

CONTENTS

Number 5

Articles

- Production of extracellular proteins, cellulases and antifungal metabolites by *Chaetomium globosum* Kunze ex. Fr.  
*V. Shanthiyaa, G. Karthikeyan and T. Raguchander* 517
- Host plant resistance of different chickpea genotypes against *Ascochyta rabiei* (Pass.) Lab. under tunnel conditions  
*M. Umar Shahbaz, M. Azhar Iqbal, Azhar Mustafa, M. Intizar ul-Hassan and Faiz Ahmad Faiz* 529
- Diversity of fungal endophytes in some medicinal plants of Himachal Pradesh, India  
*Ajay Kumar Gautam* 537
- The role of epiphytic *Pseudomonas* and *Pantoea* population diversity on prevalence of fire blight disease  
*Roghayeh Habibi and Saeed Tarighi* 545
- Threshold temperature and heat unit requirements for the development of the granary weevil, *Sitophilus granarius* (L.)  
*Youssef M. Omar, Youssef A. Darwish, Rasmy E. Hassan and Mahmoud A. Mahmoud* 555
- Antifungal activity of essential oils and their combinations in *in vitro* and *in vivo* conditions  
*Mysore Gopal Tejeswini, Hebbale Vasanth Sowmya, Shimoga Prabhakar Swarnalatha and Pradeep Singh Negi* 564
- Suppression of root rot of mung bean (*Vigna radiata* L.) by *Streptomyces* sp. is associated with induction of peroxidase and polyphenol oxidase  
*M. Adhilakshmi, V. Paranidharan, D. Balachandar, K. Ganesamurthy and R. Velazhahan* 571
- Phylloplane microfungus metabolite influences activity of RuBisCO  
*Joyeeta Mitra, A.N. Sahi and P.K. Paul* 584
- Studies on the nematicidal activity of stinging nettle (*Urtica dioica*) on plant parasitic nematodes  
*Mostafa Nasiri, Kourosh Azizi, Habiballah Hamzehzarghani and Reza Ghaderi* 591
- Environmentally safe substances for controlling the root-knot nematode, *Meloidogyne arenaria* infested potato and their influence on yield and alkaloidal content in Egypt  
*A.E. Ismail, S.A. Mahfouz, M.M. Mohamed, Rasmia A. Hassan and Lobna M. Abou-Setta* 600
- Virulence of some native *Bacillus thuringiensis* isolates against *Ephestia kuehniella* (Zeller) (Lep., Pyralidae) and *Pieris brassicae* (Lep., Pieridae) larvae isolated from stored products of Urmia city  
*Fahimeh Khodabandeh, Mohamad Hassan Safaralizadeh, Seyed Ali Safavi and Shahram Aramideh* 610
- Biological control of root-knot nematode (*Meloidogyne javanica*) disease by *Pseudomonas fluorescens* (Chao)  
*Maryem Tavakol Norabadi, Navazollah Sahebani and Hassan Reza Etebarian* 615

