

Contents

Rapid and easy modified plate-based screening methods for quantitative and qualitative detection of protease production by fungi <i>K. Karimi, A. Narmani, I. Pertot and M. Arzanlou</i>	1
Effect of the number of years of soil exploitation by saffron cultivation in Morocco on the diversity of endomycorrhizal fungi <i>El Aymani, S. El Gabardi, M. Artib, M. Chliyeh, K. Selmaoui, A. Ouazzani Touhami, R. Benkirane and A. Douira</i>	9
Molecular detection of grape decline phytoplasma in leafhopper species associated with infected grapevines in Iran <i>M. G. Zamharir, F. Mozaffarian and A. Hosseini-Gharalari</i>	25
Rhizobacteria-mediated induced resistance in barley against <i>Cochliobolus sativus</i> under field conditions <i>A. Adam, M. I. E. Arabi, I. Edris and E. Al-Shehadah</i>	35
Changes in <i>PR2</i> and <i>PAL</i> patterns in barley challenged with leaf stripe (<i>Pyrenophora graminea</i>) and powdery mildew (<i>Blumeria graminis</i>) diseases <i>A. Al-Daoude, H. Alek, M. Jawhar, E. Al-Shehadah, A. Shoiab and M. I. E. Arabi</i>	43
Characterization of <i>Bacillus</i> isolates from the rhizosphere of tomato suppressing <i>Fusarium</i> wilt disease <i>M. Kamali, J. Ahmadi, S. Naeimi and D. Guo</i>	53
INSECT PESTS	
The biology of <i>Sesamia inferens</i> (Walker) (Lepidoptera: Noctuidae) on maize in the north western plains of India <i>K. Viswajyothi, N. Aggarwal and J. Jindal</i>	69
Fly fauna of livestock' s of Marvdasht County of Fars Province in the South of Iran <i>A. Ansari Pour, S. Tirgari, J. Shakarami, S. Imani and A. F. Dcusti</i>	85
Relationship between hydrogenionic potential (pH) of protein-based baits and attraction of the mediterranean fruit fly, <i>Ceratitidis capitata</i> (Wiedemann) <i>N. M. Ghanim and M. M. El-Metwally</i>	99
Gall-inducing aphids (Hemiptera: Aphidoidea: Eriosomatinae) associated with Salicaceae and Ulmaceae in Razavi Khorasan Province, with new records for fauna of Iran <i>A. Najmi, H. S. Namaghi, S. Barjadze and L. Fekrat</i>	113

Screening some common molecular markers and a desaturase marker, linked to sex pheromone biosynthesis, in three Z-strain and an E-strain populations of the European corn borer, <i>Ostrinia nubilalis</i> , occurring in Central Europe <i>G. Bozsik, A. Lakatos, G. Szőcs and I. Tóbiás</i>	127
Improving bisexual lures for the silver Y moth <i>Autographa gamma</i> L. and related plusiinae (Lepidoptera: Noctuidae) <i>M. Tóth, P. Landolt, I. Szarukán, A. Nagy and J. K. Jósvai</i>	137
Insecticide toxicity, synergism and resistance in <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) <i>A. Soleymanzade, F. Khorrami and M. Forouzan</i>	147

Contents

DISEASES

- Quantitative and qualitative estimation of Moroccan *Trichoderma* isolates capacity to solubilize rock phosphate
S. Kribel, S. Qostal, A. Ouazzani Touhami, K. Selmaoui, A. Mouria, R. Benkirane, El. H. Achbani and A. Douira 157
- Soil application of *Bacillus thuringiensis* Berliner isolates against root-knot nematode (*Meloidogyne javanica* (Treub) Chitwood) in okra (*Abelmoschus esculentus* (L.) Moench)
M. W. Abbasi, M. Q. Khan, M. J. Zaki, S. S. Shaukat, A. Rauf, N. Ahmed, M. Azeem and M. Tariq 173
- Screening of barley breeding lines for resistance to common root rot disease through incidence and severity parameters
M. I. E. Arabi, E. Al-Shehadah and M. Jawhar 187
- Viability and pathogenicity of *Rhynchosporium secalis* after long-term storage
M. I. E. Arabi, H. Alek, E. Al-Shehadah and M. Jawhar 195
- Molecular study of a phytoplasma associated with safflower fasciation in Iran
H. Mahmoudi, M. Salari, M. Ghayeb Zamharir and M. Ghorbani 203
- Effect of different inoculum levels of *Meloidogyne incognita*, *Alternaria dauci* and *Rhizoctonia solani* on the growth, chlorophyll and carotenoid content and disease progression of carrot (*Daucus carota* L.)
L. Ahmad and Z. A. Siddiqui 211
- The occurrence of grapevine rugose wood disease in Algeria
A. Bachir, I. Selmi, A. Lehad, M. Louanchi and N. Mahfoudhi..... 221

INSECT PESTS

- In search of co-attractants for cetoniin scarabs (Coleoptera: Scarabaeidae, Cetoniinae): Identification and preliminary field evaluation of volatiles from fermenting apple
J. Vuts, Zsófia Lohonyai, Z. Imrei, Éva Bálintné Csonka, M. A. Birkett and M. Tóth 229
- Cuminum cyminum* methanolic extract – Fe₃O₄ nanocomposite: A novel and efficient insecticide against the potato tuber moth (Lepidoptera: Gelechiidae) to protect potatoes
F. Khorrami, K. Ojaghi Aghbash, A. Soleymanzade, M. Forouzan and Y. Ghosta 243
- The lesser wax moth *Achroia grisella* (Lepidoptera: Pyralidae): A new diet for rearing three predatory mites of the family Phytoseiidae
M. F. Hassan, F. M. Momen, S. S. Moawad and M. Lamlom..... 253

Control of the root-knot nematode <i>Meloidogyne incognita</i> and weeds in protected cucumber with dimethyl disulfide (DMDS) over two crop cycles: The first results in Hungary <i>F. Tóth, Franciska Tóthné Bogdányi, Renáta Petrikovszki, Anita Gódor, M. Zalai, B. Bálint, P. Sunder and A. Myrta</i>	267
First report on the effect of aqueous extracts of Hungarian organic mulch materials on entomopathogenic and slug-parasitic nematodes <i>Renáta Petrikovszki, Franciska Tóthné Bogdányi, F. Tóth and P. Nagy</i>	279