



National Conference on Plant Microbes Interaction for Sustainable Agriculture and Food Security

IPS Mid-Eastern Zone (MEZ) Meet

January 3-4, 2025

Technical Programme



Organized by
Rani Lakshmi Bai Central Agricultural University, Jhansi
Bundelkhand University, Jhansi
Indian Phytopathological Society, New Delhi

Venue : Rani Lakshmi Bai Central Agricultural University, Jhansi



National Conference and Zonal Meet of IPS-MEZ
PlantMicrobes Interaction for Sustainable Agriculture and
Food Security
3-4 January, 2025



Program Schedule

January 3, 2025		
9.30-10.30	Registration	
10.00-12.35	<i>Inaugural Session</i>	
Venue: Board Room, Administrative Building, RLBCAU, Jhansi		
10.00-10.05	Garlanding, Lamp lightening & Tribute to Rani Lakshmi Bai Ji Floral Welcome of dignitaries	All dignitaries
10.05-10.10	Welcome Address	Dr. P.P. Jambhulkar, President, IPS-MEZ
10.10-10.15	Address by Secretary, IPS	Dr. Kajal Kumar Biswas, Principal Scientist, IARI, New Delhi
10.15-10.20	Address of President Elect, IPS	Dr. Dinesh Singh, Head Plant Protection, ICAR-IISR, Lucknow
10.20-10.25	Address by Guest of Honour	Dr. Poonam Jasrotia, ADG (PP&B), ICAR New Delhi
10.25-10.30	Address by Guest of Honour	Dr. P. K. Chakrabarty, Former Member, ASRB, New Delhi
10.30-10.38	Address by Guest of Honour	Dr. C. D. Mayee, Former Chairman, ASRB, New Delhi
10.38-10.46	Address by Guest of Honour	Dr. A. N. Mukhopadhyay, Former Vice Chancellor AAU, Jorhat, Assam
10.46-10.54	Address by Special Guest	Dr. Mukesh Pandey, Vice Chancellor BU, Jhansi and BUAT, Banda
10.54-11.02	Address by Vice Chancellor	Dr. Ashok Kumar Singh, Vice Chancellor, RLBCAU, Jhansi
11.02-11.15	Inaugural Address by Chairman	Dr. Panjab Singh, Chancellor, RLBCAU, Jhansi
11.15-11.20	Felicitation of Veteran Plant Pathologists	
11.20-11.30	Vote of Thanks	Dr. Rajesh Kumar Pandey, Councillor, IPS-MEZ
11.30-11.33	National anthem	
11.33-11.45	High Tea	
11.45-12.40	Dr. U. S. Singh Memorial Lecture	
	Chair	Dr. Panjab Singh, Chancellor RLBCAU, Jhansi
	Co-Chair	Dr. A.K. Singh, Vice Chancellor RLBCAU

	Convenor	Dr. Anil Kumar, Director Education, RLBCAU
11.45-11.50	Tribute to Garlanding Portrait of Dr. U. S. Singh	
11.50-11.55	Memoir of Dr. U. S. Singh	Dr. R. P. Singh, Professor, GBPUAT, Pantnagar
11.55- 12.25	Special Memorial Lecture: as a tribute to Dr. U.S. Singh	Dr. A.N. Mukhopadhyay, Former Vice Chancellor, AAU, Jorhat
12.25-12.30	Felicitation of Dr A. N. Mukhopadhyay by Citation	
12.30-12.40	Remark of Chairman	Dr. Panjab Singh, Chancellor RLBCAU, Jhansi
12.40-13.25	Plenary Lecture 1	
	Chair	Dr. Panjab Singh, Chancellor RLBCAU, Jhansi
	Co-Chair	Dr. Pranjib Chakrabarti, Former Member, ASRB, New Delhi
	Convenor	Dr. S. K. Chaturvedi, Director Research
	Rapporteur	Dr. Birinchi Sarma, Professor, BHU, Varanasi and Dr. Chandramani Raj, Scientist, IISR, Lucknow
12.40-13.20	Dr. C. D. Mayee, Former Chairman, ASRB, New Delhi	Novel Approaches of Research to Meet the Wider Challenges of Crop Protection from Diseases
13.20-13.25	Remark of Chairman	Dr. Panjab Singh, Chancellor RLBCAU, Jhansi
13.25-13.30	Vote of thanks	Dr. S. K. Chaturvedi, Director Research
13.30-13.35	Group Photo in front of academic building	
13.35-14.15	Lunch Break	

14.15-18.15	Concurrent Technical Session 1: Microbial biodiversity and taxonomy		
	Venue: 234, Seminar Hall, College of Agriculture		
	Chair	Dr. Poonam Jasrotia, ADG (PP&B), ICAR-New Delhi	
	Co-chair	Dr. Om Gupta, Former Director Extension JNKVV, Jabalpur	
	Convener	Dr. Mohd. Akram, Head (Plant Protection)- IIPR Kanpur	
	Rapporteur	Dr. Sanjay Goswami and Dr. Pavithra B. S	
14.15-14.35	Keynote Lecture 1	Dr. Dinesh Singh, Head, Plant Protection ICAR-IISR, Lucknow	Characterization and Identification of <i>Dickeya</i> spp. Causing Bacterial Stalk Rot of Maize by Polyphasic Approaches
14.35-14.50	Lead Lecture 1	Dr. Jitender Singh, Head, Department of Microbiology, CCS University, Meerut	Unveiling the Viral Diversity in Indian Garlic Cultivation: A Comprehensive Genomic Study using High-Throughput Sequencing
14.50-15.05	Lead Lecture 2	Dr. Diwakar Bahukhandi, Rtd. Principal Scientist (Plant Pathology), IARI, New Delhi	Description and Classification of the Zygomycetous Fungi
15.05-15.20	Lead Lecture 3	Dr. Nazia Manzar, Scientist (Sr. scale), NBAIM	Exploring the Diversity of <i>Bipolaris maydis</i> and its Transcriptomic Insights in Indian Maize

