

PLANT DISEASE RESEARCH

VOLUME 29(1)

CONTENTS

Fungal Pathology

- Host plant cultivar, leaf positions and nutrition affect the expression of Marssonina blotch resistance in apple 1
Anil Kumar and J.N. Sharma
- Identification of potent strains of *Trichoderma* showing antagonism to *Rhizoctonia solani* in rice and isolation of partial antifungal chitinase gene 6
P. Vinayak, J.S. Lore, M.S. Hunjan and J.S. Sandhu
- Bio-efficacy of different fungicides in managing blast of rice caused by *Pyricularia grisea* 16
Sukhjinder Singh, Chander Mohan and P.P.S. Pannu
- Variability in single spore isolates of *Fusarium oxysporum* f. sp. *ciceri* 21
Mohan Lal Teterwal, Vinod Kumar Gaur and Jagdish Prasad
- Evaluation of antagonists and natural plant extracts in controlling collar rot of groundnut caused by *Aspergillus niger* 26
T. Rajasekharam and C. Subba Reddy
- Histopathological studies for powdery and downy mildew pathogens of grapevine 33
P. Ahila Devi and V. Prakasam
- Evaluation of botanicals in the management of buckeye rot of tomato 36
Raj Krishan and Y.S. Paul
- In vitro* antagonistic potentials of native *Trichoderma* spp. against stem rot of French bean caused by *Sclerotium rolfsii* in Manipur 41
Y. Rajlakshmi Devi and Bireswar Sinha
- Evaluation of botanicals, cow urine and biocontrol agents against *Rhizoctonia solani* inciting leaf blight of Kalmegh (*Andrographis paniculata*) 46
Sanjeev Ravi, Vishwanath, Santosh Kumar and P. Kumar
- Identification of resistant genotypes and weather effects on disease development in mungbean 50
D.L. Yadav and R.N. Pandey

Bacteriology

- Evaluation of botanicals against *Ralstonia solanacearum* causing bacterial wilt of solanaceous crops 53
Pankaj, A.K. Sood and Pardeep Kumar
- Evaluation of elite breeding lines and some land races for resistance to emerging pathotypes of *Xanthomonas oryzae* pv. *oryzae* 63
Jagjeet Singh Lore and Jyoti Jain
- Present status of bacterial top rot disease of sugarcane in Indian Punjab 68
Binen Kumar Rakesh Yonzone and Ratinderbir Kaur

Virology

Integrated management of seed-borne viruses of tomato through chemicals and dry heat seed treatment 71
S.S. Kang, Abhishek Sharma, Parwinder Singh and P.S. Sandhu

Prevalence of chilli leaf curl disease in Punjab 75
Asif Ahmad Itoo, Abhishek Sharma and S.S. Kang

Nematology

Sources of resistance to *Heterodera avenae* in wheat 80
Jaspreet Singh and Daman Jeet Kaur

Short Communications

Impact of planting time on grain yield and neck blast incidence in tall and semi dwarf genotypes of *basmati* rice (*Oryza sativa*) 85
Mangat Ram and Ram Singh

A novel technique for isolation of *Phytophthora nicotianae* var. *parasitica* from infested soils 88
G.S. Sidhu, H.S. Rattanpal and C. Mohan

Comparative growth, cultural characteristics of *Sclerotium rolfsii* isolates from selected locations of Tamil Nadu 91
A. Muthukumar, R. Naveenkumar and A. Venkatesh

Management of collar rot of groundnut caused by *Aspergillus niger* 93
Sushil Sharma and Rakesh Mehra

Assessment of mungbean genotypes for resistance to yellow mosaic and crinkle diseases 95
Sushil Sharma and Rakesh Mehra

Alternate method for management of groundnut collar rot (*Aspergillus niger*) 97
T. Rajasekharam and C. Subba Reddy

Interaction of *Meloidogyne incognita* and *Fusarium oxysporum* f. sp. *melonis* in muskmelon wilt 100
Harjot Singh, N.K. Dhillon and Jaspal Kaur

Utilization of native strains of bioagents for ecofriendly management of black scurf of potato 103
Narinder Singh, Paramdeep Singh and Moumita Ghosh

Phytophthora fruit rot of pomegranate – a new report from Himachal Pradesh 105
Kishore Khosla and A.K. Gupta

PCR based detection of latent infection of *Puccinia striiformis* f. sp. *tritici* in wheat 108
Sunil Kumar, P.P.S. Pannu and N.S. Bains

Management of grapevine downy mildew by new fungicide molecule upf 509 (azoxystrobin 8.3 % w/w + mancozeb 64.75 w/w) along with *Pseudomonas fluorescens* 112
K. Vinothini, P. Ahila Devi and V. Prakasam

Evaluation of French bean germplasm against bean rust (*Uromyces appendiculatus*) 115
Neeraj Sharma, S.K. Gupta, N.K. Bharat and Monica Sharma