

**Symposium on Changing plant disease scenario in relation to climate change  
Jointly Organized by Indian Phytopathological Society (Southern Zone)  
and Indian Institute of Spices Research (ICAR), Calicut  
22–23 OCTOBER 2010**

**Venue: Indian Institute of Spices Research, Calicut**

**PROGRAMME**

**22-10-2010**

09.00–10.00 **Registration**

10.00–11.20 **Inaugural Session**

10.00–10.05 Invocation

10.05–10.15 Welcome & about symposium: Dr. S. Devasahayam, IISR, Calicut

10.15–10.40 Presidential address: Dr. M Anandaraj, President, IPS (Southern Zone)

**Topic: Challenges posed by climate change for plant pathologists**

10.45–11.10 Inauguration and Inaugural address: Dr V A Parthasarathy, Director, IISR, Calicut

**Topic: Geophytopathology**

11.10–11.15 Vote of thanks: Dr. A I Bhat, Organizing Secretary

11.15–11.20 National anthem

11.20–11.45 **Tea**

11.45–13.30 **Oral Session I**

**Chairperson** :Dr. M Anandaraj, IISR, Calicut

**Rapporteurs**: Dr. T Saravanan, Horticultural Res. Station, Yercaud  
Dr. Kantharaju, KVK, Gulbarga

11.45–12.10: Effect of climate change on outbreak of bacterial blight of pomegranate caused by *Xanthomonas axonopodis* pv. *punicae*  
*Dr. V I Benagi, Dept of Plant Pathology, UAS, Dharwad*

12.10–12.35: Can we predict impacts of climate change on fungal disease emergence in horticultural crops in India?  
*Dr. Chowdappa Pallem, IIHR, Bangalore*

12.35–13.00: Disease epidemics and prediction modeling in important biofuel yielding tree species in relation to weather parameters  
*Dr. V Suryanarayana, College of Forestry, UAS, Dharwad, Sirsi*

13.00–13.25: Climate change and post - harvest diseases and their influence on food security  
*Dr. G R Janardhana, Dept. of Studies in Botany, University of Mysore*

13.30–14.15 **Lunch**

14.15–16.00 **Oral Session II**

**Chairpersons:** Dr. P Chowdappa, IIHR, Bangalore  
Dr. H Narayana Swamy, Agriculture College, Shimoga

**Rapporteurs:** Dr. G Thiribhuvanamala, TNAU, Coimbatore  
Dr. G Girish, Gulbarga

14.15–14.35: Disease dynamics in sugarcane: Possible role of climatic Factors  
*Dr. R Viswanathan, SBI, Coimbatore*

14.35–14.55: Diagnostic needs in a changing disease scenario  
*Dr. A I Bhat, IISR, Calicut*

14.55–15.15: Cassava mosaic disease in India – A serious threat to cassava cultivation in the changing climate and possible management options  
*Dr. T Makeshkumar, CTCRI, Trivandrum*

15.15–15.35: Changing disease scenario due to climate change in virus diseases of Vegetable crops  
*Dr. M Krishna Reddy, IIHR, Bangalore*

15.35–15.55: Changing disease scenario in Horticultural Crops due to climate Change  
*Dr. N Ramachandran, IIHR, Bangalore*

16.00–16.15 **Tea**

16.15–17.00 **Oral Session III**

**Chairpersons:** Dr. G R Janardhana, University of Mysore  
Dr. V B Naragund, UAS, Dharwad

**Rapporteurs:** Dr. Shamarao Jahagirdar, AICRP on Soybean, UAS, Dharwad  
Dr. C N Biju, CRC, Appangala

16.15–16.35: Changing disease scenario due to climate change with reference to banana  
*Dr. R Selvarajan, NRC for Banana, Trichy*

