

## **Proceedings of 68<sup>th</sup> Annual General Body Meeting and International Conference on “Plant, Pathogens and People” held at NASC Complex, New Delhi during February 23-27, 2016**

It is indeed my proud privilege to welcome all the members and Executive Council of the Society, who have shown their keen interest in the affairs of the Society to come over to attend this conference.

### **1. Confirmation of the minutes of Mid-Term EC Meeting held on June 27, 2015 at IARI, New Delhi**

1. Dr. A.K. Misra proposed to increase the endowment amount of Rs. 2.30 Lakh (Rs. Two Lakh Thirty thousand only) for A.P. Misra Life-time Achievement Award with request to increase the frequency of the award from Biennial to Annual. The EC agreed on the proposal.
2. In view of decreasing submission rate of manuscripts, it was approved by the EC that membership fee will not compulsorily charge from the authors for publication of their manuscripts. However, the processing fee will be different for member and non-member author.
3. Enhancement of Staff Salary

The increase in salary of IPS Secretariat were discussed and EC agreed for the increment.

	<b>Existing salary (Rs.) /month</b>	<b>Revised salary (Rs.) /month</b>
Business Manager	25,000.00	29,000.00
Editorial Assistant	10,000.00	12,000.00
Office Assistant	7,000.00	9,000.00
<b>Total (monthly)</b>	<b>42,000.00</b>	<b>50,000.00</b>

I am happy to inform the house that the journal Indian Phytopathology is up-to-date. March issue of the journal is in process of publication. The contents with abstract is available online. Efforts are being made to get better rating and boost image of the journal nationally and internationally.

### **AWARDS**

**Open nomination for Memorial Lecture Awards the Society:** From 2015, the open nomination and EC nomination system has been started by the Society and the details available on IPS website.

The EC discussed and recommended the names for following Awards:

1. A.P. Misra Lifetime Achievement Award: Dr. B.B. Nagaich
2. IPS Recognition Award : Dr. V. Muniyappa, Bineeta Sen
3. S.P. Raychaudhury Memorial Lecture : Dr. V.L. Chopra/Dr. Mangala Rai

### **Declaration of awards**

The EC felt that the recommendations made by the Screening Committee needs to be reviewed, hence no formal announcement could be made for declaration of the award. A committee of the following members namely, Drs. R.K. Khetarpal, A.K. Misra, P. Chowdappa, A.P. Suryawanshi and I.M. Sharma will scrutinize the recommendations and finalize the award result.

However, the following names were approved for the FPSI (Fellow of Indian Phytopathological Society)

1. **Dr. P.K. Chakrabarty**, ADG (Plant Protection & Biosafety), ICAR, New Delhi
2. **Dr. Bikash Mandal**, Principal Scientist, Division of Plant Pathology, IARI, New Delhi
3. **Dr. Krishna Kumar**, Head, Crop Protection Division, IIPR, Kanpur
4. **Dr. M.R. Ravikumar**, Professor, Agriculture College, Hanumanmatti, Dist: Haveri, A.P.
5. **Dr. Atul Kumar**, Senior Scientist, Division of Seed Science & Technology, IARI, New Delhi
6. **Dr. S.K. Prashanthi**, Associate Professor (Plant Pathology), Institute for Agriculture Biotechnology, UAS, Dharwad
7. **Dr. Ashok Bhattacharya**, Principals Scientist (Plant Pathology), AAU, Jorhat
8. **Dr. P.V. Patil**, Principal Scientist (Plant Pathology), AICRP on Wheat, UAS Dharwad
9. **Dr. R.P. Pant**, Senior Scientist (Plant Pathology) CPRS, Modipuram
10. **Dr. Shahid Ahamad**, Programme Coordinator, KVK, Rajouri, Jammu
11. **Dr. Archana Mehta**, Sr. Lecturer, Department of Botany, Dr. H.N. Gour Central University, Sagar
12. **Dr. Mihir Kr. Mishra**, Associate Professor, Department of Plant Pathology, OUAT, Bhubaneswar
13. **Dr. H.K. Singh**, Associate Professor, N.D. University of Agriculture & Technology, Faizabad
14. **Dr. P.P. Jambhulkar**, Assistant Professor (Plant Pathology), MPUAT, Banswara, Rajasthan
15. **Dr. B.W. Waghmare**, Professor & Head, Department of Botany, Maharashtra Mahavidyalaya, Nilanga, Latur
16. **Dr. Ram Charan Mathuria**, Chief Technical Officer, Division of Plant Pathology, IARI, New Delhi

#### **Prof. M.J. Narasimahan Academic Merit Award**

The judging committee recommended the name of Dr. Nagamani Sandra, IARI, New Delhi for the paper presentation on "Development of infectious clone and designing of gene expression vector based on legume infecting carmovirus in India" for M.J. Narasimahan Academic Merit Award. However, The name of Shikha Sharma, PAU, Ludhaiana, for paper entitled "Survival, detection and management of *Cucumber mosaic virus* (CMV) and *Zucchini yellow mosaic virus* (ZYMV) infecting cucurbits in Punjab" and Dr. H. Rajashekara, VPKAS, Alomra, for the paper entitled "Virulence analysis of *Magnaporthe oryzae* isolates from blast hot spot locations and inheritance of resistance in rice landrace" have been recommended for Commendation Award.