Interaction between <i>Meloidogyne incognita</i> and <i>Pochonia chlamydosporia</i> and their effects on the growth of <i>Phaseolus vulgaris</i> <i>Rushda Sharf, Hisamuddin Shiekh, Abbasi Syed, Ambreen Akhtar and M.I. Robab</i>	622
Bionomics and control of the broad mite <i>Polyphagotarsonemus latus</i> (Banks) (Acari: Tarsonemidae) <i>Badawi A. Abou-Awad, Sherif M. Hafez and Basem M. Farahat</i>	631
<b>Number 6</b>	
<b>Articles</b>	
Understanding syntonic relationship of foliar diseases of green gram with weather variables <i>Livinder Kaur, K.K. Gill, P.K. Kingra and Asmita Sirari</i>	643
Investigating biological control of soil-borne <i>Streptomyces</i> sp. on <i>Phoma glomerata</i> <i>B. Sadeghy and N. Hatami</i>	652
Using aerated compost tea in comparison with a chemical pesticide for controlling rose powdery mildew <i>Samir Seddigh, Leila Kiani, Bahram Tafaghodinia and Bahareh Hashemi</i>	658
Studies on the parasitoid <i>Opius concolor</i> Szepliget (Hymenoptera: Braconidae), associated with zizyphus fruit fly, <i>Carpomyia incompleta</i> Becker (Diptera: Tephritidae) <i>Farouk A. Abdel-Galil, Moustafa M.A. Rizk, Sobhy A.H. Temerak and Dalia Y.A. Darwish</i>	665
A possible new approach for controlling root knot nematode, <i>Meloidogyne incognita</i> , infecting eggplant by certain insect growth regulators <i>Asmahan M.S. Lashein, K.H. Sabry and M.M.A. Youssef</i>	675
Bottom-up and top-down effects in a tritrophic system: the population fluctuations of <i>Plutella xylostella</i> and its parasitoid, <i>Oomyzus sokolowskii</i> on the cauliflower cultivars in field conditions <i>Gholamhosein Hasanshahi, Jaber Karimi, Fatemeh Jahan, Habib Abbasipour, Alireza Askarianzade and Ali Hossein Rahimi</i>	681
Nucleic acid based detection technique for <i>Ganoderma lucidum</i> in coconut <i>L. Rajendran, R. Akila, G. Karthikeyan, T. Raguchander, D. Saravanakumar and R. Samiyappan</i>	690
Influence of cover crops and tillage systems on nematode populations in a maize-cover crop intercrop <i>M.O. Jibrin, H.M. Lawal and P.S. Chindo</i>	703
The effect of different conditions of temperature and acidity on antimicrobial metabolites of <i>Streptomyces</i> sp. isolates C-11 and C-26 against <i>F. subglutinans</i> <i>B. Sadeghy and N. Hatami</i>	711
Pome and stone fruit trees as possible reservoir hosts for <i>Phaeoacremonium</i> spp., the causal agents of grapevine esca disease, in Iran <i>Mahdi Arzanlou, Abolfazl Narmani, Sima Khodaei and Somayeh Moshari</i>	717
Morphological variability in <i>Rhizoctonia solani</i> isolates from different agro-ecological zones of West Bengal, India <i>S.P. Kuiry, A. Mondal, S. Banerjee and S. Dutta</i>	728
Interaction of soil microbes with mycorrhizal fungi in tomato <i>Meenakshi Singh, Deepak Vyas and Pradeep Kumar Singh</i>	737
Effects of <i>Pseudomonas fluorescens</i> strain UTPF5 on the mobility, mortality and hatching of root-knot nematode <i>Meloidogyne javanica</i> <i>Negar Bagheri, Masoud Ahmadzadeh and Ramin Heydari</i>	744
Rapid isolation of DNA from <i>Dioscorea</i> species suitable for PCR, restriction digestion and pathogen screening <i>Mithun Raj, Vishnu S. Nath, M. Senthil @ Sankar, M.L. Jeeva and Vinayaka Hegde</i>	753

- Evaluation of legume intercrops on the population dynamics and damage level of burrowing nematode (*Radopholus similis*) in banana (*Musa* spp.)  
James Chitamba, Pepukai Manjeru, Cleopas C. Chinheya and Maxwell Handiseni 761

## Number 7

### Articles

- A preliminary study of biological control of citrus gummosis by soil-borne *Streptomyces* sp. isolates *in vitro* condition  
B. Sadeghy, M. Salari, G.H. Shahidi Bonjar, N. Panjekeh and M. Aminnaee 774
- Phenotypic variation of *Rhizoctonia oryzae* in sheath disease of rice in Myanmar  
Masaru Matsumoto and Seint San Aye 780
- A comparative screening of hybrid, modern varieties and local rice cultivar for brown leaf spot disease susceptibility and yield performance  
Md. Motaher Hossain, Farjana Sultana and Abu Hadi Md. Asadur Rahman 795
- Factors affecting symptoms expression in cowpea bacterial blight *Xanthomonas axonopodis* pv. *vignicola* (Burkholder) Dye  
Umoru S. Amodu and Dominic A. Akpa 803
- Effect of natural seed-borne inoculum of *Bipolaris sorokiniana* on the seedling emergence and vigour, and early establishment of foliar blight in spring wheat  
R.R. Burlakoti, S.M. Shrestha and R.C. Sharma 812
- The fruit fly scourge: has Zimbabwe been spared?  
Handsen Tibugari, Fradrick Arthur Musendo, Sommerset Mhungu, Ronald Mandumbu and Kufa Mutsengi 821
- Serological and molecular properties of isolates of *Bean common mosaic virus*-BCMV from Khorasan Razavi province  
Maryam Musavi, Nooh Shahraeen, Abdolbaset Azizi and Negisa Salari 830
- Analysis of internal transcribed spacer (ITS) region of *Phytophthora tropicalis* causing quick wilt disease of black pepper in Vietnam  
Pham Ngoc Dung, Ha Viet Cuong, Nguyen Van Tuat and Masaru Matsumoto 842
- Investigation of sex ratio and adult longevity of *Habrobracon hebetor* Say in relation to some conventional and biorational insecticides  
Manigheh Jamshidi Kalajahi, Gadir Nouri Ganbalani, Mohammad H. Kazemi, Mahmood Shojai and Sohrab Imani 852
- Survival, development and reproduction of *Euseius finlandicus* (Oudemans) (Acari: Phytoseiidae) fed on various kinds of food substances  
G.M. Abou-Elella, M.F. Hassan, M.S. Nawar and I.M. Zidan 857
- Evaluation of the host response of lowland and upland rice varieties from Myanmar to the rice root-knot nematode *Meloidogyne graminicola*  
P.P. Win, P.P. Kyi, Z.T.Z. Maung and D. De Waele 869
- Antibacterial activity of herbal extracts against five plant pathogenic bacteria  
Manasi K. Bhagwat and Ajit G. Datar 892