15.20-15.30	Tea Break		
15.30-18.00	Oral Presentations		
	OP(1)-3077	Study of Nematophagous fungi against <i>Meloidogyne incognita</i> and <i>Rhizoctonia solani</i> infecting Mungbean (<i>Vigna radiata</i> L. Wilczek) to assess the nematophagous and mycoparasitic potential	Sakshi Pandey* and Dharmendra Kumar
	OP(2)-3112	Wild mushrooms: The fungal treasure in Chhindwara	Durga Thakur* , Chandan Singh and Deepak Vyas
	OP(3)-3136	Biochemical changes in different cultivars of mungbean in response to <i>Colletotrichum lindemuthianum</i> infection	Sunita Choudhary* , R.K. Bagri, R.S. Sharma, Bhavya Mishra, Pinki Devi Yadav and Pooja Yadav
	OP(4)-3167	Understanding the relationship of bacterial diversity and soil health: A case study on two soils with contrasting nutrient status	Shiv Charan Kumar* , ShalooVerma, ShobitThapa, Murugan Kumar, Alok Kumar Srivastava and HillolChakdar
	OP(5)-3247	Influence of soil properties on bacterial population structure- Cues for developing soil health indicators	ShalooVerma* , Murugan Kumar, Pramod Kumar Sahu, HillolChakdar, Anil Kumar Saxena, Alok Kumar Srivastava
	OP(6)-3085	Diversity and taxonomy of phytopathogeniccladosporiumonMoraceae	H.D. Bhartiya* and Data Deen
	OP(7)-3205	Functional potential of cultivable <i>Bacillus</i> and derived genera isolated from Pachmarhi Biosphere Reserve, India	Pushpendra Tiwari, Srijan Saurav* , Kokila V., HillolChakdar and Kumar M.
	OP(8)-3206	Diversity of <i>Streptomyces</i> spp. inhabiting Pachmarhi Biosphere Reserve, India	PushpendraTiwari* , WaquarAkhter Ansari, Shiv Charan Kumar, HillolChakdar and Kumar
	OP(9)-2986	Microbial advancements in dark fermentative bio-hydrogen production: applications and innovations	D.M. Tripathi* and Smriti Tripathi
	OP(10)-3240	Impact of pasteurization techniques on the growth and yield of the oyster mushroom (<i>Pleurotus pulmonarius</i>)	RautRavindraSunderrao* , Suresh Kumar Sahu and C.S. Shukla
18.00-18.10	Concluding Remarks of the Session by the Chair		
18.10-18.15	Vote of Thanks	Dr. Mohd. Akram, Head (Plant Protection)- IIPR Kanpur	
18.15-18.30	High Tea		
18.30	Cultural Program followed by Dinner		
14.15-18.15	Concurrent Technical Session 2: Plant disease diagnostics, host-pathogen interaction and host plant resistance		
	Venue: 233, Seminar Hall, College of Horticulture		
	Chair	Dr. R. Viswanathan, Director, ICAR-Indian Institute of	

		Sugarcane Research, Lucknow	
	Co-Chair	Dr. K.P. Singh, Head (Plant Pathology), GBPUAT, Pantnagar	
	Convener	Dr. Prabhat Kumar Shukla, Principal Scientist (Plant Pathology) CISH, Lucknow	
	Rapporteurs	Dr. Anita Puyam, RLBCAU and Dr. J.K. Babele, BU	
14.15-14.35	Keynote Lecture 1	Dr. R. Viswanathan, Director, ICAR-Indian Institute of Sugarcane Research, Lucknow	Sustainable management of red rot in sugarcane through host resistance and omic tools
14.35-14.55	Keynote Lecture 2	Dr. Rakesh Pandey, Prof. Emeritus AcSIR&CSIR-Emeritus Scientist, CSIR-CIMAP Lucknow	Tactical employment of microbes for phytonematode management and enhancing plant secondary metabolites in medicinal and aromatic plants
14.55-15.10	Lead Lecture 1	Dr. Birinchi Sarma, Professor, Plant Pathology, IAS, BHU, Varanasi	Chickpea responses to salt stress and Fusarium wilt simultaneously through selected transcription factors expression
15.10-15.25	Lead Lecture 2	Dr. Rakesh Kumar Singh, Head Plant Pathology, RVSKVV, College of Agriculture, Indore	Unravelling the Molecular Basis of Anthracnose Resistance in Soybean: Identification of Key Candidate Genes
15.25-18.00	Oral Presentations		
	OP(1)-2869	Comparative evaluation of antagonistic potential and plant growth promoting traits of <i>Trichoderma</i> spp. in groundnut (<i>Arachis hypogaea</i> L.) against stem rot pathogen <i>Sclerotium rolfsii</i> Sacc.	Raja M. ^{1,3*} , Rakesh Kumar Sharma ¹ , Prashant P. Jambhulkar ² and Pratibha Sharma ³
	OP(2)-3107	Bioactive Compounds from Medicinal Plant Endophytes: A Pathway to Eco-Friendly Disease Management	Vidushi Suryavanshi* , Kapil Khulbe, Himani Verma and Prabha Parki
	OP(3)-3103	Emerging Begomovirus and Betasatellite Complexes: Molecular Evidence from Papaya Leaf Curl Disease in Indian provinces	Priyanka Varun ¹ , Priyanka ² , Yusuf Akhter ² and Sangeeta Saxena ²
	OP(4)-3083	Recombinase polymerase amplification (RPA) a better technique for Plant Pathogen detection than any other isothermal method	Abhinav Tiwari* , Damini Diksha, Jayesh Gehlot and Mailem Y.S.
	OP(5)-3242	Classification of sugarcane insect pest injury symptoms using artificial intelligence	Chandramani Raj* , Shweta Singh, Rajesh U. Modi, Arun Baitha, S.S. Hasan, D.N. Borase and R. Viswanathan

	OP(6)-3243	Survey of Aerial Blight of Soybean in Different Geographical Location of Chhattisgarh	Suresh Kumar Sahu* , RautRavindraSunderrao and Ashwarya L. Tandon
	OP(7)-3257	Molecular Analysis of Disease-Responsive Genes Revealing the Resistance Potential Against Fusarium Wilt (<i>Fusariumudum</i> Butler) Dependent on Genotypic Variability in Pigeonpea	Raj K. Mishra* , Sonika Pandey, Abhisek Tiwari and Shailesh Dixit
	OP(8)-3253	Validation of molecular markers for marker assisted selection of white rust resistance in Indian Mustard (<i>Brassica juncea</i> L.)	Rakesh Choudhary* , A.D.S.S. Ajay Nikhil, BhawnaTiwari, KadamKiran, Shubha Trivedi, ToijamBidyaxmi Devi, PP Jambhulkar and S.K. Chaturvedi
	OP (9)-3275	Mechanisms of Biological Control for Plant Pathogens	Dinesh Panwar , Jitender Singh
	OP(10)-3349	AI-based Disease Identification in Groundnut Crop	Tanuj Misra* , Shailendra Kumar, P. P. Jambhulkar, Shubha Trivedi, Sanjeev Kumar
18.00-18.10	Concluding Remarks of the Session by the Chairman		
18.10-18.15	Vote of Thanks	Dr. Prabhat Kumar Shukla, Principal Scientist (Plant Pathology) CISH, Lucknow	
18.15-18.30	High Tea		
18.30	Cultural Program followed by Dinner		
14.15-18.15	Concurrent Technical Session 3: Harnessing Plant Microbiome to understand pathogenesis		
	Venue: 525, Seminar Hall, College of Horticulture		
	Chair	Dr. Pranjib Chakrabarty, Former Chairman ASRB, New Delhi	
	Co-Chair	Dr. Krishna Kumar, Principal Scientist (Plant Pathology), IIPR Kanpur	
	Convener	Dr. Mehilal, Sr. Scientist, ICAR-CPRI (RS), Modipuram	
	Rapporteurs	Dr. Manish Dubey, PAU, Ludhiana and Dr. Shubha Trivedi, Scientist RLBCAU and	
14.15-14.35	Keynote Lecture 1	NGS for characterization of plant viruses: An Indian perspective	Dr. V. K. Baranwal, National Professor, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, Pusa, New Delhi
14.35-14.55	Keynote Lecture 2	Microbial Elicitors: Harnessing Their Potential for Crop Health Management	Dr. Aundy Kumar, Principal Scientist Division of Plant Pathology, ICAR-IARI New Delhi
14.55-15.10	Lead Lecture 1	Multi-stress tolerant antagonist bacteria against fungi and nematodes	Dr. Surender Singh, Professor Microbiology, Central University, Mahendragarh