#### **Best Poster Award**

The judging committee recommended the following names for Best Poster Award in different sessions of the international conference:

Session No.	Session title	Poster awarded			
		Rank	Poster No.	Title	Authors/Institute
01	Taxonomy of fungi, bacteria and viruses	1 <sup>st</sup>	009	Morpho-molecular approach for species delineation of genus <i>Penicillium</i>	Rubin Debbarma, Deeba Kamil, T. Prameela Devi, Dama Ram, R. Sudeep Toppo and Akansha Tyagi IARI, New Delhi
		2 <sup>nd</sup>	011	A combined morpho – molecular approach towards identification of <i>Curvularia</i> species	Dama Ram, T. Prameela Devi, Deeba Kamil, Vikram. P. Sharma, Rubin Debbarma and O.P. Singh IARI, New Delhi

		3 <sup>rd</sup>	001	Phylogenetics analysis and selection of candidate DNA barcode for <i>Bipolaris</i> sp.	Priti Sonavane, T. Prameela Devi, Deeba Kamil, Robin Gogoi and A. Kumar IARI, New Delhi
			008	Arbuscular mycorrhizal and dark septate endophyte fungal association in three vegetable and staple crops of Manipur, Northeastern India	K. Surendirakumar, Ishworani Chongtham and R.R. Pandey Manipur University, Canchipur, Imphal
02	Plant disease diagnostics	1 <sup>st</sup>	031	Yellows and corm rot in gladiolus: Incidence, identification and characterization of <i>Fusarium oxysporum</i> f. sp. <i>gladioli</i>	Nitika Gupta1, Prabha K.1, G.B. Kadam1, S. Sriram2 and N.K. Chandran2 1ICAR-Directorate of Floricultural Research, Pune - 411005, Maharashtra, India; 2Division of Plant Pathology, ICAR Indian Institute of Horticultural Research, Bengaluru
		2 <sup>nd</sup>	040	Diversity and detection of aflatoxins from <i>Aspergillus</i> infected maize grains in NW India	Harleen Kaur1, Harpreet Singh2 and Mandeep Singh Hunjan2 1Department of Plant Breeding and Genetics (Maize), 2Department of Plant Pathology, Punjab Agricultural University Ludhiana - 141004, Punjab,
		3 <sup>rd</sup>	026	Real-Time PCR assay for detection of <i>Myrothecium roridum</i> a leaf spot pathogen of cotton	R.L. Chavhan1, V.R. Hinge1, A.M. Detha1, V.P. Kalbande3, S.P. Kale1 and P.K. Chakrabarty Vilasrao Deshmukh College of Agricultural Biotechnology (VNMKV, Parbhani), Latur
			025	Development and application of Loop-Mediated Isothermal Amplification assay for detection of <i>Ralstonia solanacearum</i>	Garima Chaudhary, D.K. Yadav and Dinesh Singh IARI, New Delhi
		Com.	032	Development, validation and utility of PCR based marker for the detection and quantification of <i>Tilletia indica</i> causing Karnal Bunt of Wheat	M.S. Gurjar1, Rashmi Aggarwal1, Robin Gogoi1, Sapna Sharma1, P.P. Thirumalaisamy2 and Abhinav1 1Division of Plant Pathology, ICAR-Indian Agriculture Research Institute, New Delhi
03	Population genetics and pathogen diversity	1 <sup>st</sup>	116	Inheritance of avirulence and determination of compatibility types in <i>Sclerospora graminicola</i>	C. Raj1, 2 and R. Sharma1 1Dryland Cereal Pathology, International Crops Research Institute for the Semi-Arid Tropics, Patancheru, 2Department of Plant Pathology, Jayshankar Telangana State Agricultural University, Rajendranagar, Hyderabad -
		2 <sup>nd</sup>	113	Phylogenetic classification of bacterial wilt pathogen ( <i>Ralstonia solanacearum</i> ) based on seven house keeping genes	Dinesh Pathak, S. Merwyn Packia Raj, Shalini Bhatt, Ankur Agarwal and M. Nasim

					<i>Defence Institute of Bio-Energy Research (DIBER), DRDO, Haldwani - 263139, Uttarakhand</i>
		3 <sup>rd</sup>	121	Pathogenic variations in races of <i>Xanthomonas campestris</i> pv. <i>campestris</i> causing black rot disease of crucifers	Priyanka Singh Rathaur, Dinesh Singh and Richa Raghuvanshi <i>Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi – 110012, India; Department of Botany, Mahila Mahavidyalya, Banaras Hindu University, Varanasi</i>
		Com.	85	Study of Inheritance of resistance to powdery mildew of pea using different isolates of <i>Erysiphe pisi</i>	Jaya Chaudhary and D.K. Banyal <i>Department of Plant Pathology, CSK Himachal Pradesh Agricultural University, Palampur</i>
04	Host-pathogen interaction and plant immunity	1 <sup>st</sup>	159	Unwiring the defense mechanism during rice non-host resistance against wheat black stem rust infection	Pritha Kundu <sup>1</sup> , Ranabir Sahu <sup>1</sup> , Maitree Pradhan <sup>1</sup> , Avinash Sethi <sup>1</sup> , Prabhakaran Narayanasamy <sup>2</sup> , Aundy Kumar <sup>2</sup> , Shree P. Pandey <sup>1</sup> <i>1Department of Biological Sciences, Indian Institute of Science Education and Research, Kolkata, Mohanpur – 741246, West Bengal, India; 2Department of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
		2 <sup>nd</sup>	140	Validation of reference genes for gene expression studies in virus-infected <i>Nicotiana tabacum</i> plants using qRT-PCR	Eseul Baek and Peter Palukaitis <i>Department of Horticultural Science, Seoul Women's University, Seoul 139-774, Republic of Korea</i>
		3 <sup>rd</sup>	202	Virulence spectrum of <i>Magnaporthe oryzae</i> occurring in Basmati rice growing regions of India	G. Prakash <sup>1</sup> , H. Rajashekara <sup>2</sup> , S. Gopala Krishnan <sup>3</sup> , A.K. Singh <sup>3</sup> , T.R. Sharma <sup>4</sup> and U.D. Singh <sup>1</sup> <i>1Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi -</i>
		Com.	142	Real-time PCR quantification and live-cell imaging of epiphytic colonization of leaf by rice blast fungus, <i>Magnaporthe oryzae</i> using green fluorescence protein	Rohini Chawla <sup>1</sup> , Aundy Kumar <sup>1</sup> , Prabhakaran Narayanaswamy <sup>1</sup> , Vibhuti Munjal <sup>1</sup> , Neelam Sheoran <sup>1</sup> , Prakash Ganesan <sup>1</sup> , Sonika Gupta <sup>1</sup> , Rashmi Aggarwal <sup>1</sup> , Maitree Pradhan <sup>2</sup> and Shree Prakash Pandey <sup>2</sup> <i>1Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi - 110012, India; 2Department of Biological Sciences, Indian Institute of Science Education and Research-Kolkata, Mohanpur, Nadia - 741246, West Bengal</i>

