

## INDEX OF VOLUME 51 (2015)

ADAMČÍKOVÁ K., ONDRUŠKOVÁ E., KÁDASI-HORÁKOVÁ M., BOTU M., KOBZA M., ACHIM G.: Distribution and population structure of the chestnut blight fungus in Romania .....	141
AULICKÝ R., STEJSKAL V.: Efficacy and limitations of phosphine “spot-fumigation” against five Coleoptera species of stored product pests in wheat in a grain store – short note .....	33
BAGHAE RAVARI S., MAHDIKHANI MOGHADDAM E.: Efficacy of <i>Bacillus thuringiensis</i> Cry14 toxin against root knot nematode, <i>Meloidogyne javanica</i> .....	46
DEGANI O.: <i>Cochliobolus heterostrophus</i> T-toxin gene expression modulation via G protein and MAPK pathways .....	53
DREISEITL A.: Changes in virulence frequencies and higher fitness of simple pathotypes in the Czech population of <i>Blumeria graminis</i> f.sp. <i>hordei</i> .....	67
DRENKHAN R., ADAMSON K., HANSO M.: <i>Fraxinus sogdiana</i> , a Central Asian ash species, is susceptible to <i>Hymenoscyphus fraxineus</i> .....	150
EL-SHARABASY H.M.: Laboratory evaluation of the effect of the entomopathogenic fungi, <i>Hirsutella</i> <i>thompsonii</i> and <i>Paecilomyces fumosoroseus</i> , against the citrus brown mite, <i>Eutetranychus orientalis</i> (Acari: Tetranychidae) .....	39
EMSEN B., YILDIRIM E., ASLAN A.: Insecticidal activities of extracts of three lichen species on <i>Sitophilus granarius</i> (L.) (Coleoptera: Curculionidae) .....	156
EYVAZI A., DIZADJI A., RASTGOU M., KOOHI HABIBI M.: Bioassay and phylogeny of five Iranian isolates of <i>Cucumber mosaic virus</i> from different hosts based on CP gene sequence .....	200
GAO Y.-H., MIAO W., GUO R.-J., LI S.-D.: Real time PCR quantification of <i>Sclerotium rolfsii</i> in chilli tissue and soil .....	61
GUL-SEKER M., EKINCI H., OZTURK C., ELIBUYUK I.O.: Current situation of tomato yellow leaf curl disease (TYLCD) in Antalya, Turkey .....	208
HOLLOMON D.W.: Fungicide resistance: facing the challenge – a review .....	170
ILI NADHRAH N., NULIT R., NURRASHYEDA R., IDRIS A.S.: Effect of formulated bioorganic containing <i>Burkholderia</i> GanoEB2 in suppressing <i>Ganoderma</i> disease in oil palm seedlings .....	80
JERKOVIĆ Z., PRIJIĆ Ž., JEVIĆ R., LALOŠEVIĆ M.: Interaction of two neonicotinoid insecticides and <i>Lr</i> genes focusing wheat growth and residues .....	108
JURSÍK M., SOUKUP J., HOLEC J., ANDR J., HAMOUZOVÁ K.: Efficacy and selectivity of pre-emergent sunflower herbicides under different soil moisture conditions .....	214
KOÇ E.: Exogenous application of spermidine enhanced tolerance of pepper against <i>Phytophthora</i> <i>capsici</i> stress .....	127
KOLLÁR J., BAKAY L.: The Currant Clearwing moth <i>Synanthedon tipuliformis</i> (Clerck, 1759) as a new pest for pawpaw ( <i>Asimina triloba</i> L.) in Slovakia – short communication .....	153
KUNDU J.K., GADIOU S., SCHLESINGEROVÁ G., DZIAKOVÁ M., ČERMÁK V.: Emergence of quarantine <i>Tobacco ringspot virus</i> in <i>Impatiens walleriana</i> in the Czech Republic .....	115
LEADBEATER A.: Recent developments and challenges in chemical disease control – a review .....	163

