	10:45	-	11:00	Derrick Grunwald, University of Wisconsin-Madison
TECHNICAL SESSION: Genomics, Genetics, and Virulence of Plant Pathogenic Bacteria	9:45 AM	-	11:00 AM	406 Convention Center
The complex and compartmentalized cyclic di-GMP signaling network is a global regulator of phase-transition and host colonization in <i>Erwinia amylovora</i>	9:45	-	10:00	Roshni Kharadi, Michigan State University
Investigating possible gene-for-gene interaction between lettuce and the bacterial leaf spot pathogen	10:00	-	10:15	Emma Rosenthal, Penn State University
The <i>diageotropica (dgt)</i> mutation contributes to tomato resistance to <i>Ralstonia solanacearum</i> through an SA-independent mechanism	10:15	-	10:30	Katherine Rivera-Zuluaga, Purdue University
Effector-mediated resistance restricts pathogen host range in the <i>Clavibacter</i> genus	10:30	-	10:45	Danielle Stevens, University of California, Davis
Expanding population of <i>Xanthomonas perforans</i> on pepper in Florida	10:45	-	11:00	Aastha Subedi, Department of Plant Pathology, University of Florida

TECHNICAL SESSION: Integrated Pest Management	9:45 AM	-	11:00 AM	413-415	Convention Center
Integrated management of Fusarium head blight and deoxynivalenol in organic winter wheat systems	9:45	-	10:00	Kelly Debbink, University of Wisconsin-Madison	
Efficacy of crop termination, bed fumigation, and host resistance for controlling Verticillium wilt of strawberry under California growing conditions	10:00	-	10:15	Jack Koster, California Polytechnic State University, Strawberry Center	
Data standardization can boost collaborative efforts in plant pathology research: Current state of the art with application to SDS prediction modeling	10:15	-	10:30	Shai Sela, Agmatix	
Evaluation of Leaf Spot Resistance in Peanut with Alleles from the Wild Species <i>Arachis cardenasii</i>	10:30	-	10:45	Maricel Gonzales, University of Georgia	
Site-specific soil pest management in strawberry & vegetable cropping systems	10:45	-	11:00	Frank Martin, USDA ARS	
Lunch Break	11:00 AM	-	12:30 PM	Plant Health Hub	Convention Center
Network with Exhibitors	11:00 AM	-	12:30 PM	Plant Health Hub	Convention Center
APS Past Presidents' Meeting	11:15 AM	-	12:30 PM	301	Convention Center
Member Listening Session	11:15 AM	-	12:15 PM	302	Convention Center
APHIS Widely Prevalent Bacteria Committee Meeting	11:30 AM	-	12:30 PM	315	Convention Center
Plant Diagnostic Bowl (Day 2)	12:30 PM	-	1:45 PM	303-305	Convention Center
SESSION: Understanding Biofungicides in Plant Disease Management: an overview of modes of actions with case studies, Championed by Corteva	12:30 PM	-	1:45 PM	401-402	Convention Center
Senior Scientist at Elemental Enzymes Ag & Turf	Michelle Leslie, Elemental Enzymes Ag & Turf				
CEO of Andermatt USA	Russell Blair, Andermatt USA				
SPECIAL SESSION: There's a Collection for that.....	12:30 PM	-	1:45 PM	403-405	Convention Center
The U. S. National Fungus Collections – a vital resource for understanding plant diseases and their history	Lisa Castlebury, USDA ARS MNGDBL				
Germplasm repositories: the major resource in the quest to characterize 'phantom' diseases	Ioannis Tzanetakos, University of Arkansas				
An overview of European microbial collections, the development of microbiome biobanks and the opportunities and challenges surrounding their development.	Matthew Ryan, Centre for Agriculture and Bioscience International (CABI)				
Pacific Bacterial Collection at the University of Hawaii: A valuable resource for genetic, evolutionary, taxonomic and epidemiological studies	Mohammad Arif, University of Hawaii at Manoa				
The National Plant Germplasm System: an example of a genetic resource management network	Timothy Widmer, USDA ARS				