			167	Elicitation of resistance and associated defense responses against pearl millet downy mildew by an endophytic <i>Trichoderma hamatum</i>	Chandra Nayaka S.1, Niranjana Raj S1, H. Shekar Shetty1 and Rakesh Kumar Srivastava2 <i>1Department of Studies in Biotechnology, University of Mysore, Mysore - 570005, Karnataka, India; 2International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad</i>
			190	Host preference and sex ratio studies on Thrips palmi (Thripidae: Thysanoptera) vectoring tospoviruses	Timmanna1, Y.B. Basavaraj1, P.R. Shashank2 and R.K. Jain1 <i>Advanced Center for Virology, Division of Plant Pathology, 2Division of Entomology, ICAR-Indian Agricultural Research Institute, New Delhi - 110012, India</i>
05	Impact of climate changes on epidemiology of emerging diseases	1 <sup>st</sup>	208	Development of rust disease in cotton as influenced by weather parameters	S.L. Bhattachiprolu, V. Chenga Reddy and E. Narayana <i>Acharya N G Ranga Agricultural University, Regional Agricultural Research Station, Lam, Guntur</i>
		2 <sup>nd</sup>	207	Effect of altitude on the current spatial-temporal distribution, severity and incidence of coffee leaf rust in Murang'a County, Kenya	G.O. Alwora, E.K. Gichuru, D.W. Miano, E.W. Mutitu and P. Fabrice <i>KALRO- Coffee Research Institute P.O Box 4-00232 Ruiru, Kenya; 2Department of Plant Science and Crop Protection, University of Nairobi P.O. Box 29053-00625, Nairobi; 3Department of Plant Health, International Center of Insect Physiology and Ecology P.O. Box 30772-00100 Nairobi, Kenya</i>
		3 <sup>rd</sup>	235	Genomics assisted breeding tools to mitigate the existing and emerging plant diseases in climate change	Rishu Sharma <i>Department of Plant Pathology, Faculty of Agriculture, Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur - 741252, West Bengal</i>
			215	Epidemiological factors in relation to development and prediction of anthracnose blight of mango	Supriya Gupta and K.P. Singh <i>Department of Plant Pathology, College of Agriculture G.B. Pant University of Agriculture &amp; Technology, Pantnagar, Uttarakhand</i>
06	Challenges in post-harvest disease management	1 <sup>st</sup>	255	Detection and management of black point of wheat under changing climatic conditions of Madhya Pradesh	Madhvi Taram1, M.S. Bhale2 and GK Koutu2 <i>1Department Of Bioscience, Rani Durgavati Vishwavidhyalaya, Jabalpur</i>
		2 <sup>nd</sup>	249	<i>Solanum torvum</i> – A botanical for management of post harvest disease of Banana	Vimi Louis, Anita Cherian K., Rema Menon, P.G. Sindu and Jisha Kurian <i>Banana Research Station, Kerala Agricultural University, Kannara, Thrissur - 680652, Kerala</i>