15.10-15.25	Lead Lecture 2	Dr. Abhijeet Kashyap, Scientist (Sr. scale), NBAIM	Unravelling the Wheat Leaf Blight Pathobiome: Integrative Multi-Omics and Molecular Perspectives on Host-Microbe-Interactions
15.25-15.40	Tea Break		
15.40-18.00	Oral Presentations		
	OP(1)-2858	Antagonistic Endophytic Bacteria for Sustainable Disease Management in Chickpea	Likhita J. ¹ , Manisha ¹ , Yashowardhan Singh ¹ , Anshuman Singh ² and Meenakshi Arya ^{1*}
	OP(2)-3265	Wilt Disease Mitigation in Linseed: A Study of Field Management and Germplasm Resistance	Yashowardhan Singh ¹ , Jayant Bhatt ¹ , Sanjay Kharte ¹ , Swarna Kurmi ¹ , Pramod Gupta ¹ , Dr Meenakshi Arya ² and Sandhya Sinha ³
	OP(3)-3265	Utilizing endophytic fungi for the biocontrol and enhancement of growth potential concerning pea root rot complex in Himachal Pradesh, India.	Kavita Kushwaha , Joginder Pal, Gaurav Katoch, Devinder K. Banyal, and Surinder Paul
	OP(4):3318	QTL mapping for late leaf spot disease resistance in groundnut (Arachis hypogaea L.)	Shailja Chauhan ^{1,2} , D. L. Savithramma ¹
18.00-18.10	Concluding Remarks of the Session by the Chairman		
18.10-18.15	Vote of Thanks	Dr. Mehilal, Sr. Scientist, ICAR-CPRI (RS), Modipuram	
18.15-18.30	High Tea		
18.30	Cultural Program followed by Dinner		
January 4, 2025			
9.30-10.00	Plenary Lecture 2		Venue: Board Room
	Chair	Dr. A.N. Mukhopadhyay, Former Vice Chancellor, AAU, Jorhat, Assam	
	Co-Chair	Dr. R. K. Singh, Dean, CoA, RLBCAU, Jhansi	
	Convener	Dr. R. P. Singh, Professor, Plant Pathology, GBPUAT, Pantnagar	
	Rapporteur	Dr. H.D. Bhartiya, BBC, Jhansi and Dr. Nazia Manzar, NBAIM, Mau	
9.30-9.35	Welcome of Guests		
9.35-9.55	Dr. Pranjib Chakrabarty	Crop Grouping: A stepping-stone to harmonize off-label use of Pesticides	
9.55-10.00	Remark of Chairman	Dr. A.N. Mukhopadhyay, Former Vice Chancellor, AAU, Jorhat, Assam	
10.00-10.05	Felicitation and Vote of thanks		
10.15-13.15	Technical Session 4: Novel formulation and smart delivery system of microbial antagonists		
	Venue: 525, Seminar Hall, College of Horticulture & Forestry		
	Chair	Dr. Rakesh Pandey, Prof. Emeritus CSIR-CIMAP Lucknow	

	Co-Chair	Dr. RamjiLal, Rtd. Principal Scientist, IISR, Lucknow	
	Convener	Dr. Rishi Saxena, Professor, Microbiology, BU, Jhansi	
	Rapporteurs	Dr. R. K. Mishra, ICAR-IIPR, Kanpur and Dr. Devendra Mani Tripathi, BU, Jhansi	
1015-10.35	Keynote Lecture 1	Microbial pesticides for managing plant diseases: Current status and future prospects	Dr. H.B. Singh , Rtd. Professor Plant Pathology, BHU
10.35-10.55	Keynote Lecture 2	Upcoming trend of microbial consortium application in crop management for organic and natural farming system	Dr. Pratibha Sharma , Rtd. Principal Scientist, IARI
10.55-11.10	Lead Lecture 1	Sustainable materials platform for targeted delivery of microbial: Agriculture and public health prospects	Dr. Smriti Kala , Scientist (Formulation), Division Institute of Pesticide Formulation Technology, Gurugram
11.10-11.30	Tea break		
11.30-13.00	Oral Presentations		
	OP(1)-3101	Biocontrol of <i>Sclerotinia sclerotiorum</i> on field pea using novel bioformulation of Trichoderma isolates	Ziaul Haque* , Lavi Haidar and Sarwar Nawaz
	OP(2)-3046	Bio-control potential of nematode-trapping fungi forming different tapping structures against some plant-parasitic nematodes	Nilesh Kumar Sahani* and Dharmendra Kumar
	OP(3)-3262	Antibacterial Activity and Water Purification Potential of Moringa oleifera Seed Extracts	Shahnaz Bano* , Shweta Jaiswal, Ganga Gupta and Amit Kumar Tiwari
	OP(4)-3289	Management of sheath blight of rice using microbial formulations under <i>in vivo</i> condition	Pramod Kumar Gupta* , YogitaGharde and Revendra Kushwaha
13.00-13.10	Concluding Remarks of the Session by the Chairman		
13.10-13.15	Vote of Thanks	Dr. Rishi Saxena, Professor, Microbiology, BU, Jhansi	
13.15-14.00	Lunch		
10.05-13.15	Technical Session 5: Emerging approaches in plant disease management		
	Venue: 233, Seminar Hall, College of Horticulture		
	Chair	Dr. V. K. Baranwal, National Professor, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, Pusa, New Delhi	
	Co-Chair	Dr. Dinesh Singh,, Head Plant Protection, ICAR-IISR, Lucknow	
	Convener	Dr. Jitender Singh, Head, Department of Microbiology, CCS University, Meerut	
	Rapporteur	Dr. ShahnashiHashmi, BU, Jhansi and Dr. Smriti Mall, Gorakhpur	
10.05-10.25	Keynote Lecture 1	Dr. K. P. Singh, Head Plant Pathology, GBPUAT, Pantnagar	Decision making tools for integrated disease

