

INDIAN PHYTOPATHOLOGICAL SOCIETY

National e-Conference

Plant Health and Food Security: Challenges and Opportunities

March 25-27, 2021

ICAR-IARI, Pusa Campus, New Delhi, India

Conference weblink: <http://joinconference.ipsdis.org/>

Hall	Zoom Link for all three days conference (i.e. March 25-27, 2021)	Meeting ID & Passcode
Hall 1	https://us02web.zoom.us/j/86303302267?pwd=OUZYd2xEaHRobHdoRHVoMDJPM0ptQT09	ID: 863 0330 2267 Passcode: 102370
Hall 2	https://us02web.zoom.us/j/81186328790?pwd=aEFDRUNNbWJwaGwvUDN1TUdCTExzUT09	ID: 811 8632 8790 Passcode: 955155
Hall 3	https://us02web.zoom.us/j/83078388487?pwd=eFFmWDlna1F1REp3czVUMEE0UVZLdz09	ID: 830 7838 8487 Passcode: 618202
Hall 4	https://us02web.zoom.us/j/81782330937?pwd=aHVMYkZ2bGwrdEFaZmNEUXhlamdCZz09	ID: 817 8233 0937 Passcode: 417006

PROGRAMME OF TECHNICAL SESSIONS

Day 01 (Thursday, March 25, 2021)		
10.00-11.30	Mundkur Memorial Award Lecture by Dr. C. Chattopadhyay, Joint Director Academic (Acting), ICAR-IIAB, Ranchi, Jharkhand Plant Pathology in the Era of New Education Policy: challenges and opportunities M.S. Pavgi Memorial Award by Dr. R. Viswanathan, Principal Scientist & Head, Division of Crop Protection ICAR-SBI, Coimbatore, Tamil Nadu Impact of yellow leaf disease in sugarcane and successful disease management to sustain crop production Plenary Lecture 1: Dr. Ravi Khetarpal, Asia-Pacific Association of Agricultural Research Institutions (APAARI), Bangkok Asia Pacific Scenario on Plant Health and Food Security Challenges	Hall 1 Chairs: Prof. Anupam Varma Prof. B.L. Jalali
12.00-13.30	Inauguration Session	Hall 1
13.30-14.15	Lunch Break	
14.15-15.00	Presidential Address by Dr. P.K. Chakrabarty, Member, ASRB, KAB, New Delhi, India	Hall 1 Chair: Dr. C.D. Mayee
15.00-17.30	Technical Session 3: Next generation pesticide and application (Biomolecules, immune boosters, nano-molecules, ICT, automization like robotic & drone)	Hall 1 Chairs: Dr. T.S. Thind Dr. Madhuban Gopal

		Rapporteurs: Dr. Srikanta Lenka Dr. Jameel Akhtar
	Keynote Lectures (01)	
	Dr. Neena Mitter , Director, Australian Research Council Industrial Transformation Research Hub for Sustainable Crop Protection, The University of Queensland, St Lucia, Australia Next generation RNA based biopesticides	
	Oral Lectures (07)	
	Dr. Vinod Singh Mehra , Corteva Agriscience, The V- Ascendas, Hyderabad, Telangana, India Zorvec® Active (Oxathiapiprolin)- A new generation chemistry for the management of Grape Downy mildew	
	Dr. Srikanta Lenka , Crop Protection Division, ICAR-NRRI Cuttack, Odisha, India Evaluating the field efficacy of new and commercially available fungicides against sheath blight of rice caused by Rhizoctonia solani Kuhn	
	Dr. Sanjeev Kumar , Department of Plant Pathology, Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh, India Comparative Efficacy of Plant extracts and fungicides for Management of Wilt of Chilli	
	Dr. Vinod Upadhyay , Regional Agricultural Research Institute (AAU), Gossaigaon, Assam, India Evaluation of fungicides in reducing disease progress and rate of infection of Phytophthora infestans in potato	
	Dr. Prakasam Vellaichamy , ICAR-Indian Institute of Rice Research, Hyderabad, Telangana, India Potentiality of new fungicide Mefentrifluconazole 400 g/l SC to curtail sheath blight and grain discoloration of paddy	
	Dr. Manoj Kumar , CCS HAU, Regional Research Station, Bawal (Rewari), Haryana, India Efficacy of different fungicides/chemicals under in vitro conditions against Rhizoctonia solani causing black scurf of potato (Solanum tuberosum)	
	Dr. Sudha M. , Division of Plant Pathology, Central Coffee Research Institute Coffee Research Station, Chikkamagaluru, Karnataka, India Bio-efficacy of promising fungicides for management of coffee leaf rust disease caused by Hemileia vastatrix B. & Br.	
15.00-17.30	Technical Session 4: Host-pathogen interaction and genomics of plant pathogens (Molecular basis of host-pathogen interaction, genome announcement, patho-genomics, functional genomics)	Hall 2 Chairs: Dr. V.G. Malathi Dr. J. Kumar Rapporteurs: Dr. Basavaraj Dr. Susheel Kumar Sharma
	Keynote Lectures (05)	
	Prof. Robert F. Park , The University of Sydney, Faculty of Science, School of Life & Environmental Sciences, Plant Breeding Institute, NSW Host-pathogen interactions in the rust pathogens of wheat and barley	