		3 <sup>rd</sup>	246	Effect of basil oil based nanoemulsion coating on post harvest diseases of "okra"	A.G. Gajanan <sup>1</sup> , Shalini G.Rudra <sup>2</sup> , Charanjit Kaur <sup>2</sup> , Dinesh Singh <sup>3</sup> , Dhruba J. Sarkar <sup>4</sup> , Shruti Sethi <sup>2</sup> and R.K. Yadav <sup>5</sup> <i>1Division of Food Science and Post harvest Technology, Indian Agricultural Research Institute, New Delhi</i>
07	Disease management in organic and protected cultivation	1 <sup>st</sup>	264	Effective use of Potassium salts of phosphorous (96%) in the control of fungicide resistance <i>Plasmopara viticola</i> causing downy mildew in grapes	S.D. Sawant, M.R. Ghule, R.M. Savardekar, I.S. Sawant and Sujoy Saha <i>ICAR-National Research Centre for Grapes, Manjri Farm Post, Pune-Solapur Road, Pune</i>
		2 <sup>nd</sup>	279	Approach towards farmers' acceptance of cost effective organic production module in Tomato ( <i>Lycopersicon esculentum</i> L.)	A. Roy, N. Sarkar and P.M. Bhattacharya <i>Department of Plant Pathology, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar</i>
		3 <sup>rd</sup>	280	Control of foliar diseases of tea by <i>Clausena excavata</i> leaf extract	Dipanwita Saha, Ramashish Kumar and Aniruddha Saha <i>Department of Biotechnology, University of North Bengal, Siliguri</i>
		Com.	278	Development of integrated disease management (IDM) for the management of early blight of tomato ( <i>Lycopersicon esculentum</i> Mill.) caused by <i>Alternaria solani</i>	D. Rekha <sup>1</sup> , M. Krishna Reddy <sup>1</sup> , P. Chowdappa <sup>2</sup> and S.P. Mohan Kumar <sup>1</sup> <i>Division of Plant Pathology, ICAR-Indian Institute of Horticultural Sciences, Bangalore</i>
8	Challenges in integrated crop management with respect to diseases	1 <sup>st</sup>	356	A common minimum programme: an eco-friendly approach for the plant disease management for small farms	Bhupesh Chandra Kabdwal, Roopali Sharma, Rashmi Tewari and J. Kumar <i>Bio Control Laboratory, Department of Plant Pathology, College of Agriculture; G.B. Pant University of Agriculture &amp; Technology, Pantnagar</i>
		2 <sup>nd</sup>	362	Development of bio-agent based module for integrated management of sheath blight of rice	Aradhika Tripathi <sup>1</sup> , S.C. Dubey <sup>2</sup> and S. Indira <sup>3</sup> <i>ICAR-Indian Agricultural Research Institute, New Delhi</i> <i>ICAR-National Bureau of Plant Genetic Resources, New Delhi - 110012, India;</i> <i>Institute of Bioresources and Sustainable Development, Imphal</i>
		3 <sup>rd</sup>	318	Management options for major Indian mustard diseases through balanced fertilization, cultural practices and restricted use of fungicides in NEPZ of India	Ashish Kumar Gupta <sup>1</sup> , Ravish Choudhary <sup>1</sup> , Rishi Raj <sup>2</sup> and D.U.M. Rao <sup>1</sup> <i>1ICAR-Indian Agricultural Research Institute, Regional Station, Pusa, Samastipur - 848125, Bihar, India;</i> <i>2ICAR-India Indian Agricultural Research Institute, New Delhi -</i>

			403	Induction of defense-related enzymes in tomato cultivars by <i>Bacillus amyloliquefaciens</i> DSBA-11 against bacterial wilt caused by <i>Ralstonia solanacearum</i>	D.K. Yadav, Garima Chaudhary and Dinesh Singh <i>Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>	
		Com.	357	An overview of integrated approaches against collective challenges for effective management of banded leaf and sheath blight in maize	Vimla Singh <sup>1</sup> , K.S. Hooda <sup>1</sup> , Robin Gogoi <sup>2</sup> and Aundy Kumar <sup>2</sup> <i>1Maize Pathology, ICAR-Indian Institute of Maize Research, Pusa Campus, New Delhi - 110012, India; 2Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>	
9	Bio-prospecting in biocontrol agents for sustainable agriculture	1 <sup>st</sup>	505	Triple combination of Copper-Chitosan- <i>Trichoderma</i> for eco-friendly management of late blight of potato	N.R. Bharadwaj <sup>1</sup> , L. Rawat <sup>2</sup> , R. Balodi <sup>1</sup> , J.Purohit <sup>1</sup> , A.K. Tewari <sup>1</sup> and J. Kumar <sup>1</sup> <i>1Department of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar - 263145, Uttarakhand</i>	
			2 <sup>nd</sup>	516	A simple confrontation assay technique to evaluate antifungal potential of siderophore producing and cyanogenic fluorescent pseudomonas	Anil S. Kotasthane <sup>1</sup> , Toshy Agrawal <sup>2</sup> and U.S. Singh <sup>3</sup> <i>1Department of Plant Pathology, Indira Gandhi Krishi Vishwavidyalaya, Raipur 2Department of Plant Molecular Biology &amp; Biotechnology, Indira Gandhi Krishi Vishwavidyalaya, Raipur - 492006, Chhattisgarh, India; 3International Rice Research Institute, India Office, New Delhi</i>
				484	Isolation, identification and evaluation of <i>Trichoderma</i> species from different agroclimatic zones of Rajasthan, India	M. Raja, R. Thava Prakasa Pandian, Manika Sharma and Pratibha Sharma <i>Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
			3 <sup>rd</sup>	488	Molecular and biochemical analysis of antagonistic potential of <i>Chaetomium globosum</i>	Sapna Sharma <sup>1</sup> , Sangeeta Gupta <sup>1</sup> , Lalit Laxman Kharbikar <sup>2</sup> and Rashmi Aggarwal <sup>1</sup> <i>1Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
				423	Selection of growth promoting <i>Trichoderma</i> isolates for crop improvement under sustainable agriculture	Meenakshi Dwivedi and A. K. Tewari <i>Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar</i>
		Com.	518	Evaluation of <i>Trichoderma</i> spp. for managing biotic and abiotic stresses in Chickpea ( <i>Cicer arietinum</i> L.)	Rishi Mishra and R.N. Pandey <i>Department of Plant Pathology, B. A. College of Agriculture, Anand Agricultural University, Anand - 388110, Gujarat</i>	