16.35–16.55: Changing disease scenario in sunflower crop in relation to

climate change

*Dr. V B Nargund, Dept of Plant Pathology, UAS, Dharwad*

17.00–19.00 **Poster Session I**

- PP – 01 Impact of climate change on the occurrence of mushrooms  
*G Thiribhuvanamala, V Prakasam, A S Krishnamoorthy, G Chandrasekar, K Sakthivel & S Veeralakshmi*
- PP – 02 Impact of mushroom training and farmers perception in Tamil Nadu  
*V Prakasam, G Thiribhuvanamala, G Chandrasekar, B Malarkodi & K Ahila Devi*
- PP – 03 New record of bacterial wilt of small cardamom (*Elettaria cardamomum* Maton) caused by *Ralstonia solanacearum* Yabuuchi (Smith) and its functional & genotypic characterization  
*A Kumar, T P Prameela, R Suseela Bhai, A Siljo, C N Biju & M Anandaraj*
- PP – 04 Exploitation of fungicides and PGPR for the sustainable management of downy mildew of grapevine incited by *Plasmopara viticola*  
*Archana Sornakili, Prabakar Kuppusamy, Manjunath Hubballi & Raguchander Thiruvengadam*
- PP – 05 Incidence of wilt-complex in *Coleus forskholii* in different parts of Karnataka  
*S B Mallesh & S Lingaraju*
- PP – 06 Evaluation of fungicides against three soil-borne pathogens of pigeon Pea (*Cajanus cajana*)  
*S B Mallesh*
- PP – 07 First report of anthracnose of noni and its sustainable management  
*Manjunath Cholappa Hubballi, Archana Sornakili, Sevugapperumal Nakkeeran & Thiruvengadam Raguchander*
- PP – 08 Influence of the cultivars and transplanting time on the incidence of Tomato leaf curl disease in Northern Karnataka  
*B Anjaneya Reddy, M S Patil & V I Benagi*
- PP – 09 Evaluation of different fungicides to control inflorescence dieback of Arecanut (*Colletotrichum gloeosporioides* (Penz.) Penz. & Sacc.) under *in vitro* and *in vivo* conditions - *H Narayana Swamy, K S Sheshagiri, M Dinesh Kumar, M K Bassavaraju & Tabsum Begum*
- PP – 10 *In vitro* and *in vivo* evaluation of fungicides against fruit rot of arecanut (*Phytophthora meadii*)  
*H Narayana Swamy, K S Sheshagiri, M K Bassavaraju, M Dinesh Kumar & Tabsum Begum*

- PP – 11 Characterization of the virus associated with chlorotic streak, a new Disease of cardamom in India  
*A Siljo, A I Bhat, C N Biju & M N Venugopal*
- PP – 12 Effect of biocontrol agents for the sustainable management of alternaria blight in cotton  
*K Sivaranjani & A Chandrasekaran*
- PP – 13 Influence of weather parameters on the incidence of Grey mildew of cotton  
*A Chandrasekaran & K Sivaranjani*
- PP – 14 Role of fluorescent pseudomonas in maintaining plant health in a Changing climate for the sustainable agriculture  
*Sumant Chaubey & G Archana*
- PP – 15 Sustainable management of banana anthracnose incited by *Colletotrichum musae*  
*Prema Ranjitham Thangamani*
- PP – 16 Bio-management of viruses and vectors in tomato and chilli  
*Satyavati, N Nagaraju, A S Padmaja, Nagaraju, B M R Reddy & P Venkataravana*
- PP – 17 Influence of weather factors on the incidence of anthracnose disease of black pepper incited by *Colletotrichum gloeosporioides*  
*C N Biju, R Praveena, S J Ankegowda, C N Darshana & K C Jashmi*
- PP – 18 *Bacillus cereus* for eco friendly management of groundnut root rot caused by *Macrophomina phaseolina*  
*Sumithra Antony*
- PP – 19 Effect of consortium of biocontrol agents and biofertilizer organisms in vermicompost towards disease suppression and plant growth  
*R Suseela Bhai, Lamya Moideen, K P Sangeeth, K Sreeja & S J Eapen*
- PP – 20 Impact of weather factors, nitrogen level and seed rate on sheath blight occurrence in rice  
*M Surendran, Reena Mathew, Reema Anand & V R Sheeja*
- PP – 21 Screening of cardamom accessions against chenthal disease incited by *Colletotrichum gloeosporioides* (Penz.) Penz and Sacc.  
*R Praveena, C N Biju, R Senthil Kumar, C N Darshana & K C Jashmi*
- PP – 22 Multi-location ginger diseases scenario in parts of Uttara Kannada and Shimoga in Karnataka  
*M R Ravikumar & V Suryanarayana*

- PP – 23 Integrated management of foot rot of black pepper caused by  
*Phytophthora Capsici*  
*G Siva Kumar, M K Dhanya & Narayana Raghavan*
- PP – 24 Status of rice blast disease and its management in Southern Karnataka  
*M K Prasanna Kumar, D K Siddde Gowda, C N Lakshminarayana Reddy & P Mahadevu*
- PP – 25 Diversity of fungi on spices from Dharwad, Karnataka  
*Ch Ramesh & Santoshkumar Jayagoudar*
- PP – 26 Isolation and characterization of rhizobacteria from ginger (*Zingiber officinale* Rosc.) for biocontrol and growth promotion  
*Y K Bini, R Aravind, M Anandaraj, A Kumar & R Dinesh*
- PP – 27 Management of seed borne pathogens  
*Najibullah Rahmatzai & Muhammad Saifulla*
- PP – 28 Maize disease scenario in Karnataka  
*S I Harlapur, B T Ningalur & D I Jirali*