	<p>Dr. R. Sridhar, Independent Researcher, Plot No. 54, Padmavathy Street Santosh Nagar Extn. Madanandapuram, Chennai, Tamil Nadu</p> <p>Recognition and specificity: Gene-for-gene resistance and beyond</p>	
	<p>Dr. Dilip Lakshman, Sustainable Agric. Systems Lab., USDA-ARS, Beltsville, United States</p> <p>Exploring the Genomic Landscapes of <i>Rhizoctonia solani</i> and Development of RsolaniDB - a Comprehensive Omic Resource for the Soilborne Basidiomycetous Phytopathogen</p>	
	<p>Prof. Arnab Pain, Pathogen Genomics Laboratory, Biological and Environmental Sciences and Engineering (BESE) Division, KAUST, Jeddah, Saudi Arabia,</p> <p>Exploring the Genomic Landscapes of <i>Rhizoctonia solani</i> and Development of RsolaniDB - a Comprehensive Omic Resource for the Soilborne Basidiomycetous Phytopathogen</p>	
	<p>Dr. Kalyan K. Mondal, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India</p> <p><i>Xanthomonas oryzae</i> pv. <i>oryzae</i>-effectors vs rice immunity: Understanding and scope for bacterial blight management</p>	
	Invited Lectures (03)	
	<p>Dr. Bikash Mandal, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India</p> <p>Begomovirus species-specific detection by PCR</p>	
	<p>Dr. Ishwara Bhat, ICAR-Indian Institute of Spices Research, Kozhikode, Kerala, India</p> <p>Piper DNA virus 1 is an endogenous pararetrovirus integrated in chromosome 14 of black pepper (<i>Piper nigrum</i> L)</p>	
	<p>Dr. Makeshkumar T., ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, India</p> <p>Role of small RNAs in plant-virus interaction with special reference to cassava mosaic virus – cassava system</p>	
	Oral Lectures (04)	
	<p>Dr. Rahul Chavhan, V.D. College of Agricultural Biotechnology, Vasantrao Naik Marathwada Krishi Vidyapeeth, Latur, Maharashtra, India</p> <p>Candidate flowering genes expression during the battle of Pigeonpea Sterility Mosaic Virus in Pigeonpea (<i>Cajanus cajan</i>(L) Millsp.)</p>	
	<p>Dr. Susheel Kumar Sharma, ICAR Research Complex for NEH Region, Manipur Centre, Imphal</p> <p>Emerging Virus and Virus-like Pathogens Prevalent in North East Region of India: Characterization and Simplified Diagnostics</p>	
	<p>Dr. Shumaila Shahid, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</p> <p>Evaluation for host resistance in muskmelon, cucumber and bittergourd against <i>Fusarium</i> wilt disease</p>	
	<p>Dr. Sumit Jangra, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India</p> <p>Localization of tospovirus nucleocapsid protein (N) in cells of <i>Thrips palmi</i> in-vitro</p>	
	<p>Dr. Bhaskar Reddy, Division of Plant Pathology, ICAR-Indian</p>	

	Agricultural Research Institute, New Delhi, India Hybrid de novo assembly and functional annotation of rice blast-causing <i>Magnaporthe oryzae</i> reveals versatile metabolic pathways and pathogenicity factors	
	Ms. Thungri Ghoshal , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Characterization of pseudoTALEs of Indian strain of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> race 4, the bacterial blight pathogen of rice	
15.00-17.30	Technical Session 5: Diagnostics and genetic variability (Diagnostics, genetic variability, sensor based detection viz., nano-sensors, e-nose)	Hall 3 Chairs: Dr. R.K. Jain Dr. M.P. Thakur Rapporteurs: Dr. M.S. Gurjar Dr. K. Sakthivel
	Keynote Lectures (02)	
	Dr. Rashmi Aggarwal , ICAR-Indian Agricultural Research Institute, New Delhi, India Advances in Genomics and diagnostics of fungal plant pathogens and their management	
	Dr. Ramasamy Selvarajan , ICAR NRC Banana, Tiruchirapalli, Tamil Nadu, India Recent developments in plant disease diagnostics using laboratory and artificial intelligence dependant IoT methods	
	Oral Lectures (08)	
	Dr. Malkhan Singh Gurjar , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Multilocus Sequence Typing and Simple Sequence Repeats Analysis in <i>Tilletia Indica</i> Isolates Inciting Karnal Bunt of Wheat	
	Dr. Lakshman Prasad , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Morpho-molecular characterization of <i>Alternaria alternate</i> associated with the blight of Linseed	
	Dr. Meenu Gupta , Department of Vegetable Science, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh, India Association of <i>F. oxysporum</i> with basal rot of garlic and Effect of different soil temperature and moisture levels on its development	
	Dr. Gayatri Biswal , Department of Plant Pathology, Odisha University of Agriculture & Technology, Bhubaneswar, Odisha Characterization of <i>Ralstonia solanacearum</i> isolated from coastal area of Odisha infecting solanaceous crops	
	Dr. Chinnaraja Chinnadurai , The University of the West Indies, Department of Life Sciences, Faculty of Science and Technology, St Augustine, Trinidad And Tobago ZYMV-Trini: An emerging genotype of Zucchini yellow mosaic virus causing severe mosaic in cucurbits in Trinidad and Tobago	
	Dr. Sakthivel K. , Crop Protection Section, ICAR-Indian Institute of Oilseed Research, Hyderabad, Telangana, India Intra-regional population biology of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> causing bacterial blight of rice in the Andaman Islands, India: revelation by Pathotyping and Multilocus Sequence Typing (MLST)	