			489	Molecular characterization of <i>Trichoderma asperellum</i> (Ta13) and exploring its chitinases	R. Thava Prakasa Pandian, M. Raja and Pratibha Sharma <i>Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
			460	Antagonistic properties of <i>Trichoderma</i> spp. restricted due to <i>Fusarium</i> sp. – Aunique case	U.R. Sangle, Santosh Kumar and J.S. Mishra <i>ICAR Research Complex for Eastern Region, Patna - 800014, Bihar</i>
10	Biopesticide industry and entrepreneurship development in crop protection	1 <sup>st</sup>	530	Magnitude of Pesticidal Contamination in Winter Vegetables from Hisar, Haryana	Jyotsna Pandey <sup>1</sup> and Gitam Singh <sup>2</sup> <i>1Department of Biotechnology, Banasthali Vidyapith, Tonk- 304 022, Rajasthan, 2Animal Science, Krishi Vigyan Kendra, Tonk</i>
		2 <sup>nd</sup>	526	Fermented extract of <i>Setaria barbata</i> , a common weed and fermented egg lemon juice extract – novel bio pesticides for eco friendly disease management and crop growth	A. Sajeena <sup>1</sup> , P. Sukumari <sup>1</sup> , Jacob John <sup>1</sup> and Kamala Nayar <sup>2</sup> <i>1Cropping Systems Research Centre, Karamana, Trivandrum - 695 002, Kerala Agricultural University, 2Instructional Farm, College of Agriculture, Vellayani, Kerala Agricultural University</i>
11	Use and risk assessment of next generation fungicides	1 <sup>st</sup>	560	Resistome of black pepper - <i>Trichoderma</i> rhizosphere	P. Umadevi, Vivek Srivastav and M. Anandaraj <i>ICAR- Indian Institute of Spices Research, Kozhikode - 673012, Kerala</i>
		2 <sup>nd</sup>	540	Effect of chemical fungicides against sheath blight disease of rice in Coastal Plain Zone	Deepa Khulbe, K.C. Sahoo and B.B. Dash <i>Orissa University of Agriculture &amp; Technology, Bhubaneswar</i>
		3 <sup>rd</sup>	554	Field evaluation of fungicides against glume discolouration of rice	G.V. Sible, J. Reshmi, A.S. Alfred, D. Ambikadevi and A.V. Mathew <i>Regional Agricultural Research Station, Kumarakom, Kottayam - 686563, Kerala</i>
12	Genomics and bioinformatics in plant pathology	1 <sup>st</sup>	568	Analysis of bacterial communities of two vegetable seeds via highthroughput sequencing of 16S rRNA	Weigang Kuang <sup>1</sup> , Yahong Lei <sup>2</sup> , Jianqiang Li <sup>1</sup> , Laixin Luo <sup>1</sup> , Wanchun Wang <sup>3</sup> , Wenna Gao <sup>3</sup> <i>1Department of Plant Pathology, China Agricultural University/Key Laboratory of Plant Pathology, Ministry of Agriculture, Beijing 100193, P. R. China; 2College of Pastoral Agriculture Science and Technology, Lanzhou University/Key Laboratory of Grassland Farming Systems, Lanzhou 730020, P. R. China; 3Beijing Entry-exit Inspection and Quarantine Bureau, Beijing 1</i>
		2 <sup>nd</sup>	581	Molecular characterization of alphasatellite and betasatellite molecules	Balram Nenavath, Utpal Kumar Bhattacharyya, Shruti Godara, Prosenjit Chakraborty and Kajal Kumar Biswas



				associated with cotton leaf curl disease in Northwest India	<i>Advanced Centre for Plant Virology, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
		3 <sup>rd</sup>	578	Metagenomic analysis of rice phyllospheric bacterial communities in relation to blast disease	Kuleshwar Prasad Sahu <sup>1</sup> , Aundy Kumar <sup>3</sup> , R. Rathore <sup>2</sup> , Gopalakrishnan Subbaiyan <sup>2</sup> , and Robin Gogoi <sup>1</sup> <i>1Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi - 110012, India; 2Department of Agricultural Biotechnology, H.P. Agricultural University, Palampur - 176062, Himachal Pradesh, India; 3Division of Genetics, ICAR-Indian Agricultural Research Institute, New Delhi</i>
13	Biotechnological approaches for plant disease management	1 <sup>st</sup>	605	Introgression of BLB resistance gene (s)Xa4, Xa7, Xa21 in Karma Mahsuri through marker assisted selection	Aafreen Khan, Anil S. Kotasthane <sup>1</sup> , Toshiy Agarwal <sup>2</sup> , Moka suma <sup>1</sup> and Mekala Mallikarjun <sup>1</sup> <i>1Department of Plant Pathology, 2Department of Plant Molecular Biology and Biotechnology, College of Agriculture, Indira Gandhi Krishi Vishwavidyalaya, Raipur</i>
		2 <sup>nd</sup>	602	Association of recombinant cotton leaf curl-begomovirus leading to higher disease incidence	Shruti Godara, Kajal Kumar Biswas <sup>1</sup> and S.M. Paul Khurana <sup>2</sup> <i>1Advanced Centre for Plant Virology, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute; 2Amity Institute of Biotechnology, Amity University, Manesar - 122413, Haryana</i>
		3 <sup>rd</sup>	606	Control of anthracnose disease caused by <i>Colletotrichum gloeosporioides</i> through host-induced gene silencing in tomato and chilli	Binod Kumar Mahto, Nanditha Krishnan V <sup>1</sup> and Swatishmita Ray Dhar <sup>2</sup> <i>1TERI University, 10, Institutional Area, Vasant Kunj, New Delhi - 110070, India, 2The Energy and Resources Institute (TERI), Darbari Seth block, India Habitat Centre, Lodhi Road, New Delhi</i>
14	Extension plant pathology : Challenges to implement	1 <sup>st</sup>	616	Current status of diseases and pesticide use in tomato: a key source of income of farmers of Uttarakhand	Rashmi Tewari, B.C. Kaddwal, R.P. Singh, Roopali Sharma and J. Kumar <i>Department of Plant Pathology, College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar</i>
		2 <sup>nd</sup>	615	Addressing insect pest management problems of fruits through <i>Kisan</i> Call Centre	S. Chandra, B. Lal, P.K. Shukla, Arvind Kumar and Achal Singh <i>ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, PO: Kakori, Lucknow</i>