LOBIN K.K., SVOBODA J., LEBEDA A., DHOOKY D.Y., BENIMADHU S.P.: <i>Cucumber mosaic virus</i> causal pathogen of oily spots on cucumber cv. Locale fruits in Mauritius – short communication .....	123
MIRMAJLESSI S.M., LOIT E., MÄND M., MANSOURIPOUR S.M.: Real-time PCR applied to study on plant pathogens: potential applications in diagnosis – a review .....	177
NEDĚLNÍK J., STREJČKOVÁ M., SABOLOVÁ T., CAGAŠ B., BOTH Z., PALICOVÁ J., HORTOVÁ B.: First report of <i>Fusarium poae</i> associated with and/or causing silvertop on loloid-type <i>Festulolium</i> in the Czech Republic .....	136
ÖZER G., BAYRAKTAR H.: Determination of fungal pathogens associated with <i>Cuminum cyminum</i> in Turkey .....	74
SEDLÁK J., PAPRŠTEIN F., KORBA J., ŠILEROVÁ J.: Development of a system for testing apple resistance to <i>Erwinia amylovora</i> using <i>in vitro</i> culture techniques .....	1
SEIDENGLANZ M., POSLUŠNÁ J., ROTREKL J., KOLAŘÍK P., HRUDOVÁ E., TÓTH P., HAVEL J., SPITZER T., BERNARDOVÁ M.: Changes in <i>Meligethes aeneus</i> (Coleoptera: Nitidulidae) susceptibility to lambda-cyhalothrin in the Czech Republic between 2009 and 2011 .....	13
SEIDENGLANZ M., POSLUŠNÁ J., ROTREKL J., KOLAŘÍK P., HRUDOVÁ E., TÓTH P., HAVEL J., BERNARDOVÁ M.: <i>Meligethes aeneus</i> (Coleoptera: Nitidulidae) resistance to lambda-cyhalothrin in the Czech Republic in 2012 and 2013 .....	94
SEVIK M.A., BALKAYA A.: Seed transmissibility of viruses in winter squash landraces collected from the Black Sea region of Turkey .....	195
SOLGI T., MORADYAR M., ZAMANI M.R., MOTALLEBI M.: Transformation of canola by <i>chit33</i> gene towards improving resistance to <i>Sclerotinia sclerotiorum</i> .....	6
SPITZER T., MÍŠA P., BÍLOVSKÝ J., KAZDA J.: Management of maize stand height using growth regulators .....	223
STEJSKAL V., HONĚK A.: Is species diversity of various crop “pest taxa” proportionate to efforts paid to their research? A scientometric analysis in the Czech Republic – short note .....	191
TÓTHOVÁ M., BOKOR P., CAGÁŇ L.: The first detection of leafhopper <i>Scaphoideus titanus</i> Ball (Hemiptera, Cicadellidae) in Slovakia .....	88
LIST OF REVIEWERS 2014 .....	I