SPECIAL SESSION: Mycotoxigenic fungal disease epidemics and postharvest mycotoxin contamination of grains in the face of climate change	12:30 PM	-	1:45 PM	406	Convention Center
Impact of postharvest patulin production on host - pathogen - microbe interaction	Holly Packard Bartholomew, USDA-ARS, Food Quality Laboratory				
Predictive modeling tool: An asset for preventing mycotoxin contamination in crops	Marco Camardo Leggieri, Università Cattolica del Sacro Cuore				
Climate Change and Mycotoxin Risk: biotic and abiotic factors	Felicia Wu, Michigan State University				
Is it possible to predict deoxynivalenol contamination of grain based on field disease severity?	Laurence Madden, Ohio State University				
Statistical sampling of contaminated grain for increased accuracy of aflatoxin detection	Ross Darnell, CSIRO				
SPECIAL SESSION: Advances in Sensing, Robotics, and Machine Learning to Address Plant Health Issues	12:30 PM	-	1:45 PM	413-415	Convention Center
Phenotyping of plant diseases and advances in precision crop protection	Ian Small, University of Florida				
Equitable AI, applications of AI in the context of developing countries	Rimnoma Ouedraogo, Penn State University				
Grapevine protection sensing: monitoring fungicide activity with <i>in situ</i> spectroscopy	Nikita Gambhir, Cornell University				
How Machine learning can be applied in genomics of plant disease	Jose Huguet-Tapia, University of Florida				
Optical sensing for disease detection in tree crops	Reza Ehsani, Professor				
Network with Exhibitors	1:45 PM	-	5:00 PM	Plant Health Hub	Convention Center
Plant Health Hub Networking Break	1:45 PM	-	5:00 PM	Plant Health Hub	Convention Center
Phytopathologist of Distinction (POD) Talks	2:00 PM	-	3:00 PM	Plant Health Hub	Convention Center
APS Speed Networking	2:00 PM	-	3:00 PM	Plant Health Hub	Convention Center
APS Divisional Forum	2:00 PM	-	3:00 PM	302	Convention Center
Poster Viewing with Authors Present (P002-P310, Evens)	2:30 PM	-	3:15 PM	Plant Health Hub	Convention Center
POSTERS: Epidemiology - Even					
POSTERS: Biological Control - Even					
POSTERS: Chemical and Biopesticide Control - Even					
POSTERS: Crop Loss - Even					
POSTERS: Disease Resistance - Even					

POSTERS: Emerging Technologies - Even					
POSTERS: Fungicide Resistance - Even					
POSTERS: Genetics of Resistance - Even					
POSTERS: Integrated disease management - Even					
POSTERS: Molecular Plant-Microbe Interactions - Even					
Academic Unit Leaders Forum (AULF), Hosted by APS	3:00 PM	-	4:30 PM	308	Convention Center
Industrial Hemp Diseases Working Group	3:00 PM	-	4:00 PM	315	Convention Center
Poster Viewing with Authors Present (P312-P594, Evens)	3:15 PM	-	4:00 PM		
Late-Breaking Submission - Even					
POSTERS: Mycotoxins - Even					
POSTERS: New and Emerging Diseases - Even					
POSTERS: Outreach and Extension - Even					
POSTERS: Pathogen biology - Even					
POSTERS: Pathogen detection and quantification - Even					
POSTERS: Pathogen surveys - Even					
POSTERS: Pathogen Vector/Insect Interactions - Even					
POSTERS: Phytobiomes - Even					
POSTERS: Population biology - Even					
POSTERS: Postharvest pathology - Even					
POSTERS: Soilborne diseases - Even					
One-to-One Conversations with an Expert	3:30 PM	-	4:30 PM	Plant Health Hub	Convention Center
IDEA CAFÉ: Extension and Outreach: how to reconnect with the stakeholders in the Covid era	3:30 PM	-	4:30 PM	303-305	Convention Center
IDEA CAFÉ: Can You Explain Your Research to Your Family?	3:30 PM	-	4:30 PM	303-305	Convention Center
IDEA CAFÉ: Planning for Change: Assisted Migration and the Role of Plant Pathologists	3:30 PM	-	4:30 PM	303-305	Convention Center
IDEA CAFÉ: What Skills Actually Matter to Undergraduates and How Do We Incorporate Those Into Our Curricula?	3:30 PM	-	4:30 PM	303-305	Convention Center
IDEA CAFÉ: Managing Microbial Friends and Foes in Controlled Environment Agriculture Food Production	3:30 PM	-	4:30 PM	303-305	Convention Center
Subject Matter Committee Networking Time	4:00 PM	-	5:00 PM	Plant Health Hub	Convention Center
Rock the Rivers Celebration Party	6:45 PM	-	10:00 PM	Roof Top	Convention Center