19.30: **Dinner**

**23-10-2010**

9.30-11.30: **M J Narasimhan Award Contest**

**Chairperson:** Dr. N Ramachandran, IIHR, Bangalore

**Rapporteur:** Dr. M Surendran, Rice Research Station, KAU, Moncompu

9.30-9.50: Efficiency of strobilurins against Bean common mosaic virus in french bean  
*A C Udayashankar, University of Mysore*

9.50-10.10: Development of Agrobacterium mediated transformation protocol and transgenic lines of black pepper for resistance against viruses  
*Ms. M V Jiby, IISR, Calicut*

10.10-10.30: Development and Formulation of Effective Biofertilizers for Management of Black Pepper and Cardamom  
*Mr. K P Sangeeth, IISR, Calicut*

10.30-10.50: Detection, Identification and Characterization of Dasheen mosaic virus causing mosaic in elephant foot yam  
*Mr. Binoy Babu, CTCRI, Trivandrum*

10.50-11.10: Pseudomonas sp. as bacterial antagonists against Aspergillus flavus

*Ms. S Sindhu, IISR, Calicut*

- 11.10-11.30: Endophytic bacteria from ginger (*Zingiber officinale* Rosc.): A potential source of antagonists against soft rot and bacterial wilt  
*Ms. Y K Bini, IISR, Calicut*

11.30-11.45 **Tea**

11.45- 13.30 **Oral Session IV**

**Chirpersons:** Dr. V I Benagi, UAS, Dharwad

Dr. S I Harlapur, UAS, Dharwad

**Rapporteurs:** Dr. P Malathi, SBI, Coimbatore

Dr. R Praveena, CRC, Appangala

- 11.45-12.05: Multilocus Sequence Typing of tropical plant-associated *Pseudomonas aeruginosa*: a genotypic tool for selection of biocontrol strains  
*Dr. A Kumar, IISR, Calicut*

- 12.05-12.15 Potential of Novel Entomopathogenic Bacteria for Control of Pests and Diseases  
*Dr. C Mohandas, CTCRI, Trivandrum*

- 12.15-12.35: Benzo-(1,2,3)-thiadiazole-7-carbothioic acid S-methyl ester (BTH) in enhancing the vitalities of *Bacillus subtilis* B4 for plant growth promotion and Systemic Acquired Resistance in cucumber  
*Dr. Shamarao Jahagirdar, UAS, Dharwad*

- 12.35-12.45: Photochemistry of surface ozone and its significant impact on global radiative transfer  
*Dr. Satheesh Kumar, Kannur University,*

12.45-13.30 **Lunch**

13.30-15.00 **Poster Session II**

- PP – 29 Serological variation among isolates of *Xanthomonas vesicatoria* Causing bacterial spot of tomato in major tomato growing regions of South Karnataka  
*C P Manjula, A N A Khan & V V S Suryanarayana*

- PP – 30 Metalaxyl-mancozeb sensitivity of *Phytophthora capsici* isolates from black pepper (*Piper nigrum* L.)  
*K B Vinitha, M Anandaraj & R Suseela Bhai*

- PP – 31 Isolation of endophytic fungi from black pepper (*Piper nigrum* L.) and evaluation for their biocontrol potential against *Phytophthora capsici*  
*K Sreeja, M Anandaraj & R Suseela Bhai*

- PP – 32 Expression and purification of recombinant sugarcane streak mosaic virus coat protein and production of polyclonal antibodies  
*V Ganesh Kumar, R Karuppaiah, P Malathi & R Viswanathan*
- PP – 33 Seasonal influence of yellow leaf disease expression in sugarcane  
*C Chinnaraja, P Malathi & R Viswanathan*
- PP – 34 Fungal pathogenicity gene expression as a tool to measure defense gene expression during sugarcane and *Colletotrichum falcatum* interaction  
*P Malathi, R Viswanathan, A Arunkumaran & V Ganesh Kumar*
- PP – 35 Exploration of culture dependent fungi of vermicompost origin against *Phytophthora colocasiae* and *Sclerotium rolfsii*  
*S S Veena, M T Gilda, Neetha Soma John, I P Anjanadevi & M L Jeeva*
- PP – 36 Transcript profiling of *Colletotrichum falcatum*-elicitor induced response in sugarcane suspension cells  
*P R Rahul, V Ganesh Kumar, A Ramesh Sundar, P Malathi & R Viswanathan*
- PP – 37 Screening of sorghum genotypes against charcoal rot caused by *Macrophomina phaseolina* Tossi Goid  
*G Girish, S K Jayalakshmi, B D Biradar, S Munniswamy, Dayanad Mahaling, Yamunara, S Kantharaju, P S Dharamraj, J R Patil & D M Mannur*
- PP – 38 Detection of Sweet Potato Feathery Mottle Virus with the polyclonal antiserum produced against the recombinant coat protein of the virus  
*Vinayaka Hegde, Binoy Babu, T Makeshkumar & M L Jeeva*
- PP – 39 Studies on isolation of elicitor and biocontrol of *Phytophthora colocasiae* causing leaf blight of taro  
*Vinayaka Hegde, M Senthil @ Sankar, Vishnu S Nath, M L Jeeva & R S Misra*
- PP – 40 Out break of sterility mosaic disease of pigeonpea (*Cajanus cajan*) in Gulbarga District of Karnataka  
*D M Mahalinga, S K Jayalakshmi, V Kantharaju & P S Dharmaraj*
- PP – 41 Survey on the wilt/root rot disease incidence of chickpea in Gulbarga District of Northern Karnataka  
*S K Jayalakshmi, D M Mahalinga, V Kantharaju & P S Dharmaraj*
- PP – 42 Weather variations on grain mould disease of sorghum in dryland vertisol region of southern region of Tamil Nadu  
*T Saravanan & T Ragavan*