			management
10.25-10.45	Keynote Lecture 2	Dr. Mohd. Akram , Head Plant Protection, IIPR, Kanpur	Insights on Yellow Mosaic Disease in Pulse Crops
10.45-11.00	Lead Lecture 1	Dr. Prabhat Kumar Shukla , ICAR- CISH Lucknow	Challenges in mango wilt disease management
11.00-11.15	Lead Lecture 2	Dr. R. P. Singh , Professor, Plant Pathology, GBPUAT, Pantnagar	Bespoke microbiome therapy for eco-friendly management of Banded leaf and sheath Blight of Maize
11.15-11.30	Lead Lecture 3	Dr. D. P. Singh , Rtd. Principal Scientist, DWR Karnal	Emerging approaches in plant disease management
11.30-11.40	Tea Break		
11.40-13.00	Oral Presentations		
	OP(1)-3130	Genomic advances and management of wilt in Pigeonpea caused by <i>Fusarium udum</i>	Kumar Aditya* , Neha Sharma and Birinchi Kumar Sarma
	OP(2)-3136	Antifungal efficacy of essential oils against anthracnose (<i>Colletotrichum lindemuthianum</i>) of mungbean	Sunita Choudhary* , R.K. Bagri, R.S. Sharma, Pinki Devi Yadav and Pooja Yadav
	OP(3)-3166	Management of Web Blight of Mungbean [<i>Vigna radiata</i> (L.) Wilczek.] caused by <i>Rhizoctonia solani</i> Kuhn	Pinki Devi Yadav* , R.S. Sharma and Sunita Choudhary
	OP(4)-3134	Biological control of root-rot disease in Mungbean by <i>Trichoderma</i> spp.	Noor Fatima* , Rose Rizvi and Muskan Parveen
	OP(5)-3150	Development of tank-mixed spray schedules for management of late blight disease and insects in potato crops	Mehi Lal¹* , Sanjeev Sharma ² , Subhash S. ¹ and R.K. Singh ¹
	OP(6)-3156	Botanical approaches for the sustainable management of phytoplasma diseases in India	Smriti Mall*
	OP(7)-3020	Role of CRISPR-Cas9 technology in plant disease management	Karnika Sharma* , Siddharth Singh and Jahnvi Gupta
	OP(8)-3244	Using of different organic amendments and bio-agent against <i>Sclerotium rolfsii</i> causing collar rot disease of Chickpea	Kamlesh Ram* and Ramesh Singh
	OP (9)-3244	Survey of <i>Sclerotinia</i> stem rot of rapeseed-mustard in northern region of Madhya Pradesh	Sonu Sharma* and R.K. Pandya
	OP (10)-3244	Growth improvement and <i>Antifungal Activity of Endophyte Chaetomium globosum</i> Strain CGSR-20 Against Important Sugarcane Fungal Pathogens	Sanjay Kumar Goswami
13.00-13.10	Concluding Remarks of the Session by the Chairman		
13.10-13.15	Vote of	Dr. Jitender Singh, Head, Department of Microbiology, CCS University, Meerut	

	Thanks	
13.15-14.00	Lunch	
10.05-13.00	Technical Session 6: Academia-Industry Interaction	
	Venue: Committee Hall, Mushroom Unit	
	Chair	Dr. Pratibha Sharma, Rtd. Professor, Plant Pathology, IARI, New Delhi
	Convenor	Dr. Meenakshi Arya, Scientist (Plant Pathology), RLBCAU, Jhansi
	Rapporteur	Dr. Pavithra B.S.
10.05-10.25	Lead Lecture	Dr. Ranganatha M. C. Lead -New Product Introduction, Indofil Industries Ltd
10.25-10.45	Lead Lecture	Dr Sanjeev Kumar, Associate Professor, JNKVV, Jabalpur
10.45-11.00	Lead Lecture	Dr. R.K. Dhuria, Dy. General Manager, (Marketing) DhanukaAgritech
11.00-11.15	Tea Break	
11.15-13.00	Oral Presentations	
13.00-14.00	Lunch	
10.05-13.00	Concurrent Session	Prof M. J. Narasimhan Merit Award Contest and APS Travel Sponsorship Contest
	Venue: 234, Seminar Hall, College of Agriculture	
	Chair	Dr. R. Viswanathan, Director, ICAR-IISR, Lucknow
	Jury 1	Dr. Kajal Biswas, Principal Scientist, IARI, New Delhi
	Jury 2	Dr. R.K. Mishra, Principal Scientist, IIPR, Kanpur
	Jury 3	Dr. Surender Singh, Professor Microbiology, Central University, Mahendragarh
	Convenor	Dr. Smriti Kala, IPFT, Gurugram
10.05-13.00	Presentations by students	M.Sc. and PhD students
	MJN(158)-3089	Exploring the dynamics of pod rot disease in Black gram [<i>Vigna mungo</i> (L.) Hepper]: Understanding disease-pod bug interaction and sustainable disease management
		Rajshree Verma* and Kailash Pati Singh Kushwaha
	MJN(159)-3074	Morpho-molecular characterization of <i>Alternaria</i> species causing leaf blight in mustard
		Chetan Chopra¹* , Shubha Trevedi ¹ , P. P. Jambhulkar ¹ , Rakesh Choudhary ² , Anita Puyam ¹ and Usha ³
	MJN(160)-3094	Eco-Friendly Biofumigation: Harnessing brassica tissues and mustard cake for effective management of soilborne fungal pathogens
		Shashank P. Patel* , P.P. Jambhulkar, Shubha Trivedi and Priyanka Varun
	MJN(161)-3080	Harnessing <i>Bacillus</i> spp. for Groundnut Resilience: Enzymatic Fortification and Yield Enhancement
		Rohini^{1,2}* , Anita Puyam ² , P.P. Jambhulkar ² and Shubha Trivedi ²

13.00-13.10	Concluding Remarks of the Session by the Chairman	
13.10-13.15	Vote of Thanks	
13.15-14.00	Lunch	
14.00-16.30	Valedictory Session	
14.00-14.05	Welcome of Guest	Dr. Rajesh Kumar Pandey, Councillor, IPS-MEZ
14.05-14.30	Rapporteurs Report from each session	Rapporteurs of different session
14.30-14.35	Remark by Secretary, IPS	Dr. Kajal Kumar Biswas, Principal Scientist, IARI, New Delhi
14.35-14.40	Remark of President Elect, IPS	Dr. Dinesh Singh, Head Plant Protection, ICAR-IISR, Lucknow
14.40-14.50	Remark by Guest of Honour	Dr. Poonam Jasrotia, ADG (PP&B), ICAR, New Delhi
14.50-15.00	Remark by Guest of Honour	Dr. P. K. Chakrabarti, Former Member, ASRB, New Delhi
15.00-15.10	Remark by Special Guest	Dr. Mukesh Pandey, Vice Chancellor BU, Jhansi and BUAT, Banda
15.10-15.20	Remarks by Vice Chancellor	Dr. Ashok Kumar Singh, Vice Chancellor RLBCAU, Jhansi
15.20-15.40	Address of the Chief Guest	Dr. T. R. Sharma, DDG, Crop Science, ICAR, New Delhi
15.40-16.00	Declaration of various awards and Certificate distribution	
16.00-16.20	Remark by Chairman	Dr. Panjab Singh, Chancellor, RLBCAU, Jhansi
16.20-16.25	Vote of Thanks	Dr. P.P. Jambhulkar, President, IPS-MEZ
16.25-16.30	National Anthem	
16.30-17.00	Field and Lab Visit	
Posters Session		
Day 1: 3 January Poster Session: Theme: 4-6		
Time: 14.00-16.00		
Day 2: 4 January Poster Session: Theme: 1-3		
Time: 11.00-13.00		

Posters Session

Session 1

(4 January at 11.00AM-13.00PM)