WEDNESDAY, AUGUST 10

Speaker Ready Room Open - August 10	7:00 AM	-	9:30 AM	306	Convention Center
APS PRESS Bookstore Open	8:15 AM	-	10:45 AM	Plant Health Hub	Convention Center
Poster Viewing Hours	8:15 AM	-	10:45 AM	Plant Health Hub	Convention Center
Plant Health Hub Open (Exhibit Hall Open)	8:15 AM	-	10:45 AM	Plant Health Hub	Convention Center
Registration Open	8:15 AM	-	12:00 PM	Plant Health Hub	Convention Center
TECHNICAL SESSION: Novel Tools In Molecular Diagnostics & Pathogen Identification	8:30 AM	-	9:45 AM	401-402	Convention Center
Comparative genomic approaches reveal race-specific markers for diagnostics of <i>Phytophthora nicotianae</i> race 0 and race 1 isolates.	8:30	-	8:45	Sarah Cochran, NC State University	
<i>PhytoPipe</i> : A Phytosanitary Pipeline for plant pathogen detection and diagnosis using RNA-seq data	8:45	-	9:00	Xiaojun Hu, USDA	
An open access T-BAS phylogeny for emerging <i>Phytophthora</i> species	9:00	-	9:15	Allison Coomber, North Carolina State University	
Development of the KRISP python tool and validation of a CRISPR Cas diagnostic assay for detection of <i>Phytophthora ramorum</i>	9:15	-	9:30	Niklaus Grunwald, USDA ARS	
SPECIAL SESSION: Vectors of Change: How Climate Change is Affecting the Biology of Vectors and Their Transmission of Pathogens	8:30 AM	-	9:45 AM	403-405	Convention Center
Aphid/Yellow dwarf viruses affecting cereal crops under increased CO2 levels and temperatures	Piotr Trebicki, Department of Economic Development				
Leafhopper/Pierce's Disease inoculation and spread – experimental and modeling in response to higher temperatures	Matthew Daugherty, University of California				
Drought stress and pathogen infection alter feeding behavior of a phytopathogen vector	Ada Szczepaniec, Colorado State University				
TECHNICAL SESSION: Biocontrol	8:30 AM	-	9:45 AM	406	Convention Center
Analysis of the apple leaf transcriptome in response to plant defense regulators and biopesticides used for fire blight management	8:30	-	8:45	Xiaochen Yuan, Michigan State University	
Management of Black Sigatoka in bananas and plantains using biocontrol bacteria	8:45	-	9:00	Mathias Twizeyimana, AgBiome, Inc.	
Biological control of the fungus <i>Phaeoconiella chlamyospora</i> in young grapevines by <i>Paenibacillus alvei</i> K165 and <i>Fusarium oxysporum</i> F2	9:00	-	9:15	Alexander Tako, North Carolina State University	
<i>Puccinia coronata</i> var. <i>coronata</i> significantly reduces biomass and rhizome production of invasive <i>Phalaris arundinacea</i> in a greenhouse trial	9:30	-	9:45	Nicholas Greatens, Department of Plant Pathology, University of Minnesota	
SPECIAL SESSION: Plant Forensics: building pipelines for rapid detection of plant health using high throughput approaches	8:30 AM	-	9:45 AM	413-415	Convention Center
Technological improvements and prospects of plant disease detection.	Emran Ali, University of Georgia				

A hydroponics based high throughput screening system for clubroot disease pathotyping	Edel Pérez-López, Université Laval				
CRISPR/Cas methods for supersensitive and rapid detection of bacterial plant pathogens	Yinong Yang, The Pennsylvania State University				
High throughput sequencing for virus diagnostics and discovery: Case study of blackberry viruses in South Carolina	Wanita Dantes, Clemson University				
Metagenomic sequencing for bacterial soft rot and blackleg of potato diagnostics	Taylor Klass, Department of Plant PathoThe Ohio State University				
Network with Exhibitors	9:45 AM	-	10:45 AM	Plant Health Hub	Convention Center
Plant Health Hub Break	9:45 AM	-	10:45 AM	Plant Health Hub	Convention Center
Exhibit Take-Down	10:45 AM	-	2:30 PM	Plant Health Hub	Convention Center
Closing General Session	10:45 AM	-	12:00 PM	Spirit of Pittsburgh Ballroom	Convention Center
Communicating in a Polarized Environment: Confronting Disinformation and Guiding Discussions around Controversial Topics	Stacy Rosenberg, Carnegie Mellon University's Heinz College				
Poster Take-Down	11:00 AM	-	12:30 PM	Plant Health Hub	Convention Center
APS Council Meeting	12:30 PM	-	3:00 PM	Cambria Room	The Westin Pittsburgh
Emerging Viruses in Cucurbit Working Group	1:00 PM	-	5:00 PM	315	Convention Center