## AUTHOR INDEX

- ADAMČÍKOVÁ K. ... 141  
ADAMSON K. ... 150  
ACHIM G. ... 141  
ANDR J. ... 214  
ASLAN A. ... 156  
AULICKY R. ... 33
- BAGHAE RAVARI S. ... 46  
BAKAY L. ... 153  
BALKAYA A. ... 195  
BAYRAKTAR H. ... 74  
BENIMADHU S.P. ... 123  
BERNARDOVÁ M. ... 13, 94  
BÍLOVSKÝ J. ... 223  
BOKOR P. ... 88  
BOTH Z. ... 136  
BOTU M. ... 141
- CAGÁŇ L. ... 88  
CAGAŠ B. ... 136  
ČERMÁK V. ... 115
- DEGANI O. ... 53  
DHOOKY D.Y. ... 123  
DIZADJI A. ... 200  
DREISEITL A. ... 67  
DRENKHAN R. ... 150  
DZIAKOVÁ M. ... 115
- EKINCI H. ... 208  
ELIBUYUK I.O. ... 208  
EL-SHARABASY H.M. ... 39  
EMSEN B. ... 156  
EYVAZI A. ... 200
- GADIOU S. ... 115  
GAO Y.-H. ... 61  
GUL-SEKER M. ... 208  
GUO R.-J. ... 61
- HAMOYZOVÁ K. ... 214  
HANSO M. ... 150  
HAVEĽ J. ... 13, 94  
HOLEC J. ... 214  
HOLLOMON D.W. ... 170
- HONĚK A. ... 191  
HORTOVÁ B. ... 136  
HRUDOVÁ E. ... 13, 94
- IDRIS A.S. ... 80  
ILI NADHRAH N. ... 80
- JERKOVIĆ Z. ... 108  
JEVTIĆ R. ... 108  
JURSÍK M. ... 214
- KÁDASI-HORÁKOVÁ M. ... 141  
KAZDA J. ... 223  
KOBZA M. ... 141  
KOÇ E. ... 127  
KOLAŘÍK P. ... 13, 94  
KOLLÁR J. ... 153  
KOOHI HABIBI M. ... 200  
KORBA J. ... 1  
KUNDU J.K. ... 115
- LALOŠEVIĆ M. ... 108  
LEADBEATER A. ... 163  
LEBEDA A. ... 123  
LI S.-D. ... 61  
LOBIN K.K. ... 123  
LOIT E. ... 177
- MAHDIKHANI MOGHADDAM E. ... 46  
MÄND M. ... 177  
MANSOURIPOUR S.M. ... 177  
MIAO W. ... 61  
MIRMAJLESSI S.M. ... 177  
MÍŠA P. ... 223  
MORADYAR M. ... 6  
MOTALLEBI M. ... 6
- NEDĚLNÍK J. ... 136  
NULIT R. ... 80  
NURRASHYEDA R. ... 80
- ONDROŠKOVÁ E. ... 141  
ÖZER G. ... 74  
OZTURK C. ... 208

PALICOVÁ J. ... 136	SOLGI T. ... 6
PAPRŠTEIN F. ... 1	SOUKUP J. ... 214
POSLUŠNÁ J. ... 13, 94	SPITZER T. ... 13, 223
PRIJIĆ Ž. ... 108	STEJSKAL V. ... 33, 191
	STREJČKOVÁ M. ... 136
RASTGOU M. ... 200	SVOBODA J. ... 123
ROTREKL J. ... 13, 94	
	TÓTHOVÁ M. ... 88
SABOLOVÁ T. ... 136	TÓTH P. ... 13, 94
SEDLÁK J. ... 1	
SEIDENGLANZ M. ... 13, 94	YILDIRIM E ... 156
SEVIK M.A. ... 195	
SCHLESINGEROVÁ G. ... 115	ZAMANI M.R. ... 6
ŠILEROVÁ J. ... 1	

## AUTHOR INSTITUTION INDEX

### **Czech Republic**

- Agricultural Research, Ltd., Troubsko ..... 13, 94, 136  
Agritec Plant Research Ltd., Šumperk ..... 13, 94  
Agrotest fyto Ltd., Kroměříž ..... 13, 67, 223  
Central Institute for Supervising and Testing in Agriculture, Division of Diagnostics, Olomouc ..... 115  
Crop Research Institute, Prague  
    Division of Crop Management System ..... 33  
    Division of Crop Protection and Plant Health ..... 1,115, 123, 191, 136  
Czech University of Life Sciences Prague, Faculty of Agrobiolgy, Food and Natural Resources,  
Prague ..... 214, 223  
Grassland Research Station at Rožnov-Zubří, OSEVA Development and Research Ltd., Zubří ..... 136  
Mendel University in Brno, Faculty of Agronomy, Department of Crop Science, Breeding  
and Plant Medicine, Brno ..... 13, 94  
OSEVA Development and Research Ltd., Opava ..... 13, 94  
Palacký University Olomouc, Faculty of Science, Department of Botany, Olomouc ..... 123  
Research and Breeding Institute of Pomology Holovousy Ltd., Hořice ..... 1  
Trial Station Kluky Ltd., Kluky u Písku ..... 13, 94