	Dr. Ravinder Kumar , Bemloe CPRI Shimla 171001 Himachal Pradesh, India Development of one step reverse transcriptase-recombinase polymerase amplification method for the detection of potato virus S in potato leaves and tubers	
	Dr. Anshul Arya , FASC, SGT University, Gurugram, Haryana Deciphering the Morphological and Genetical variability among the isolates of <i>Fusarium oxysporum</i> f.sp. lentis causing wilt of lentil	
15.00-17.30	e-Poster Presentation Session (Session 3, 4, 5)	Hall 4 Chairs: Dr. G.P. Rao Dr. M.S. Saharan Rapporteurs: Dr. Gireesh Chand Dr. Vinod Kumar

Day 02 (Friday, March 26, 2021)

10.00-11.30	<p>Plenary Lecture 2: Dr. Serge Savary, INRA, UMR1248 AGIR, Université Toulouse, INPT, UMR AGIR, F-31029 Toulouse, France <i>The State of Global Plant Health and the Consequences of Global Changes</i></p> <p>Sharda Lele Memorial Award by Prof. V. Devappa, Professor & Head, Department of Plant Pathology, College of Horticulture (UHS Campus), Bengaluru, Karnataka, India <i>Status of pomegranate wilt (<i>Ceratocystis fimbriata</i>) in Karnataka and its management strategies</i></p> <p>J.P. Verma Memorial Award by Dhruva Kumar Jha, Professor, Department of Botany, Gauhati University, Guwahati, Assam, India <i>Problems and Prospects of Utilization of Bacterial Endophytes for the Management of Plant Diseases</i></p>	<p>Hall 1 Chairs: Dr. S.S. Chahal Dr. D.V. Singh</p>
10.00-13.00	<p>Technical Session 2A: Eco-friendly management (Biocontrol, organic farming, conservation agriculture, biopesticide, IPM/IDM)</p>	<p>Hall 2 Chairs: Dr. A.N. Mukhopadhyay Dr. H.B. Singh Rapporteurs: Dr. Mehi Lal Dr. Amalendu Ghosh</p>
	<p>Keynote Lectures (04)</p>	
	<p>Dr. Becky Westerdahl, Extension Specialist and Professor of Nematology, Department of Entomology and Nematology, University of California, Davis, USA <i>Eco-friendly Management of Plant Parasitic Nematodes</i></p>	
	<p>Dr. Daniel P. Roberts, Research Leader, Sustainable Agricultural Systems Laboratory, USDA-ARS, USA <i>Precision agriculture and geospatial techniques for sustainable disease control</i></p>	
	<p>Dr. R.N. Pandey, Department of Plant Pathology, B.A. College of Agriculture, Anand Agricultural University, Anand, Gujarat <i>Trichoderma spp. in the management of stresses in plants, their commercialization for sustainable agriculture and rural prosperity</i></p>	
	<p>Prof. M.S. Reddy, Asian PGPR Society for Sustainable Agriculture, Department of Entomology & Plant Pathology, Auburn University, AL, USA <i>Integrated nano-based microbiome and smart agriculture for plant health management</i></p>	
	<p>Dr. Ranajit Bandyopadhyay, International Institute of Tropical Agriculture (IITA), Oyo, Nigeria <i>Research to commercialization pathway of a public</i></p>	

	biocontrol innovation: The case of aflatoxin biocontrol in Africa	
	Invited Lectures (04)	
	Dr. D.J. Patel , Nico Orgo Manures, Dakor, Dist. Kheda, Gujarat Integrated nano-based microbiome and smart agriculture for plant health management	
	Dr. Jyotsana Sharma , ICAR-National Research Centre on Pomegranate, Solapur, Maharashtra, India SIX-STEP management practices: An effective, economical and eco-friendly technology to control bacterial blight in Pomegranate	
	Dr. Mujeebur Rahman Khan , Department of Plant Protection, Aligarh Muslim University, Aligarh, Uttar Pradesh, India Important nematode problems in cereal crops and their management	
	Dr. Gururaj Sunkad , University of Agricultural Sciences, Raichur Karnataka, India Prospects of Plant Growth Promoting Microorganisms for the management of Plant Diseases under Changing Scenario	
	Oral Lectures (05)	
	Dr. Kushal Raj , Department of Plant Pathology, CCS Haryana Agricultural University, Hisar, Haryana, India Exploring biocontrol potential for management of alternaria leaf spot of aloe vera	
	Dr. Mahender Singh Yadav , ICAR-National Research Centre for Integrated Pest Management, New Delhi, India Bio-intensive strategy for sustainable management of disease in <i>Brassica juncea</i>	
	Dr. Bishnu Maya Bashyal , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Molecular programming of drought challenged <i>Trichoderma harzianum</i> bioprimered rice (<i>Oryza sativa</i> L.)	
	Dr. Veena S.S. , Division of Crop Protection, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, India Eco-conscious approaches to manage fungal diseases of aroids	
	Dr. Mehi Lal , ICAR- Central Potato Research Institute, Regional Station, Meerut, Uttar Pradesh, India Antagonistic and phosphorus solubilizing activities of native <i>Pseudomonas</i> spp. Against soil and tuber-borne diseases of potato (<i>Solanum tuberosum</i> L.)	
10.00-11.30	Technical Session 6: Plant quarantine (Agro-terrorism, regulatory rules, amendments, certification, global threat and containment, invasive pests & diseases)	Hall 3 Chairs: Dr. S.C. Dubey Dr. K.P. Singh Rapporteurs:

		Dr. Pardeep Kumar Dr. Amrita Das
	Keynote Lectures (04)	
	Dr. S.C. Dubey , Assistant Director General (Plant Protection & Biosafety), Indian Council of Agricultural Research, New Delhi, India Ensuring biosecurity through effective policy framework and stringent quarantine of plant genetic resources	
	Prof. Virendra Baranwal , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India High throughput Sequencing as diagnostics of known and novel plant viruses/viroids and its application	
	Dr. R. Velazhahan , Department of Plant Sciences, Sultan Qaboos University, Muscat, Oman Detoxification of aflatoxins: A promising approach to reduce the risk of aflatoxin contamination of foods and feeds	
	Dr. L.M. Suresh , International Maize and Wheat Improvement Center (CIMMYT), Nairobi, Kenya Maize Lethal Necrosis (MLN): Effort towards containing the spread the spread and impact of a devastating transboundary disease in sub-Saharan Africa	
	Invited Lecture (01)	
	Dr. V. Celia Chalam , Principal Scientist & Head, Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi, India International and national regulatory framework for transboundary movement and quarantine of living modified organisms	
	Oral Lecture (01)	
	Dr. Balamurugan A. , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India First report of Dickeya fangzhongdai causing bacterial soft rot disease on Dendrobium nobile in India: A New Invasive Pathogen	
11.30-13.00	Technical Session 7: Microbial biodiversity (Diversity in fungi, bacteria & viruses, systematics, edible fungi, medicinal fungi)	Hall 1 Chairs: Dr. B.N. Chakraborty Dr. L. Daiho Rapporteurs: Dr. Deeba Kamil Dr. Sanjay Goswami
	Keynote Lectures (02)	
	Dr. C. Manoharachary , Applied Mycology & Plant Pathology Lab, Department of Botany, Osmania University, Hyderabad, Telangana, India Microbial diversity in India: challenges and issues	
	Dr. Christian Joseph R. Cumagun , Adjunct Professor, Brigham Young University, Idaho, College of Agriculture	

	and Life Sciences, Department of Biology, Rexburg, ID 83460, USA <i>Aflatoxigenic potential of <i>Aspergillus flavus</i> isolates from maize in the Philippines and investigation of predators effect on aflatoxin production</i>	
	Oral Lectures (06)	
	Dr. Prabhat Kumar Shukla , Division of Crop Protection, ICAR-Central Institute for Subtropical Horticulture, Lucknow, Uttar Pradesh, India <i>Survey for associated of plant parasitic nematodes and Fusarium oxysporum with banana in Panama wilt affected areas of Uttar Pradesh, India</i>	
	Dr. Manas Bag , Crop Protection Division, ICAR- National Rice Research Institute, Cuttack, Odisha, India <i>Cultural variability, genetic diversity and population analysis of <i>Ustilaginoidea virens</i> in India</i>	
	Dr. Satish Kumar Sain , ICAR-CICR Regional Station, Sirsa, Haryana, India <i>Diversity of the rhizosphere fungal community edifice of upland cotton in North India</i>	
	Dr. Priya John , Department of Plant Pathology, N.M. College of Agriculture, NAU, Navsari, Gujarat, India <i>Identifying indigenous substrates for cultivation of <i>Pleurotus sajor-caju</i></i>	
	Dr. Deeba Kamil , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India <i>Evolutionary relationship among spatiotemporally diverse heterothallic <i>Alternaria alternata</i> isolates</i>	
	Dr. Sanjay Goswami , Crop Protection Division, ICAR- Indian Institute of Sugarcane Research, Lucknow, Uttar Pradesh, India <i>Morphological description of sugarcane wilt pathogen in sub-tropical India</i>	
12.00-13.30	Technical Session 8: Climate change impact on pests and diseases (Diversity in fungi, bacteria & viruses, systematics, edible fungi, medicinal fungi)	Hall 3 Chairs: Dr. C. Chattopadhyay Dr. S.K. Gupta Rapporteurs: Dr. Chanda Kushwaha Dr. G. Prakash
	Keynote Lectures (03)	
	Dr. Laetitia Willocquet , AGIR, INRA, Université de Toulouse, Castanet-Tolosan, France <i>Modelling yield losses from wheat rusts</i>	
	Dr. Karen A. Garrett , University of Florida, Gainesville, Florida, USA <i>Adaptation strategies for plant disease management under climate change</i>	
	Dr. Suseelendra Desai , Head (Plant Pathology), ICAR-CRIDA, Hyderabad, Telangana <i>Microbe-mediated adaptation strategies to minimize climate change impacts crops</i>	