Theme-1. Microbial biodiversity and taxonomy		
Poster ID	Title	Authors
PP(1)-3088	Sustainable oyster mushroom cultivation in Longding District, Arunachal Pradesh: A pathway to socioeconomic development	Deep Narayan Mishra* , U.K. Bhattacharyya, A. Kirankumar Singh, Vikas, B. Srishailam and Amit Kumar
PP(2)-3093	Survey detection and identification of bacterial diseases of potato (<i>Solanum tuberosum</i> L.) of Meerut District	Ankit Kumar Chaurasia1* , Ramesh Singh ² , Shivanshu Mishra ² and Shashank Shekhar ²
PP(3)-3098	Emerging Begomoviruses of Bundelkhand: Molecular characterization of whitefly transmitted Leaf Curl Disease of Tomato	Landa Rohith Sai Naveen* , Pavithra B.S., Prashant P. Jambhulkar and Meenakshi Arya
PP(4)-3096	Effect of salinity in six genotypes of <i>Avena sativa</i> during germination and seedling growth	Niti Kushwaha1* , Shiva Singh ¹ , Somya Goswami ¹ , Sharat Srivastava and Harsh Kumar Garg
PP(5)-3115	A comprehensive review on microalgal chromium detoxification in tannery wastewater: Paving the way for biobased products	UrvashiSoni* , VandanaSirotiya and VandanaVinayak
PP(6)-3128	Evaluation of chickpea germplasm for dry root rot reaction and yield attributing characters	Anupriya* , TejpalBajaya, R.P. Ghasolia and S.L. Yadav
PP(7)-3091	A comprehensive review on diversity of <i>Calocybe</i> species	Ankita Jain* and PoonamDehariya
PP(8)-3045	Morphological and molecular characterization of Alternaria leaf blight infecting sunflower	Aditya Abhijeet Guha, S. Harish* and V. Sendhilvel
PP(9)-3169	Partial purification and characterization of exopolysaccharide from bacteria	PallaviChattopadhyay, Hillol Chakdar* and Alok K Srivastava*
PP(10)-3187	Evaluation and genetic characterization of chickpea rhizobial strains for enhanced nodulation and nitrogen fixation	Kokila V.*, Shiv Charan K., Hillol C., Kumar M. and A.K. Saxena
PP(11)-3170	Fresh water zooplankton diversity in Mahi pond, Jalaun, U.P., India	Shreyasi Niranjan* , Rashmi Singh, Akanksha Singh and Sasya Nagar
PP(12)-3247	Prospecting bacterial endophytes for biofortification of iron and zinc in Maize (<i>Zea mays</i>)	ShalooVerma* , Murugan Kumar, Pramod Kumar Sahu, HillolChakdar, Anil Kumar Saxena and Alok Kumar Srivastava
PP(13)-3138	Evaluation of variability and in vitro nematophagous potential of Nematode-trapping fungi <i>D. brochopaga</i> against root-knot nematode (<i>Meloidogyne incognita</i>)	EpsitaTiwari* and Dharmendra Kumar
PP(14)-3207	Functional and genomic analyses of Proteus terrae 105- a multi stress tolerant plant growth promoting bacteria	Jagriti Yadav, Anchal Kumar Srivastava, Pramod Kumar Sahu, Kumar M.,

		HillolChakdar* and AlokKumar Srivastava1*
PP(15)-3211	Structural and functional diversity analysis of microbes obtained from the soils of Western Ghats of Tamil Nadu	Manikandan Murugesan* , V. Mageshwaran, AnupriyaYadav, Arvinth S. and Rajendran R.
PP(16)-3215	Intercontinental AMF diversity analysis in wheat agro-systems: Effect of soil quality on plant-microbe interactions	Aanchal Singh, Anshita Singh and Anand Kumar Pandey*
PP(17)-3216	Cyanobacterial bioactive metabolites and its biocontrol potential	Ritu Vishwakarma ¹ , Nancy Gupta ^{1,2} , JyotiPrakash Singh ¹ , Hillol Chakdar ¹ , Shobit Thapa^{1*} and Alok Kumar Srivastava ¹
PP(19)-3218	Isolation and characterization of potential nutrient solubilizing bacteria from arid regions of Rajasthan	Rashmi Pandey ^{1,2} , Jyoti Prakash Singh^{1*} , Shobit Thapa ¹ , Ritu Vishwakarma ¹ , Rajesh K. Tiwari ² and Alok K. Srivastava ¹
PP(20)-3120	Evaluation of locally available substrates for growth and yield of <i>Pleurotus</i> spp.	Sweta Sahu1* , H.S. Negi ² and Rishi Nath Pandey ²
PP(21)-3224	Effect of different cereal flour and different straw and their combination on sporophore yield of (<i>Calocybeindica</i>)	Arvind Yadav* , Vivek Singh, Harshita Yadav, Jitendra Kumar and Sweta Sahu
PP(22)-3240	Role of spawning rate in improving growth and yield of oyster mushroom <i>Pleurotuspulmonarius</i>	RautRavindraSunderrao* , Suresh Kumar Sahu and C.S. Shukla
PP(23)-3243	Effect of different pH and temperature on mycelial and sclerotial characters of <i>Rhizoctonia solani</i>	Suresh Kumar Sahu* , RautRavindraSunderrao and Ashwarya L. Tandon
PP(24)-3246	Variability in <i>Phytophthoradrechslerif. sp. cajani</i> causing Stem blight of pigeonpea (<i>Cajanuscajan</i>) in North and Central India	PragatiNema, SonikaPandey, Shailesh Dixit, Utkarsh Upadhyay and R.K. Mishra*
PP(25)-3256	Morphological and Molecular Characterization of <i>Fusarium oxysporum</i> f. sp. <i>pisi</i> isolates causing Pea wilt in the Bundelkhand Region	Renu¹ , Kajol ¹ , Likhita J., Yashowardhan Singh ¹ , B.B. Sharma, Anshuman Singh ³ and Meenakshi Arya ^{1*}
PP(26)-3167	Genetic Diversity and Distribution of Chickpea-Nodulating Rhizobia in the Indo-Gangetic Plains of India	Shiv Charan Kumar, Murugan Kumar, Rajni Singh1* and Anil Kumar Saxena2*
PP(27)-3270	Fresh water zooplankton diversity in Mahil Pond, Jalaun, U.P., India	Shreyasi Niranjana*, Rashmi Singh ² and Sasya Nagar ¹
PP(28)-3289	Viability in Sclerotia of <i>Rhizoctoniasolani</i> I Kuhn. of Rice at Various Soil Condition	Pramod Kumar Gupta*, YogitaGharde and Revendra Kushwaha

Theme-2

Plant disease diagnostics, host-pathogen interaction and host plant resistance (4 January at 11.00AM-13.00PM)

PP(1)-3251	Impact of Weather Parameters on development of blight disease complexes in pigeon pea	UtkarshUpadhyay, SonikaPandey, PragatiNema, Shailesh Dixit, Ishank Singh and R.K. Mishra*
PP(2)-2881	Identification and Characterization of Potato Virus Y from India using SRA data	Sakshi* , EktaChhikara, Aarti Thakur and Jitender Singh
PP(3)-3075	plant disease diagnostics, host-pathogen interaction,	Rahul Singh Raghuvanshi*