- PP – 43 Management of sett rot of sugarcane  
*K B Yadahalli, S S Adiver, V I Benagi & B C Hanumanthaswamy*
- PP – 44 Management of black rot of cabbage  
*K B Yadahalli, B C Hanumanthaswamy & V I Benagi*
- PP – 45 Ecofriendly management of Asian soybean rust caused by *Phakopsora pachyrhizi* Syd. by botanical pesticides in India  
*Shamarao Jahagirdar, P V Patil, V I Benagi, R H Patil, G T Basavaraj, J A Hosmath & B K Athoni*
- PP – 46 Survey for powdery mildew (*Sphaerotheca pannosa*) disease of rose in Gulbarga District, Karnataka State  
*V Kantharaju, S K Jayalakshmi, G Girish & Dayanand Mahalinga*
- PP – 47 Farmer participatory approaches for improved production technologies in pigeon pea  
*V Kantharaju, Basavaraja, G Raju, Teggelli, D H Patil & G Girish*
- PP – 48 PCR based assay for the detection of *Phomopsis vexans* - the causative agent of leaf blight and fruit rot disease of egg plant (*Solanum melongene* L.)  
*K M Jayaramaiah, K N Amruthesh & G R Janardhana*
- PP – 49 First report of association of *Colletotrichum gloeosporioides* with leaf spot disease of curry leaf and its detection by PCR  
*Midhila Padman & G R Janardhana*
- PP – 50 Evaluation of plant extracts against *Phytophthora capsici*, the foot rot pathogen of black pepper  
*K P Anoop & P P Rajan*
- PP – 51 Antifungal activity of metal complexes of phenyl alanine and phenyl alanine Schiff base  
*G Indira Devi, M Sajith & A C Karthik Varma*
- PP – 52 Evaluation of botanicals on *Ganoderma lucidum* causing basal stem rot of coconut  
*A R Rasmi, V G Ambili & B Rajeaswari*
- PP – 53 Effect of *Andrographis paniculata* Nees and *Lawsonia inermis* L. leaf extracts on *Phytophthora palmivora* causing bud rot disease of coconut  
*A R Rasmi, K Nisha & M Soumya*
- PP – 54 A PCR-based diagnostic assay for the detection of *Phomopsis vexans* in brinjal seeds  
*S Chandra Nayaka, A C Udaya Shankar, S R Niranjana, C N Mortensen & H S Prakash*



PP – 55 Molecular diversity of banana streak virus isolates infecting banana cv. Poovan (AAB)  
*R Selvarajan, K Sivaranjani, Mary Sheeba & V Balasubramanian*

PP – 56 Endophytic fungi induced systemic resistance in brinjal against Phomopsis blight disease caused by *Phomopsis vexans* and its biochemical analysis  
*R Anil Kumar, Heminder Singh, H Rajkumar Garampalli & K N Amruthesh*

15.00-16.00 **Concluding Session**

15.00–15.05 Welcome: Dr. S Devasahayam, IISR, Calicut

15.05–15.40 Report from oral sessions

15.40-15.45: Presentation of best poster awards  
Announcement of short listed candidates in MJN contest

15.40-15.55 Presidential Remarks: Dr. M Anandaraj, President, IPS (Southern Zone)

15.55–16.00 Vote of thanks: Dr. A I Bhat, Organizing Secretary

16.00: **Tea**

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**Note:** 1. Duration of each oral presentation should be restricted to 20 min (15 min Presentation + 5 min discussion)

2. Each MJN contestant will get 15 min for presentation + 5 min for discussion.

3. Plant Protection Forum, IISR, Calicut, has decided to give two awards for best poster presentations. Hence each poster will be evaluated by a committee and all the presenters should be available at their respective posters during the poster sessions.