15	Education and human resource development in plant pathology			No recommendation	
16	Role of plant pathology in International trade, biosecurity and food security	1 <sup>st</sup>	623	Pathogenic fungi not yet reported from India intercepted in imported germplasm	Jameel Akhtar, Baleshwar Singh, A. Kandan, Dinesh Chand, Pardeep Kumar, Ashok Kumar Maurya and S.C. Dubey <i>Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, New Delhi</i>
		2 <sup>nd</sup>	621	Diversity of Ketosynthase domain in <i>Aspergilli</i>	Madhvi Prajapati, Preetida J. Bhetariya, Anupam Varma and P. Usha Sarma <i>ICAR-Indian Agricultural Research Institute, New Delhi</i>
		3 <sup>rd</sup>	620	Status of white tip nematode infection in rice germplasm meant for pest free conservation in National Genebank	Bharat H. Gawade, Zakaullah Khan, Jameel Akhtar and S.C. Dubey <i>Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, New Delhi -</i>
17	Plant mollicutes : challenges in research	1 <sup>st</sup>	637	Transcriptomics based analysis using RNA Seq of the coconut ( <i>Cocos nucifera</i> ) leaf in response to root wilt disease	R. Manimekalai <sup>1</sup> , Smita Nair <sup>2</sup> , Naganeeswaran, S. 2 and G.P. Rao <sup>3</sup> <i>1ICAR-Sugarcane Breeding Institute, Coimbatore - 641007, Tamil Nadu, India; 2Molecular Biology Laboratory, ICAR-Central Plantation Crops Research Institute, Kasaragod - 671124, Kerala, India; 3Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
		2 <sup>nd</sup>	638	Diverse phytoplasma strains are associated with sesame ( <i>Sesamum indicum</i> L.) phyllody in India	Amrita Singh, R. Khongbantabam, Vibhuti Singh, S. Kumar and Suman Lakhanpaul <i>Plant Molecular Genetics Laboratory, Department of Botany, University of Delhi, Delhi</i>
		3 <sup>rd</sup>	630	Genetic diversity and natural spread sources of brinjal little leaf phytoplasma	Manish Kumar, Madhupriya and G.P. Rao <i>Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</i>
		Com.	641	Studies on rice orange leaf (ROL) phytoplasma infecting rice	Valarmathi Pandian <sup>1</sup> , Rethinasamy Velazhahan <sup>1</sup> , Seetharaman Suresh <sup>2</sup> , Sabariappan Robin <sup>3</sup> , Ramalingam Rabindran <sup>1</sup> and Govind P. Rao <sup>4</sup> <i>1*Department of Plant Pathology, ICAR-Indian Institute of Rice Research, Hyderabad - 500030, Telangana, India; 2Tamil Nadu Rice Research Institute, Aduthurai - 612101, Tamil Nadu, India; 3Department of Rice, 1Department of Plant Pathology, Tamil Nadu Agricultural University,</i>