	and host plant resistance	and Nidhi Singh
PP(4)-3087	Survey detection and identification of viral diseases of tomato (<i>Solanumlycopersicum</i> L.) of Meerut district	Shivanshu Mishra* , Ramesh Singh, Ankit Kumar Chaurasia and Shashank Shekhar
PP(5)-2857	Impact of Epidemiology on understanding the disease dynamics and improving the plant disease management	Anjali Tiwari*
PP(6)-3139	Molecular Characterization of Soybean Genotypes with Varying Responses to Anthracnose Disease	Rakesh Kumar Singh* , Pooja Dhaka, Pawan Saini, R.K. Singh, Giriraj Kumawat, Milind B. Ratnaparkhe, V. Nataraj, Rishiraj Raghuvanshi, Sanjay Gupta, Shivakumar M. and Sanjeev Kumar
PP(7)-2940	Prevalence of Blast Disease in Expanding Foxtail Millet Cultivation: A Survey from Vijayapura District, Karnataka	Premchand U.* , Shivashankar Murthy, Prakash G., Heena M.S., Prasad M.G. and Balaji Naik D.
PP(8)-2940	Impact of Sugarcane Whitefly Infestation and SCYLV Spread in Vijayapura's Key Sugarcane Regions	Premchand U.* , Shivashankar Murthy, Heena M.S., Prakash G., Prasad M.G. and Balaji Naik D.
PP(9)-3057	Collection and Study of Plant Diseases in Diverse Agro-Climatic Zones of Uttar Pradesh	Anand Milan¹* , Pradip Kumar ¹ , Abhishek Katiyar ¹ , Shyam Narayan Patel ¹ , Mandeep Singh ¹ and Dinesh Chandra ²
PP(10)-3099	Molecular techniques in detection and diagnosis of Phytoplasma	Shashank Shekhar¹* , Ramesh Singh ¹ , Shivanshu Mishra ¹ , Vaishnavi Singh ¹ and Akshat Sharma ²
PP(11)-2756	Identification of the fungal pathogen causing leaf blight in Asalio (<i>Lepidium sativum</i> L.) and Its Management Strategies	Abhishek Katiyar* , Anand Milan, Mandeep Singh, Shyam Narayan Patel and Himendra Raj Raghuvanshi
PP(12)-2964	Prevalence of the disease severity of Cercospora leaf spot of mungbean [<i>Vignaradiata</i> (L.)Wilezek] in Bundelkhand region of Uttar Pradesh	Rohit Kumar* , H.S. Negi, Pradeep Kumar Verma, Nilesh Kumar Sahani and Anjali Verma
PP(13)-3140	Screening of different varieties/germplasm against <i>Alternaria</i> blight of cumin caused by <i>Alternariaburnsii</i>	KiranKumawat* and PokharRawal
PP(14)-3159	Enemies of mushrooms and their protection	Shraddha Patel* and Deepak Vyas
PP(15)-3131	Integrative Approaches to Plant Disease Diagnosis and Host-Pathogen Dynamics for Sustainable Crop Management	Anita Kumari Pandey¹* , Kartikey Pandey ² and Neha Tomar ¹
PP(16)-3212	In-silico analysis to enhance the potential of symbiont fungal chitinase of <i>Beauveriabassiana</i> to develop high-potential biopesticide	Shruti Gupta ¹ , Hemant Kumar ² and Anand Kumar Pandey¹*
PP(17)-3217	Infecion process during fungal-pathogen interaction in phytos	Mandeep Singh* , Subhash Chandra, Shwetank Singh, AbhishekKatiyar and Aanand

		Kumar Milan
PP(18)-3219	Molecular Docking Analysis of Plant-Pathogen Proteins <i>Brassica oleracea</i> and <i>Pseudomonas syringae</i> for development of Crop protection and disease resistance	Soniya Bhargav*
PP(19)-3225	Effect of temperature on growth and sporulation of <i>Colletotrichum capsici</i> causal pathogen of leaf spot of Turmeric (<i>Curcuma longa</i> L.)	Mily Anjaly Vaidyaraj* and Gazala Rizvi
PP(20)-3237	Role of phenolic compounds in resistance against <i>Fusarium oxysporum</i> f.sp. <i>lentis</i> the incitant of wilt disease in lentil	Vaibhav Singh^{1*} and K.P.S. Kushwaha ²
PP(21)-3250	Screening of Mung bean Germplasms against Root-Knot Nematode, <i>Meloidogyne javanica</i> to Find Out the Source of Resistance	Seema Yadav^{1*} , S.P. Bishnoi ² , Hemraj Gurjar ² , Parwati ¹ and B.S. Chandrawat ³
PP(22)-3034	Appraisal of Cherry tomato genotypes against Leaf curl virus and root-knot nematode under simulated epiphytotic condition	Salesh Kumar Jindal, Sayeed A H Patel, Abhishek Sharma, Sukhjeet Kaur and Manisha Dubey*
PP(23)-3277	Advancing Mango Disease Diagnosis: Integrating Traditional Methods and Modern Innovations for Sustainable Crop Management	Manasa Bodakuntla^{1*} , Bodakuntla Manasa ¹ and Srikanth Thippani ²
PP(24)-3277	Innovative Breeding Techniques for Enhancing Biotic Stress Tolerance in Mango	Bodakuntla Manasa^{1*} and Srikanth Thippani ²
PP(25)-3291	Impact of Tikka Disease (<i>Cercospora arachidicola</i>) on Groundnut (<i>Arachis hypogaea</i>) in the Bundelkhand Region	Nandini Rajpoot* , Prinsi Upadhyay, Sheetu Yadav and Priya Tawar
PP (26)-3341	Exploiting host plant resistance as most viable option for disease management in crop plants	Pooja Shukla* , Arpit Suryavanshi, Anil k. Rai, Meenakshi Arya and S.K. Chaturvedi
PP(27)-3319	Evaluation of urdbean (<i>Vigna mungo</i> L. Hepper) genotypes for mungbean yellow mosaic virus resistance/tolerance through phenotypic reactions	Mitali Tiwari¹ , Anshuman Singh ¹ , Rakesh Choudhary ¹ , Rumana Khan ¹ , Meenakshi Arya ² , Ashutosh Singh ³ , Jitendra Kumar Tiwari ¹ and S.K. Chaturvedi ¹

Theme-3
Harnessing Plant Microbiome to understand pathogenesis
(4 January at 11.00AM-13.00PM)

PP(1)-3207	Functional and genomic analyses of Proteus terrae 105- a multi stress tolerant plant growth promoting bacteria	Jagruti Yadav* , Anchal Kumar Srivastava, Pramod Kumar Sahu, Kumar M., Hillol Chakdar and Alok Kumar Srivastava
PP(2)-3213	Effect of fertilizer inputs on soil quality and development of Antimicrobial resistance: A metagenome data analysis	Anshita Singh , Anchal Singh and Anand Kumar Pandey*
PP(3)-3285	Isolation and characterization of rhizospheric microbes for management of red rot disease in sugarcane	Prakash Chandra Tripathy* , Dinesh Singh, Sanjay Kumar Goswami, Rahul Kumar Tiwari, Sanjeev Kumar, Sanjeev Kumar and Mansi Mishra
PP(4)-3299	Effect of temperature & relative humidity on sporulation and spore germination on <i>Alternaria</i>	¹ Neelam Soni , ² Jayant Bhatt, ¹ Rajni Singh