	Oral Lectures (06)	
	Dr. P. Nallathambi , ICAR-IARI Regional Station, Wellington, Tamil Nadu, India Virulence screening of wheat powdery mildew (<i>Blumeria graminis</i> f.sp. <i>tritici</i>) pathogenic isolates from different agro-climatic regions of India	
	Dr. Gireesh Chand , College of Agriculture, Central Agricultural University, Pasighat, Arunachal Pradesh, India Prevalence of Postharvest Diseases of Khasi Mandarin Fruit in Siang Region of Arunachal Pradesh	
	Dr. Mallikarjun Kenganal , AICRP on Chickpea and Pigeonpea Zonal Agricultural Research Station, Kalaburagi, Karnataka, India Emerging threat of chickpea rust caused by <i>Uromyces ciceri</i> due to climate change	
	Dr. Krishna Kant Mishra , Crop Protection Division, ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand, India Perceptions on disease and pest status of major cultivated crops in north-western Himalayas under changing climate	
	Dr. Vinod Kumar , National Research Centre on Litchi, Muzaffarpur, Bihar, India Studies on epidemiology of leaf, panicle and fruit blights of litchi caused by <i>Alternaria alternata</i> in Bihar state, India	
	Dr. Chanda Kushwaha , Department of Plant Pathology, Bihar Agricultural University, Sabour, Bhagalpur, Bihar, India Analysing influence of temperature on virulence and incidence of blight on mustard caused by <i>Alternaria brassicicola</i>	
13.00-14.30	Lunch Break	
14.30-17.00	Technical Session 1: Plant disease resistance (Resistance breeding, MAS, virulence screening, race profiling)	Hall 1 Chairs: Dr. Rashmi Aggarwal Dr. Harbans Bariana Rapporteurs: Dr. V.K. Vikas Dr. J. Nanjundan
	Keynote Lectures (03)	
	Prof. Dr. Karl-Heinz Kogel , Institute of Phytopathology, Centre for BioSystems, Land Use and Nutrition, Justus Liebig University (iFZ), Giessen, Germany Plant protection by double-stranded RNAs, a novel biofungicide for sustainable crop protection: mechanisms and activities	
	Dr. Dilantha Fernando , Dean of Studies (St. Paul's College) & Professor, University of Manitoba, Canada Resistance breeding, MAS, virulence screening, race profiling	
	Dr. S.C. Bhardwaj , ICAR-IIWBR, Regional Station,	

	Flowerdale, Shimla, Himachal Pradesh, India Integration of resistance in wheat to counter fast evolving rusts	
	Invited Lectures (03)	
	Dr. Robin Gogoi , Division of Plant Pathology ICAR-Indian Agricultural Research Institute, New Delhi, India Unfurling maydis blight resistance in maize germplasm of India	
	Prof. Shekar Shetty , Department of Studies in Applied Botany & Biotechnology, University of Mysore, Manasagangotri, Mysore, Karnataka, India Innate immunity in plants and systemic acquired resistance for plant health – Challenges and opportunities to ensure food security	
	Dr. Mahender Singh Saharan , Division of Plant Pathology ICAR- Indian Agricultural Research Institute New Delhi, India Studies on occurrence, variability and sources of resistance for head scab of wheat in India	
	Oral Lectures (06)	
	Dr. Philomin Juliana , Wheat breeder, Global Wheat Program, CIMMYT, Mexico Enhancing genetic gain for wheat blast resistance in bread wheat using genomics	
	Dr. Neeraj Dwivedi , The Energy and Resources Institute, New Delhi Parental polymorphic survey and screening of F2 mapping population derived from a cross between Bhut Jolokia (CC0164) X IVPBC- 535 against anthracnose (fruit rot) in chilli	
	Dr. J. Nanjundan , ICAR-Indian Agricultural Research Institute, Regional Station, Wellington, Tamil Nadu, India Identification and characterization of Indian mustard accessions with novel resistance against multiple isolates of <i>Albugo candida</i> occurring at Wellington	
	Dr. Vikas VK , ICAR-Indian Agricultural Research Institute (IARI), Regional Station, Wellington, Tamil Nadu, India Marker assisted pyramiding of stem rust, leaf rust and powdery mildew resistance genes for durable resistance in wheat (<i>Triticum aestivum</i> L.)	
	Mrs. Mounika Kollam , The University of the West Indies, Department of Life Sciences, Faculty of Science and Technology, St Augustine, Trinidad and Tobago Molecular characterization of tobacco etch virus (TEV) virus infecting hot peppers (<i>Capsicum Chinense</i>) in Trinidad and Tobago	
	Mrs. Ashajyothi Mushineni , ICAR-Central Agroforestry Research Institute, Jhansi, Uttar Pradesh, India Black pepper endophytic <i>Pseudomonas putida</i> BP25 modulates defense elicitation in rice against fungal blast	
14.30-17.00	Technical Session 2B: Eco-friendly management	Hall 2