## Number 8

### Articles

- Sublethal effects of essential oil of *Cinnamomum zeylanicum* Blume on life expectancy ( $e_x$ ) and age-specific fertility ( $m_x$ ) of two-spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae)  
Roya Rezaei, Jaber Karimi, Habib Abbasipour and Alireza Askarianzadeh 900
- Current status of *Potyvirus* in India  
Pooja Sharma, Anurag Kumar Sahu, Rakesh Kumar Verma, Ritesh Mishra, D.K. Choudhary and R.K. Gaur 906
- Biochemical, physiological and molecular characteristics of chickpea rhizobacteria from Kurdistan province, Iran  
Amir Koohi, Gholam Khodakaramian and Doostmorad Zafari 919

Impact of biocontrol agents in combination with <i>Prosopis juliflora</i> (Swartz) DC. in controlling the root-infecting fungi of leguminous crops <i>Naheed Ikram and Shahnaz Dawar</i>	930
Screening of chickpea ( <i>Cicer arietinum</i> L.) varieties against <i>Ascochyta</i> blight and its management through biopesticides <i>Abdul Rashid, Muhammad Usman Younas, Muhammad Ehetisham-ul-Haq, Muhammad Farooq, Iftikhar Hussain Waris, Ejaz Perveez, Faqir Ahmad, Muhammad Ltif and Masood Ahmad</i>	938
Susceptibility assessment of bell pepper genotypes to crown and root rot disease <i>Mehdi Nasr Esfahani, Abbas Nasehi, Pegah Rahmanshirazi, Hajar Ghadirian and Farnaz Abed Ashtiani</i>	944
Screening biological activities of soil-borne <i>Streptomyces</i> sp. against several phytopathogenic fungi <i>B. Sadeghy and N. Hatami</i>	954
<b>Research Article</b>	
Antifungal activity of herbal extracts against plant pathogenic fungi <i>Manasi K. Bhagwat and Ajit G. Datar</i>	959
<b>Articles</b>	
Effect of cold storage of pupae parasitoid wasp, <i>Habrobracon hebetor</i> (Say) (Hymenoptera: Braconidae), on its efficiency <i>Zahra Mousapour, Alireza Askarianzadeh and Habib Abbasipour</i>	966
Behaviour of <i>Heterodera zea</i> under stress of corn genotype in Egypt <i>A.E. Ismail and A.M. Kheir</i>	973
Effect of oil-formulated <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> against the rice leaf folder <i>Cnaphalocrocis medinalis</i> Guenée (Lepidoptera: Pyralidae) <i>Suyambulingam Arunachalam Kirubakaran, Subbiah Sathish-Narayanan, Kannan Revathi, Rajamanickam Chandrasekaran and Sengottayan Senthil-Nathan</i>	977
Assessment of <i>Sitotroga cerealella</i> losses in different sorghum varieties under controlled conditions <i>Shehzad Hassan, Munir Ahmad and Muhammad Aslam</i>	993
Plant parasitic nematodes associated with ornamental plant <i>Pseuderanthemum atropurpureum</i> in Aligarh district of western Uttar Pradesh <i>Mucksood Ahmad Ganaie and Tabreiz Ahmad Khan</i>	1000
Efficacy of <i>Elettaria cardamomum</i> L. (Zingiberaceae) essential oil on the two spotted spider mite, <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae) <i>Samaneh Fatemikia, Habib Abbasipour, Jaber Karimi, Ayatallah Saeedizadeh and Aziz Sheikhi Gorjan</i>	1008
Bio-efficacy of some leaf extracts on the inhibition of egg hatching and mortality of <i>Meloidogyne incognita</i> <i>Mohd Asif, Kavita Parihar, Bushra Rehman, Mohd Ashraf Ganai, A. Usman and Mansoor A. Siddiqui</i>	1015