### **Egypt**

- Suez Canal University, Faculty of Agriculture, Plant Protection Department, Ismailia ..... 39

### **Estonia**

- Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Tartu  
    Department of Field Crops and Grassland Husbandry ..... 177  
    Department of Plant Protection ..... 177  
Institute of Forestry and Rural Engineering (IFRE) ..... 150

### **Iran**

- Ferdowsi University of Mashhad, Faculty of Agriculture, Department of Crop Protection, Mashhad ... 46  
National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran ..... 6  
University of Tehran, University College of Agriculture and Natural Resources,  
    Faculty of Agricultural Sciences & Engineering, Department of Plant Protection, Karaj ..... 200  
Urmia University, Faculty of Agriculture, Department of Plant Protection, Urmia ..... 200

### **Israel**

- Migal – Galilee Research Institute, Kiryat Shmona ..... 53  
Tel-Hai College, Upper Galilee ..... 53

### **Mauritius**

- Food and Agricultural Research and Extension Institute (FAREI), Plant Pathology Division, Reduit ..... 123

### **Malaysia**

- Ganoderma and Disease Research for Oil Palm (GanoDROP) Unit, Biological Research Division,  
    Malaysia Palm Oil Board, Bandar Baru Bangi, Kajang, Selangor ..... 80  
Universiti Putra Malaysia, Faculty of Science, Department of Biology, Serdang, Selangor ..... 80

**P.R. China**

Chinese Academy of Agricultural Sciences, Key Laboratory of Pest Management in Crops of the Ministry of Agriculture, Institute of Plant Protection, Beijing .....	61
Xiangyan Seed Co., Changsha, Hunan .....	61

**Romania**

University of Craiova SCDP Valcea, Valcea .....	141
Faculty of Agriculture and Horticulture, Department of Horticulture and Food Science, Craiova .....	141

**Serbia**

Institute of Field and Vegetable Crops, Novi Sad .....	108
--	-----

**Slovak Republic**

Institute of Forest Ecology, Slovak Academy of Sciences Zvolen, Branch for Woody Plants Biology, Nitra .....	141
Slovak Agricultural University in Nitra, Nitra Faculty of Agrobiolgy and Food Resources, Department of Plant Protection .....	88
Faculty of Horticulture and Landscape Engineering, Department of Planting Design and Maintenance .....	153

**Switzerland**

Syngenta Crop Protection AG, Basel .....	163
--	-----

**Turkey**

Gebze Institute of Technology, Department of Molecular Biology and Genetics, Kocaeli .....	208
Ondokuz Mayıs University, Faculty of Agriculture, Samsun Department of Horticulture .....	195
Department of Plant Protection .....	195
Karamanoğlu Mehmetbey University, Kamil Özdağ Faculty of Science, Department of Biology, Karaman .....	156
Abant İzzet Baysal University, Faculty of Agriculture and Natural Sciences, Department of Plant Protection, Bolu .....	74
Ankara University, Ankara Faculty of Agriculture, Department of Plant Protection .....	74, 208
Faculty of Science, Department of Biology .....	127
Atatürk University, Erzurum Faculty of Agriculture, Department of Plant Protection .....	156
Kazım Karabekir Faculty of Education, Department of Biology Education .....	156

**UK**

Orchard House, Bristol .....	170
------------------------------	-----

**USA**

North Dakota State University, Department of Plant Pathology, Fargo .....	177
---	-----

## SUBJECT INDEX

## A

- abiotic factor . . . . . 214  
 adult vial test . . . . . 13, 94  
*Alternaria* spp. . . . . 74  
 American grapevine leafhopper . . . . . 88  
 amine oxidase . . . . . 127  
 antifungal activity . . . . . 6  
 artificial inoculation . . . . . 1  
*Asimina triloba* L. . . . . 153