	(Biocontrol, organic farming, conservation agriculture, biopesticide, IPM/IDM)	Chairs: Dr. Prasun Mukherjee Dr. Pratibha Sharma Rapporteurs: Dr. Mukesh Kumar Khokhar Dr. Sumit Aggarwal
	Keynote Lectures (05)	
	Dr. Prasun Mukherjee , Scientific Officer G, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra	
	Dr. Jayaraj Jayaraman , Professor of Biotechnology and Plant Microbiology, Dept. of Life Sciences, The University of the West Indies, St. Augustine, Trinidad and Tobago Developing Integrated disease management systems for sustainable vegetable production in the tropics	
	Dr. D.B. Olufolaji , Department of Crop, Soil and Pest management, The Federal University Technology, Akure, Nigeria The impact of biocontrol of plant diseases on increasing food crops in Nigeria; Sub-Saharan Africa	
	Dr. Gomathinayagam Subramanian , Director, University of Guyana Guyana, South America <i>Trichoderma harzianum</i> , a multipotential organism for biological control of Plant Pathogens	
	Dr. Hesham Ali El Enshasy , Institute of Bioproduct Development, Universiti Teknologi Malaysia, Malaysia Platform Technology for Large Scale Production of Biological Control Agents for Fungal Oil Palm Diseases	
	Invited Lectures (04)	
	Dr. Lata , Principal Scientist, Division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi Mitigating environmental pollution and improving soil health using fungal resources	
	Dr. A.K. Chowdhury , Professor & Head, Department of Plant Pathology, UBKV, Coochbehar, West Bengal Disease dynamics and associated soil health parameters in rice wheat cropping systems under conservation agriculture	
	Dr. Savarni Tripathi , ICAR-Indian Agricultural Research Institute, Regional Station, Pune, Maharashtra, India Viral disease scenario in solanaceous vegetable crops in western Maharashtra and developing effective management strategies	
	Oral Lectures (06)	
	Dr. Amalendu Ghosh , Advanced Centre for Plant Virology, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Controlling the transmission of chilli leaf curl virus by exogenous application of dsRNA targeting hsp70 gene of	

	its vector, <i>Bemisia tabaci</i>	
	Dr. Mukesh Kumar Khokhar , ICAR-National Research Centre for Integrated Pest Management, New Delhi, India Impact of IPM intervention on inoculum density and disease development relationship between pathogen and antagonistic microbials in transplanted and direct seeded Rice	
	Dr. R. Thava Prakasa Pandian , ICAR-Central Plantation Crops Research Institute Regional Station, Vittal, Karnataka, India Identification of an effective isolate of <i>Trichoderma asperellum</i> AT172 for the management of arecanut basal stem rot disease	
	Dr. Rekha Balodi , ICAR-National Research Centre for Integrated Pest Management, New Delhi, India Monitoring of native <i>Trichoderma</i> species population in tomato field	
	Dr. Sumit Kumar Aggarwal , ICAR-Indian Institute of Maize Research PAU Campus Ludhiana, Punjab, India Adoption of modules for Management of Banded Leaf & Sheath Blight of Maize in India	
	Ms. Shivani Gupta , Department of Plant Pathology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh, India Status of <i>Cercospora</i> (<i>Cercospora taeticola</i> Fresen.) leaf spot of marigold in Himachal Pradesh and its novel management strategies	
14.30-17.00	Technical Session 9: Impact of COVID -19 on Indian agriculture (Delivery system, export -import hindrance, labour crisis, production systems) Technical Session 10: Stakeholders meet on plant protection issues (Industry, academia, government, farmers interface)	Hall 3 Chairman: Dr. M.K. Naik Dr. P. Chowdappa Rapporteurs: Dr. Susanta Banik Dr. N. Srinivasa
	Keynote Lectures (01)	
	Dr. Pratibha Sharma , Division of Plant Pathology, SKN Agricultural University, Jobner-Jaipur, Rajasthan Plant clinic diagnosis worldwide and amateurs plant doctors versus phytiatry doctors	
	Invited Lecture (01)	
	Shri R.G. Agarwal , Group Chairman, Dhanuka Agritech Limited, 14th Floor, Cyber City, DLF Ph:-III, Gurgaon, Haryana Transfer of new pesticides technology	
	Oral Lectures (02)	
	Dr. Mallikarjun Kenganal , AICRP on Chickpea and Pigeonpea Zonal Agricultural Research Station, Kalaburagi, Karnataka, India Consumer producer Co-opted linkage through e-resources for farm solutions and marketing of produces	

	during COVID-19 pandemic	
	Dr. Sai Ratna Sharavani Channapurapu , Department of Floriculture and Landscape Architecture, Dr. Y.S.R. Horticultural University, Venkataramannagudem, West Godavari, Andhra Pradesh, India Impact of COVID-19 on Indian floriculture industry	
10.00-11.30	e-Poster Presentation Session (Session 2 S2(01-50))	Hall 4 Chairs: Dr. Dinesh Singh Dr. R.M. Gade Rapporteurs: Dr. Ravindra Kumar Dr. Rahul Chavan
14.30-17.00	e-Poster Presentation Session (Session 1, 2(S251-72), 6)	Hall 4 Chairs: Dr. Dinesh Singh Dr. R.M. Gade Rapporteurs: Dr. Ravindra Kumar Dr. Rahul Chavan

