

INDIAN PHYTOPATHOLOGY

VOL. 57 (1), JANUARY 2004

Presidential Address

Biodiversity, taxonomy, ecology, conservation and biotechnology of arbuscular mycorrhizal fungi
– **C. Manoharachary** 1

Bacteriology

Activation of peroxidase and phenylalanine ammonia lyase in cotton by chemical and biological inducers – **N. Padmaja, J. Gopalakrishnan, J.C. Venketeshwari, R.P. Singh and J.P. Verma** 7

Characterization of *Ralstonia solanacearum* causing bacterial wilt in ginger – **A. Kumar and Y.R. Sarma** 12

Fungal Pathology

Role of enzymes in initiating sexual cycle in different species of *Morchella* – **Shwet Kamal, S.K. Singh and Mugdha Tiwari** 18

Towards an ideal method of inoculation for screening sugarcane genotypes against red rot caused by *Colletotrichum falcatum* – **S.K. Duttamajumder and S.C. Misra** 24

Variation in *Phomopsis azadirachtae*, the incitant of die-back of neem – **Syeda Kousar Fathima, S. Shankara Bhat and K. Girish** 30

Genetics of resistance to stem rust in five bread wheats – **P. Bahadur, Ramcharan, N. Gandhikumar and R. Selvakumar** 34

Management of chickpea wilt through combination of fungicides and bioagents – **R.K. Poddar, D.V. Singh and S.C. Dubey** 39

Suppression of *Fusarium oxysporum* f. sp. *gladioli* populations in soil by application of *Trichoderma virens* and *in vitro* approaches for understanding biological control mechanisms – **P.K. Mishra, A.N. Mukhopadhyay and U.S. Singh** 44

Mulching with transparent polyethylene and root dip in fungicides for the management of collar and root rot of strawberry – **Umang Bhardwaj and Harender Raj** 48

Virology

Detection of DNA A and DNA β associated with cotton leaf curl and some other plant diseases caused by whitefly transmitted geminiviruses – **G. Radhakrishnan, V.G. Malathi and A. Varma** 53

Screening of exotic potato germplasm for resistance to stem necrosis – **A.K. Somani and Jai Gopal** 61

Short Communications

Purification and partial characterization of a phytotoxin produced by *Colletotrichum falcatum* – **D. Mohanraj, P. Padmanaban and M. Karunakaran** 65

Occurrence of tenuazonic acid producing strains of *Alternaria alternata* in natural rots of apple – **Yash Paul Singh and Geeta Sumbali** 68

Variability and anastomosis among the rice isolates of <i>Rhizoctonia solani</i> – A. Basu, Mita Podder and Prasanta K. Sengupta	70
Detection of inter and intraspecific variability among <i>Alternaria</i> isolates using photoacoustic spectroscopy – C.S. Patni, S.J. Kolte and R.P. Awasthi	73
<i>Sclerotinia</i> rot of Indian mustard in Rajasthan – R.P. Ghasolia, Asha Shivpuri and A.K. Bhargava	76
Effect of crop rotation on population dynamics of <i>Ralstonia solanacearum</i> in tomato wilt sick soil – J.P. Sharma and S. Kumar	80
Seed borne infection in sheath blight of rice and its effect on seedling health – S. Acharya, A. Basu, M.K. Sarkar and Prasanta K. Sengupta	82
Diversity of grain mold fungi on selected sorghum genotypes – A.G. Girish, V.P. Rao and R.P. Thakur	84
New pathotype 93R47 of <i>Puccinia recondita</i> f. sp. <i>tritici</i> virulent for Lr26 – S.K. Nayar, Subodh Kumar, M. Prashar and S.C. Bhardwaj	88
Temperature sensitivity and adult plant resistance of some <i>Lr</i> genes in <i>Triticum</i> species – S.K. Nayar, S.C. Bhardwaj, M. Prashar and S.K. Jain	90
Host range of <i>Fusarium pallidoroseum</i> , a potential biocontrol agent of water hyacinth – R. Praveena and A. Naseema	92
Potential of some recently developed fungicides and their combination products for effective management of late blight of potato – T.S. Thind, C. Mohan, J.K. Arora and Prem Raj	95
Fungicidal management of web blight of urdbean – Shailbala and H.S. Tripathi	99
Effect of fungicides and neem extract on mycelial growth and myceliogenic germination of <i>Sclerotinia sclerotiorum</i> – Qais. K. Zewain, P. Bahadur and Pratibha Sharma	101
Activity spectrum of strobilurins, a new generation of eco-fungicides, against some fungal pathogens – T.S. Thind, C. Mohan, Prem Raj and J.K. Arora	104
Management of fruit rot of chilli with different plant products – R.K. Bagri, S.L. Choudhary and P.K. Rai	107
Evaluation of plant extracts in management of <i>Stemphylium</i> blight of onion – S.M. Prasad and M.K. Barnwal	110
Management of <i>Sclerotium</i> root rot of sugarbeet through seed soaking with non-conventional chemicals – Srikanta Das and S.K. Raj	112
Additions to Asterinaceae – V.B. Hosagoudar, C.K. Biju and T.K. Abraham	114
Diagnosis of <i>Tomato leaf curl virus</i> by polymerase chain reaction – Shelly Praveen, M.S. Kulkarni, Subodh K. Sinha and Y.S. Ahlawat	117
Resistance Sources	121
Book Reviews	122