	<i>solani</i> incident of early blight of tomato	Sasode, ³ Himanshu Sekhar Singh and ¹ Anita Kumari Pandey
PP(5)-3308	Endophytic bacteria from orchids- A future towards the sustainable agriculture	Virendra Singh Tekam and Subha Narayan Das
<p>Session 2 (3 January at 14.00-16.00 Hrs)</p> <p>Theme 4 Novel formulation and smart delivery system of microbial antagonists</p>		
PP(1)-3035	Microbial Analysis of Herbal Based Raw Materials and Formulations	Vishakha Sharma ^{1*} , Hemant Soni ² and Pavithra B.S. ¹
PP(2)-3095	Soilborne Pathogens with native <i>Trichoderma</i> of South-Eastern part of Rajasthan	Nishtha Meena *, D.L. Yadav, Chirag Gautam, Vinod Kumar Yadav, S.L. Yadav and C.B. Meena
PP(3)-3053	Evaluation of novel fungicide chemistries to reduce <i>Cercospora</i> leaf spot in green gram	Manisha Khichar ^{1*} , Shailesh Godika ¹ and Harshdeep Singh ²
PP(4)-3097	Synthesis and Characterization of Zinc Oxide Nanoparticles Using <i>Arthrobotrysoligospora</i> for Effective Management of Rice Pathogens	Nitesh Meena *, Vedant Gautam and R.K. Singh
PP(5)-3160	Biofortification of Soybean by Mushroom-Derived Nanoparticles	Aayushi Jain * and PoonamDehariya
PP(6)-3086	Evaluation of cowpea rhizosphere fungal antagonists against major soil-borne plant pathogens	Akash Yadav ¹ , Srinivasan R ¹ , Venkatesh Y.N. ¹ , Ashajyothi, M. ¹ , Sakshi Bhagwat ¹
PP(7)-3209	Nanophotosensitizer Mediated Control of Bacterial Survival to Target Host- Pathogen Interaction	Laxmi Kurmi ^{1*} , Lavkesh Kumar ² , Pushpal Ghosh ² and Yogesh Bhargava ^{1*}
PP(8)-3120	Evaluation of different grains substrates for spawn production of oyster mushroom (<i>Pleurotus</i> spp.)	Sweta Sahu ^{1*} , H.S. Negi ² and Rishi Nath Pandey ²
PP(9)-3241	Biological approach for the management of root knot nematode, <i>Meloidogyne incognita</i> in Brinjal through AM fungus and Biocontrol agents	Rajni Sen *and Rajesh Kumar Pandey
PP(10)-3248	Volatile secondary metabolites emitted by <i>Trichoderma</i> spp. boost the plant growth-promoting (PGP) capabilities in chickpea	Shailesh Dixit *, SonikaPandey, UtkarshUpadhyay, PragatiNema and R.K. Mishra
PP(11)-3268	Effect of different types of mulching material in integration with components of natural farming to improve beneficial microbes and suppress the harmful pathogens infecting Chickpea	Ashish Kumar Tiwari ^{1*} and B.K. Pandey ²
PP(12)-3292	Entomopathogenic fungi used against insect pest and also used as biological control to manage pest population	SheetuYadav *, Nandini Rajput, PriyaTawar and Vaishnavi
PP(13)-3292	Bacillus Nano Solutions for Crop Protection	KurruCharitha

PP(13a) 3245	Efficacy of botanical extracts on early blight disease (<i>Alternaria solani</i>) in tomato (<i>Solanum lycopersicum</i> L.)	Kajol Kumari and Abhilasha A. Lal
Theme 5 (3 January at 14.00-16.00 Hrs) Emerging approaches in plant disease management		
PP(1)-2769	Emerging approaches in plant disease management	Dinesh Chand ^{1*} and Anand Milan ²
PP(2)-2785	Effective approach to mitigating Rhizome rot in Ginger: An emerging challenges in Ayodhya region	SatwantYadav [*] , Pradip Kumar, Ram Surat Sharma and Sweta Sahu
PP(3)-2755	Effect of bioagent and nanomaterials on mycelial growth of <i>Fusariumoxysporumf.sp.lentis</i>	Uma Shankar Rajput ^{1*} , SubhashChandra ¹ , Kartikey Pandey ² , Munni Kumari ³ andJashanpreet Singh ⁴
PP(4)-3100	Utilizing the Potential of <i>Cordyceps</i> Mushroom Metabolites for Plant Disease Management	Vaishnavi Singh [*] , Gopal Singh, Shashank Shekhar, Shivanshu Mishra
PP(5)-3034	Effect of botanicals on growth, yield and biochemical parameters of <i>Gladiolus grandiflorus</i> L. and incidence of Fusarium wilt	R.K. Dubey [*] ,Monika Patel, Premjit Singh and Manisha Dubey
PP(6)-3094	Biofumigation Potential of <i>Brassica</i> Tissues and Mustard Cake for Sustainable Management of Soilborne Pathogens	Shashank P. Patel [*] , P.P. Jambhulkar, Shubha Trivedi and Priyanka Varun
PP(7)-3057	Optimizing disease management through mulching: evaluating the impact of various substrates	Anand Milan ^{1*} ,Pradip Kumar ¹ , Abhishek Katiyar ¹ , Dinesh Chandra ² , Shyam Narayan Patel ¹ and Mandeep Singh ¹
PP(8)-3031	<i>In vitro</i> evaluation of bioagents against <i>Fusarium udum</i> causing wilt of pigeonpea	YashiChauhan [*] andSanjeev Kumar
PP(9)-3080	Enhanced Biocontrol and physiological parameters with <i>Bacillus</i> spp.: Boosting defense Enzymes and Yield in Groundnut	Rohini ^{1,2*} , Anita Puyam ² , P.P. Jambhulkar ² and Shubha Trivedi ²
PP(10)-2819	Efficacy of Fungicides, Botanicals, and Bio-agents against <i>Colletotrichum capsici</i> in Chilli under <i>In-Vitro</i> Conditions	Ankita Bharti ^{1*} , S.N. Rahul ¹ , Jitendra Kumar ¹ , Ram Surat Sharma ¹ and Rishi Sharma ²
PP(11)-3044	Natural Defense: Exploring Antifungal compounds from Biocontrol Agents to Combat Spinach Diseases	Uditi U. Raval [*] and Sanjay S. Ingle
PP(12)-3042	Effect of different BIDM modules on management of Rice blast disease and its impact on yield of Basmati paddy	Himendra Raj Raghuvanshi ^{1*} , S.K. Biswas ¹ , Gajendra Pratap ¹ , Utkarsh Upadhyay ¹ and Abhishek Katiyar ²