					Coimbatore - 641003, Tamil Nadu, India; 4Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi
18	Advances in use of tools and techniques in plant pathology	1 <sup>st</sup>	650	A soil-less system for culturing rice root-knot nematode, <i>Meloidogyne graminicola</i>	Puneet Kumar <sup>1</sup> , Vinod Kumar <sup>1</sup> , Sharad Mohan <sup>2</sup> and R.K. Walia <sup>1</sup> 1AICRP on Nematodes, LBS Building; 1Division of Nematology, ICAR-Indian Agricultural Research Institute, New Delhi
		2 <sup>nd</sup>	645	Radiation induced mutation for disease resistance against <i>Fusarium oxysporum</i> f.sp. <i>ciceris</i> in chickpea ( <i>Cicer arietinum</i> L.)	Devashish R. Chobe, Om Gupta and Maruti Pawar Department of Plant Pathology Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur
		3 <sup>rd</sup>	647	Interception and salvaging of root-lesion nematode on apple ( <i>Malus domestica</i> ) saplings imported from the Netherlands	Zakaullah Khan, Bharat. H. Gawade, D.B. Parakh and S.C. Dubey Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, New Delhi
19	Mushroom fungi : friend of human being	1 <sup>st</sup>	658	Transcriptional regulation of phosphate transportation from <i>Piriformospora indica</i> to the host plant depends upon Phosphate availability	Vikram Dayaman <sup>1</sup> , Manoj Kumar <sup>2</sup> , Arun Kumar Kashyap <sup>1</sup> , Abhimanyu Jogawat <sup>1</sup> and Atul Kumar Johri <sup>1</sup> 1School of Life Sciences, Jawaharlal Nehru University, New Delhi - 2CSIR-Indian Institute of ToxicologyResearch, Lucknow
		2 <sup>nd</sup>	661	Comparative study on seven strains of Shiitake mushroom ( <i>Lentinula edodes</i> ) in relation to laccase production, substrate degradation and yield potential	Sudha Nandni <sup>1</sup> , S.K. Mishra <sup>1</sup> , Tanvi Gaur <sup>2</sup> and S.K. Aggarwal <sup>3</sup> 1Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar - 263 145, Uttarakhand, India
		3 <sup>rd</sup>	664	Ethnomycological studies of some wild mushrooms of Kashmir Himalayas	A.H. Wani, A.R. Malik, M.Y. Bhat and Shazia Parveen Section of Mycology and Plant Pathology, Department of Botany, University of Kashmir, Hazaratbal, Srinagar - 190006, Jammu & Kashmir
20	Host-resistance for sustainable agriculture	1 <sup>st</sup>	686	Pyramiding genes for bacterial blight and blast diseases resistance into a Basmati rice variety "Pusa Basmati 1509" through marker assisted selection	Vidya Sagar <sup>1</sup> , Priyanka Dwivedi <sup>1</sup> , Gaurav Dhawan <sup>1</sup> , Amit Kumar <sup>1</sup> , Gopala Krishnan S., P.K. Bhowmick <sup>1</sup> , K.K. Mondal <sup>2</sup> , G. Prakash <sup>2</sup> , M. Nagarajan <sup>3</sup> , K.K. Vinod <sup>3</sup> , N.K. Singh <sup>4</sup> , K.V. Prabhu <sup>1</sup> and A.K. Singh <sup>1</sup> 1Division of Genetics, 2Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi - 110012, India; 3Rice Breeding and Genetics Research Centre, ICAR-IARI, Aduthurai - 612101, Tamil Nadu, India; 4ICAR National Research Centre

					on Plant Biotechnology, New Delhi - 110012, India
		2 <sup>nd</sup>	704	Slow rusting resistance in exotic wheat germplasm to stripe rust pathogen <i>Puccinia striiformis tritici</i>	Vaibhav K. Singh, G.P. Singh, P.K. Singh, Harekrishna, R.C. Mathuria, R. Gogoi and R. Aggarwal ICAR-Indian Agricultural Research Institute, New Delhi - 110012, India
		3 <sup>rd</sup>	703	Evaluation of hybrids for yield and resistance to post flowering stalk rot in maize	Nirupma Singh, Meena Shekhar, Ambika Rajendran and Ram Babu ICAR-Indian Institute of Maize Research, Pusa Campus, New Delhi - 110012
PGPR session	PGPRs for Sustainable Crop Productivity	1 <sup>st</sup>	31	Mechanism of P solubilization and antifungal activity of <i>Streptomyces</i> in improving plant growth	Rahul Jog <sup>1,2</sup> and Shalini Rajkumar <sup>1</sup> <i>1Institute of Science, Nirma University, Ahmedabad - 382481, Gujarat, India; 2Environmental Molecular Biology Laboratory, Faculty of Environmental Earth Science, Hokkaido University, Japan</i>
		2 <sup>nd</sup>	23	Functional characterization of an osmoregulator MAP kinase from the root endophytic fungus <i>Piriformospora indica</i>	Abhimanyu Jogawat <sup>1</sup> , Jyothilakshmi Vadassery <sup>2</sup> and Atul Kumar Johri <sup>1</sup> <i>1School of Life Sciences, Jawaharlal Nehru University, New Delhi - 110067, India; 2National Institute of Plant Genome Research, New Delhi, India; Email</i>
		3 <sup>rd</sup>	36	Functional and genetic characterization of osmotolerant endophytic bacteria isolated from pearl millet cultivars	Manjunatha B.S. <sup>1</sup> , Chetana Aggarwal <sup>1</sup> , Bandeppa <sup>2</sup> , A.S. Dukare <sup>3</sup> , M.S. Rathi <sup>1</sup> and Sangeeta Paul <sup>1</sup> <i>1Division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi - 110 012, India; 2Division of Crop Production, ICAR-Indian Institute of Rice Research, Hyderabad - 500030, India; 3Central Institute of Post-Harvest Engineering and Technology, Ludhiana - 141004, Punjab</i>
Total			347		

### Treasurer's report (2015)

The report was presented by the Dr. Dinesh Singh, Treasurer, IPS. A marked improvement in collection of fund has been achieved during this period and Society is in sound financial position. During this financial year (2015-16) He also informed that in last five years, the Society has additional increased in its financial position of Rs. 35.00 Lakhs.

### Chief Editor's Report (2015)

The report was presented by the Secretary on behalf of Chief Editor, IPS. During 2015-16, total 199 papers were received through on-line submissions. Out of these, 55 were rejected, 84 published, 38 are

in review, 7 have been accepted for next issue and 18 have been sent back to authors for revision. This shows approximately 27% articles rejection rate.