Day 03 (Saturday, March 27, 2021)

10.00-11.00	J.F. Dastur Memorial Award by Dr. Kajal Kumar Biswas , Principal Scientist, Division of Plant Pathology ICAR-Indian Agricultural Research Institute, New Delhi <i>Understanding of sleeping giant-virus in citrus and cotton: perspective to economic losses in India and a challenge to battle</i>	Hall 1 Chairs: Dr. S.M. Paul Khurana Dr. C. Manoharachary
	S. Sinha Memorial Award by Dr. Pramod Kumar Gupta , Scientist, JNKVV, Jabalpur, Madhya Pradesh <i>Current status of Cercosporoid fungi in India, effective management strategies and future directions</i>	
11.00-13.00	MJN Academic Award Contest (16)	Hall 2 Chairs: Dr. R. Selvarajan Dr. A.K. Chowdhury
	Ms. Kakumoni Saikia , Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam <i>Antibiotic exuding Rhizospheric Streptomyces for biological management of Xanthomonas oryzae pv. oryzae in rice</i>	North-Eastern Zone
	Ms. Arti Kumari , School of Crop protection, CPGSAS, Central Agricultural University (Imphal), Umiam, Meghalaya <i>Synthesis and characterization of biogenic silver nanoparticles: its assessment as antipathogenic activity against Rhizoctonia solani and Xanthomonas oryzae pv. oryzae and toxicity on beneficial microbes and mammalian cells</i>	North-Eastern Zone
	Dr. Darshan K. , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India <i>Transcriptomic analysis of Chaetomium globosum Kunze. for bioprospection of antagonistic related gene(s)</i>	Delhi Zone
	Dr. Sajad Un Nabi , ICAR-Central Institute of Temperate Horticulture, Srinagar, Jammu & Kashmir, India <i>Comparative Virome analysis in mosaic infected and asymptomatic apple cultivars using RNA sequencing: development of multiplex RT-PCR and evaluation of rootstocks for sensitivity to mosaic disease</i>	Delhi Zone
	Mr. Debayan Mondal , Department of Biochemistry, Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal, India <i>Enzyme kinetics and gene expression analysis reveals differential response of aromatic rice landraces from sub-Himalayan Terai region of India to rice blast disease</i>	Eastern Zone
	Ms. Mehulee Sarkar , Advanced Centre for Plant Virology, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi <i>Suppressor activity analysis of Tomato leaf curl New Delhi virus gene(s) and development of RNAi construct to evaluate their efficacy in inhibiting the virus</i>	Eastern Zone

	Dr. Scindiya Mohandoss , ICAR-Sugarcane Breeding Institute, Coimbatore, Tamil Nadu, India Molecular characterization and functional analysis of pathogenicity related genes in <i>Colletotrichum falcatum</i> causing red rot in sugarcane	Southern Zone
	Dr. Amoghavarsha Chittaragi , Department of Plant Pathology, University of Agricultural and Horticultural Sciences, Shivamogga, Shivamogga, Karnataka, India Characterization and virulence profiling of <i>Magnaporthe oryzae</i> isolates from diverse rice ecosystems of Karnataka	Southern Zone
	Mr. Rathod Parashuram , Department of Plant Pathology, Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh, India Exploring Potential <i>Pseudomonas</i> for Plant Growth Promoting traits and invitro Suppression of Charcoal Rot in Soybean (<i>Glycine max</i> (L.) Merrill)	Central Zone
	Dr. Chaithanya B.H. , Regional Agricultural Research Station (ANGRAU), Nandyal, Andhra Pradesh, India Development of DNA based screening method for Yellow Mosaic Virus infecting Black gram and studies on vector (<i>Bemisia tabaci</i>) biotypes in Andhra Pradesh	Central Zone
	Dr. Tanveer Fatima , Aligarh Muslim University, Aligarh, Uttar Pradesh Effect of elevated levels of CO ₂ on the development powdery mildew in cucumber species	Mid-Eastern Zone
	Ms. Ruchi Srivastava , ICAR- National Bureau of Agriculturally Important Microorganism, Kushmaur, Mau, Uttar Pradesh Secretome analysis reveals effector candidates associated with broad host range necrotrophy in <i>Fusarium udum</i>	Mid-Eastern Zone
	Mr. R.S. Lad , Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra Seasonal effects on population dynamics of <i>Phytophthora</i> spp. and disease development in mandarin	Western Zone
	Mr. R.C. Agale , Department of Plant Pathology, VNMKV, Parbhani, Maharashtra Variability among <i>Rhizoctonia bataticola</i> isolates, causing dy root rot of soybean and its management	Western Zone
	Ms. Ayesha Nabi , Division of Plant Pathology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Jammu & Kashmir Optimizing the <i>Agrobacterium tumefaciens</i> -mediated transformation conditions in <i>Colletotrichum lindemuthianum</i> for uncovering the functionality of pathogenicity arsenals	Northern Zone
	Ms. Jashanpreet Kaur , Department of Plant Pathology, Punjab Agricultural University, Ludhiana, Punjab Characterization and mapping of Spot blotch in <i>Triticum durum</i> - <i>Aegilopes speltoides</i> introgression lines using	Northern Zone