PP(13)-2756	Evaluation of the efficacy of various fungicides for managing <i>Fusarium oxysporum</i> f. sp. <i>lini</i> Induced Wilt in Linseed (<i>Linum usitatissimum</i> L.)	Abhishek Katiyar ^{1*} , Narendra Sachan ¹ , Mandeep Singh ¹ , Himendra Raj Raghuvanshi ¹ , Anand Milan ² and Shyam Narayan Patel ²
PP(14)-3157	Utilizing biochar for plant disease management in sustainable agriculture	Alka Mankani [*] , Chandan Singh and Deepak Vyas
PP(15)-3106	Compatibility of <i>Trichoderma harzianum</i> with novel fungicides and their efficacy against <i>Fusarium oxysporum</i> f. sp. <i>pisi</i> in field pea	Ram Prakash Rai ¹ , Sunil Kumar ^{2*} and Anmol Chaurasiya ¹
PP(16)-2758	Ecofriendly management of leaf spot of Bael incitant by <i>Fusarium pallidoroseum</i> under <i>in vitro</i> conditions	Ram Surat Sharma ^{1,2*} , Hemant Kumar Singh ² and Rahul Sagar ²
PP(17)-3076	Inhibitory effect of plant extracts and bio agents against <i>Sclerotinia sclerotiorum</i> inciting stem rot (white mold) of brinjal	Ajay Kumar ^{1*} , Ramesh Singh ² , Dharmendra Kumar ¹ and Amit Kumar Yadav ¹
PP(18)-2858	Screening of rice germplasm accessions against sheath blight pathogen	Likhita J [*] , Raji P,
PP(19)-3151	Spent mushroom compost: A potential agent to control the fusarium wilt of tomato	Kamlesh Mehara [*] , Chandan Singh and Deepak Vyas
PP(20)-2825	Optimized strategies for managing aonla rust and enhancing yield potential	Jitendra Kumar [*] , H.K. Singh, Ram Surat Sharma, Ankita Bharti and Uma Shankar Rajput
PP(21)-3183	Effect on storage condition on spoilage behaviour of Dragon Fruit	Alan Evon Singh [*] , Azaj Ansari, GhanShyamAbrol, Ranjit Pal, Arjun Lal Ola, Gaurav Sharma, Manish Shrivastav
PP(22)-3146	Sustainable model for plant disease management: an ICT approach	Sanjeev Kumar [*] , S. Patil, Shailendra Kumar, Arpit Suryawanshi, Tanuj Misra and S. S. Singh
PP(23)-3161	Benefits of spent mushroom compost in soybean (<i>Glycine max</i>)	Pooja Lodhi [*] and Deepak Vyas
PP(24)-3164	Evaluation of new generation fungicides against of <i>Fusarium oxysporum</i> f. sp. <i>ciceris</i> under <i>in vitro</i> condition	Mamta Beniwal [*] and N.L. Meena
PP(25)-3166	Management of Web blight of mungbean through organic amendments	Pinki Devi Yadav [*] , R.S. Sharma and Sunita Choudhary
PP(26)-3165	Studies on Eco-friendly management of false Smut in basmati rice	Anand Tripathi [*] , Ramji Singh, Gaurav Ayodhya Singh and Siddhant Kr. Pundir
PP(27)-3204	Effect of botanicals on management of root-knot nematode (<i>Meloidogyne javanica</i>) in cumin	Parwati [*] and B.S. Chandrawat
PP(28)-3121	Biological control of dry root rot of Pea caused by <i>Rhizoctonia solani</i>	Priya Kumari [*] , Ramesh Singh, Anand Kumar Prajapati and Md. Sarwar Ali
PP(29)-3152	Effect of botanicals on growth, yield and biochemical parameters of <i>Gladiolus grandiflorus</i> L. and incidence of Fusarium wilt	Monika Patel, R.K. Dubey [*] and Premjit Singh and Manisha Dubey

PP(30)-3208	Bio-control efficacy of bacterial endophyte(s) against wilt complex in chickpea	V. Mageshwaran*, Shikha Singh , Anupriya Yadav, H.V. Singh and Alok K. Srivastava
PP(31)-3217	An Emerging Disease Wheat Blast: A Threat to Food Security- A Review	Mandeep Singh *,Subhash Chandra, Abhishek Katiyar and Aanand Kumar Milan
PP(32)-3220	Integrating GIS and Remote Sensing for Plant Disease Identification and Management: A Spatial Approach	Jahnvi Gupta *, Karnika Sharma and Siddharth Singh
PP(33)-3196	Morpho-molecular insights and biocontrol strategies for managing sugarcane smut disease	Kirtika Swaraj *,Prakash Chandra Tripathy, Ranjit Singh Gujjar, Sanjay Kumar Goswami, Dinesh Singh and Rahul Kumar Tiwari
PP(34)-2765	Sustainable Approaches for Managing Root-Knot Nematodes in Winged Bean (<i>Psophocarpustetragonolobus</i>) Cultivation	Mukesh Rawat *, Ramesh Chand, Ram Surat Sharma and Shyam Narayan Patel
PP(35)-3135	Green nanotechnology: A sustainable approach in plant disease management	Muskan Parveen *, Noor Fatima and Rose Rizvi
PP(36)-3222	Cultural management of Stem gall of Coriander through different Soil amendments	Anand Kumar Prajapati *, Ramesh Singh, Gaurav and Rohit Kumar
PP(37)-3223	Evaluation of different fungicides against the Curvularia leaf spot of Brinjal	Rohit Kumar *, Ramesh Singh, Anand Kumar Prajapati and Gaurav
PP(38)-3229	Management of Alternaria leaf spot of Bael (<i>Aeglemarmelos</i> L.) through weather parameters, screening of cultivars and efficacy of fungicides	Hemant Kumar Singh *, Jitendra Kumar and Shubham Patel
PP(39)-3155	Studies on inhibitory effect of different fungicides on purple blotch of onion caused by <i>Alternariaporri</i> under <i>In Vitro</i> condition	Md Sarwar Ali *,Ramesh Singh, Shubham Singh and Priya Kumari
PP(40)-3052	A study on the effect of soil and air-borne inoculum and climatic factors in primary and secondary spread of red rot pathotype CF13 in the variety Co 0238	Shreyanshu *, Mansi Mishra, Shweta Singh, Chandramani Raj and R. Viswanathan
PP(41)-3250	Screening of Mung bean Germplasms against Root-Knot Nematode, <i>Meloidogynejavanica</i> to Find Out the Source of Resistance	Seema Yadav ¹ *, S.P. Bishnoi ² , Hemraj Gurjar ² , Parwati ¹ and B.S. Chandrawat ³
PP(42)-3153	Biocontrol potential of <i>Bacillus licheniformis</i> against anthracnose of soybean caused by <i>Colletotrichumtruncatum</i>	Manisha Dev *, Vidya Dev and K.P. Singh
PP(43)-3154	Exploiting the Potential of <i>Bacillus paralicheniformis</i> against Rhizoctonia aerial blight disease of soybean	Vidya Dev *, Manisha Dev and K.P. Singh
PP(44)-3293	Integrated management of Fusarium wilt of Rajmash (<i>Phaseolus vulgaris</i> L.) caused by <i>Fusariumoxysporum</i> f.sp. <i>ciceri</i> with botanical extract and fungicides	Nayan Singh *,Ramesh Singh, Anand Kumar Prajapati, Gaurav and Rohit Kumar

PP(45)-3284	Rewriting sugarcane Genes: Genome Editing for Improved Disease Resistance	Mansi Mishra* , Shweta Singh, Chandramani Raj, Dinesh Singh, Arunima Mahto, Rita, Prakash Chandra Tripathy and Shreyanshu
PP(46)-3276	Survey and management of <i>Sclerotiumrolfsii</i> causing collar rot of chickpea	PriyaTawar* , Vivek Singh, Arvind Kumar, SheetuYadav and Nandini Rajput
PP(47)-3236	<i>Streptomyces caeruleatus</i> : A novel biocontrol agent for managing rice blast disease and enhancing rice yield	Sucharita Mohapatra^{1,2*} , S.R. Prabhukarthikeyan ¹ , Gayatri Biswal ² , SoumyaShephalika Dash ¹ , U. Keerthana ¹ and S.D. Mohapatra ¹
PP(48)-3298	<i>In vitro</i> management of Ascochyta blight of chickpea (<i>Cicerarietinum</i> L) caused by <i>Ascochytabieii</i>	Devansh Singh , Ramesh Singh, Shubham Singh and AnandKumar Prajapati
PP(49)-3281	Addressing the impact of Collar rot disease of Chickpea in India: Current status and future strategies	Ishank Singh , Sanjoyg Chettri, Raj Kumar Mishra, Yogesh Kumar and Rajesh Kumar Pandey

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