### Composition of Executive Council (2016)

As per the election result declared the new elected Executive Council are as follows:

Position	Candidate Name	Elected/ Nominated
President Elect	Dr. B.N. Chakraborty, North Bengal University, Siliguri, West Bengal	Elected
Zonal President (WZ)	Dr. K.T. Apet. Head (Plant Path.), MAU, Parbhani, MS	Nominated
Zonal Councillor (WZ)	Dr. U.P. Mogle, Assoc. Professor, Deptt. of Botany, JES College, Jalna, MS	Nominated
Zonal President (DZ)	Dr. G.P. Rao, Division of Plant Pathology, IARI, New Delhi	Nominated
Zonal Councillor (DZ)	Dr. G. Prakash, Division of Plant Pathology, IARI, New Delhi	Nominated
Zonal President (SZ)	Dr. S.T. Naik, Professor of Plant Pathology, Department of Plant Pathology, UAS, Dharwad - 580005	Nominated
Zonal Councillor (SZ)	Dr. Shamarao Jahagirdar, Dept. of Plant Pathology, AICRP on Soybean, UAS, Dharwad	Nominated
Zonal President (MEZ)	Dr. Krishna Kumar, IIPR, Kanpur	Nominated
Zonal Councillor (MEZ)	Dr. Md. Akram, IIPR, Kanpur	Nominated
Zonal President (CZ)	Dr. M. Srinivas Prasad, Indian Institute of Rice Research, Hyderabad	Nominated
Zonal Councillor (CZ)	Dr. V. Prakasam, Indian Institute of Rice Research, Hyderabad	Nominated
Zonal President (NEZ)	Prof. K.C. Puzari, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam	Nominated
Zonal Councillor (NEZ)	Prof. Ashok Bhattacharya, Department of Plant Pathology, Assam Agricultural University, Jorhat, Assam	Nominated
Zonal President (EZ)	Dr. Jayant Saha, BCKV, Kalyani, WB	Nominated
Zonal Councillor (EZ)	Dr. Birendranath Panja, BCKV, Kalyani, WB	Nominated
Zonal President (NZ)	Dr. M.S. Saharan, IIWBR, Karnal, Haryana	Nominated
Zonal Councillor (NZ)	Dr. Sudhir Kumar, IIWBR, Karnal, Haryana	Nominated

### Zonal Chapter activities

Seven Zonal Chapters of the Society have actively organized symposia on different themes at their respective Zonal Meetings on important aspects of Plant Pathology.

1. Southern Zone	05-06 January, 2016 UAS, Raichur	Recent Advances in Plant Pathological Research and Education
2. Delhi Zone	Feb. 20, 2016	Biosecurity in food value chain
3. Western Zone	November 28-29, 2015 College of Agriculture Badnapur, Jalna	Prospects in Diversity, Diagnosis and Management of Diseases of Horticultural and Field Crops
4. Eastern Zone	7th January, 2016 UBKV, Coochbehar, WB	<i>Recent tools in Plant Disease Diagnostics</i>
5. North Eastern Zone	January 15 to 16 <sup>th</sup> , 2016	Plant Health Management in North East India
6. Mid-eastern Zone	18-19 December 2015 BHU, Varanasi	Impact of climate change on plant-microbe interactions and its implications
7. North Zone	28-29 <sup>th</sup> September, 2015 YSPHAU, Shimla, HP	Holistic Approaches for Plant Health Management

**The following decision were taken and approved by the General body.**

#### **International Workshop on *Trichoderma* and *Gliocladium***

The International workshop on *Trichoderma* and *Gliocladium* will be organised by “Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola”, “Association of Plant Pathologist” and “Indian Phytopathological Society, New Delhi” in November 2016.

#### **Institution of New Award in the Name of “S. Sinha Memorial Award”**

The EC felt that the Society has too many annual lecture awards. Hence, it was suggest that the “**S. Sinha Memorial Lecture Award**” will be held biennial and the detailed guidelines will be sent to donors for mutual consent.

#### **IPS-APS MOU**

The memorandum of understanding between the American Phytopathological Society (APS) and the Indian Phytopathological Society (IPS) was signed to facilitate mutually beneficial interactions through scientific exchanges and increased sharing of science by joint memberships and professional interactions.

#### **Travel grant to student members for participation in APS Meeting**

A proposal was given by the Dr. Krishna Subbarao, APS Representative, to provide financial assistance to the student members of the Society for participation in APS Meeting and the proposal was introduced and accepted by the General Body.

#### **6<sup>th</sup> International Conference on “Plant, Pathogens and People”**

The Indian Phytopathological Society in collaboration with all the ICAR institutes based in Delhi and adjoining area, organized 6<sup>th</sup> International Conference on “**Plant, Pathogens and People**” with the

theme “**Challenges in Plant Pathology to benefit Humankind**”, February 23-27, 2016 at NASC Complex, New Delhi, India. Total 750 delegates including 68 foreign delegates belonging to 36 countries participated in the conference. The conference was inaugurated by Padma Bhushan Prof. Prof V.L. Chopra, former Member of Planning Commission and Secretary, DARE & DG, ICAR.

The Secretary thanked and expressed sincere gratitude to Dr. A.K. Misra, President for their guidance, advice, encouragement and support in day to day functioning of the Society. The Secretary also thanked profusely Dr. P. Chowdappa, President Elect; Chairman of Organizing committee and rapporteurs of various technical sessions and members of organizing sub committees for their wholehearted support in making the 68<sup>th</sup> Annual General Body Meeting a grand success. My thanks are also due to all the staff members and students for rendering their valuable help in various ways for making the symposium success. It is my prime duty to thank all the members of Executive Council for their cooperation, active support and suggestions in various activities of the Society. Last but not least, I am thankful to the staff of the Headquarter of IPS for their valuable support.



Pratibha Sharma

(Secretary)

**Dr. PRATIBHA SHARMA**  
**Secretary**

**Indian Phytopathological Society**  
**Division of Plant Pathology**  
**I.A.R.I., New Delhi-110 012, India**