	genotyping by sequencing	
11.00-13.00	APS Travel Grant Award Contest (05)	Hall 1 Chairs: Dr. R.N. Pandey Dr. A.K. Misra
	Mr. Jagmohan Singh , Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi, India Deciphering the <i>Chaetomium globosum</i> induced signaling network in tomato against early bight	Delhi Zone
	Mr. Gowtham Kumar Routhu , Assam Agricultural University, Jorhat Jorhat, Assam, India Post transcriptional gene silencing using Coat protein gene specific dsRNA molecules against cognate Cucumber mosaic virus (CMV) infecting Bhut jolokia crop of Assam	North-Eastern Zone
	Sumaih Wani , Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar J&K Status and molecular characterization of potato virus Y strains in Kashmir valley	Northern Zone
	Ms. Sabiha Sayeed , Department of Plant Protection, Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh, Uttar Pradesh Efficacy of plant extracts against <i>Mungbean Yellow Mosaic India Virus</i> (MYMIV) in urdbean (<i>Vigna mungo</i> L.)	Mid-Eastern Zone
	Mr. Vaibhav Pratap Singh , Department of Plant Protection, Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh, Uttar Pradesh Effect of temperature and pH on mycelial growth and sporulation of <i>Alternaria brassicae</i> (Berk.) Sacc. causing Alternaria blight of rapeseed-mustard	Mid-Eastern Zone
10.00-13.00	e-Poster Presentation Session (Session 7, 8, 9)	Hall 3 Chairs: Dr. Naresh Mehta Dr. D.B. Parakh Rapporteurs: Dr. Bishnu Maya Bashyal Dr. Sanjeev Kumar
13.00-14.00	Lunch Break	
14.00-17.00	Annual General Body Meeting of the Society	Hall 1
	Valedictory Session	Hall 1

INDIAN PHYTOPATHOLOGICAL SOCIETY
National e-Conference
Plant Health and Food Security: Challenges and Opportunities
March 25-27, 2021
 ICAR-IARI Pusa Campus, New Delhi, India (Virtual Mode)

Conference weblink: <http://joinconference.ipsdis.org/>

e-POSTERS PRESENTATION SESSION

Day 01 (Thursday, March 25, 2021)	
15.00- 17.30	<p>Technical Session 3: Next generation pesticide and application (Biomolecules, immune boosters, nano-molecules, ICT, automization like robotic & drone) Poster No. PP(S3)/01-07</p> <p>Technical Session 4: Host-pathogen interaction and genomics of plant pathogens (Molecular basis of host-pathogen interaction, genome announcement, patho-genomics, functional genomics) Poster No. PP(S4)/01-18</p> <p>Technical Session 5: Diagnostics and genetic variability (Diagnostics, genetic variability, sensor based detection viz., nano-sensors, e-nose) Poster No. PP(S5)/01-18</p> <p>Chairs: Dr. G.P. Rao, Dr. M.S. Saharan Rapporteurs: Dr. Gireesh Chand, Vinod Kumar</p>
Day 02 (Friday, March 26, 2021)	
10.00-11.30	<p>Technical Session 2: Eco-friendly management (Biocontrol, organic farming, conservation agriculture, biopesticide, IPM/IDM) Poster No. PP(S2)/01-50</p> <p>Chairs: Dr. A.I. Bhat, Dr. Usha Chakraborty Rapporteurs: Dr. Meenu Gupta, Dr. Pramod Kumar Gupta</p>
14.30-17.00	<p>Technical Session 1: Plant disease resistance (Resistance breeding, MAS, virulence screening, race profiling) Poster No. PP(S1)/01-28</p> <p>Technical Session 2: Eco-friendly management (Biocontrol, organic farming, conservation agriculture, biopesticide, IPM/IDM) Poster No. PP(S2)/51-71</p> <p>Technical Session 6: Plant quarantine (Agro-terrorism, regulatory rules, amendments, certification, global threat and containment, invasive pests & diseases) Poster No. PP(S6)/01</p> <p>Chairs: Dr. Dinesh Singh, Dr. R.M. Gade Rapporteurs: Dr. Ravindra Kumar, Dr. Rahul Chavan</p>

Day 03 (Saturday, March 27, 2021)

10.00-13.00

Technical Session 7: Microbial biodiversity

(Diversity in fungi, bacteria & viruses, systematics, edible fungi, medicinal fungi)

Poster No. PP(S7)/01-23

Technical Session 8: Climate change impact on pests and diseases

(Diversity in fungi, bacteria & viruses, systematics, edible fungi, medicinal fungi)

Poster No. PP(S8)/01-09

Technical Session 9: Impact of COVID -19 on Indian agriculture

(Delivery system, export-import hindrance, labour crisis, production systems)

Poster No. PP(S9)/01

Chairs: Dr. Naresh Mehta, Dr.D.B. Parakh

Rapporteurs: Dr. Bishnu Maya Bashyal, Dr. Sanjeev Kumar