## B

- Bacillus thuringiensis* Cry14 toxin . . . . . 46  
 bacteria . . . . . 177  
 barley powdery mildew . . . . . 67  
 bioassay . . . . . 39, 200  
 biological control . . . . . 39  
 bioorganic empty fruit bunch (BEFB) . . . . . 80  
 blight . . . . . 74  
*Blumeria graminis* f.sp. *hordei* . . . . . 67  
*Brassica napus* . . . . . 6  
*Burkholderia* GanoEB2 . . . . . 80

## C

- canola . . . . . 6  
 carboximide . . . . . 163  
 causal agent . . . . . 136  
 – pathogen . . . . . 123  
 characterisation . . . . . 208  
 chemical disease control . . . . . 163  
 chestnut blight fungus . . . . . 141  
 chilli root rot . . . . . 61  
 – tissue . . . . . 61  
*chit33*-cDNA . . . . . 6  
 chlormequat chloride . . . . . 223  
 citrus brown mite . . . . . 39  
 coat protein . . . . . 200  
*Cochliobolus heterostrophus* T-toxin . . . . . 53  
*Coleoptera* species . . . . . 33  
*CP* gene sequence . . . . . 200  
 crop . . . . . 191  
*Cryphonectria parasitica* . . . . . 141  
*Cucumber mosaic virus* . . . . . 123, 195, 200  
*Cucumis sativus* . . . . . 123  
*Cuminum cyminum* . . . . . 74

## D

- DAS-ELISA . . . . . 123

- determination of fungal pathogen . . . . . 74  
 diagnose . . . . . 177, 208  
 disease . . . . . 136  
 – control . . . . . 170  
 disporsal . . . . . 33

## E

- efficacy . . . . . 214  
 ELISA . . . . . 208  
 emergence . . . . . 115  
 entomopathogenic fungi . . . . . 39  
*Erwinia amylovora* . . . . . 1  
 esteric pyrethroid . . . . . 13, 94  
 ethephon . . . . . 223  
 European chestnut . . . . . 141  
*Eutetranychus orientalis* (Acari: Tetranychidae) . . . . . 39  
 exotic trees . . . . . 150

## F

- fertile stem . . . . . 136  
*Festulolium* . . . . . 136  
 field survey . . . . . 123  
 fire blight . . . . . 1  
 first detection . . . . . 88  
 – report . . . . . 136  
 fitness cost . . . . . 170  
 Flavescence dorée . . . . . 88  
 formulated bioorganic . . . . . 80  
*Fraxinus sogdiana* . . . . . 150  
 fruit distortion . . . . . 123  
 – production . . . . . 153  
 fumigation . . . . . 33  
 fungal disease . . . . . 6, 74  
 – RNA . . . . . 53  
 fungi . . . . . 177  
 fungicide . . . . . 163  
 – resistance . . . . . 163, 170  
*Fusarium* spp. . . . . 74  
 – *poae* . . . . . 136

## G

- Ganoderma boninense* . . . . . 80  
*Ganoderma* disease . . . . . 80  
 gene expression . . . . . 53  
 – *DEC1* . . . . . 53  
 – *cry* . . . . . 46  
 – *Lr 20* . . . . . 108  
 – *Lr 29* . . . . . 108

genetic variation . . . . . 200  
 G protein . . . . . 53  
 grain yield . . . . . 223  
 granary weevil . . . . . 156  
 grass hybrid . . . . . 136  
 growth regulator . . . . . 1, 223

**H**

*Hirsutella thompsonii* . . . . . 39  
*Hordeum vulgare* . . . . . 67  
 host . . . . . 200  
*Hymenoscyphus fraxineus* . . . . . 150  
 hypovirus . . . . . 141

**I**

*Impatiens walleriana* . . . . . 115  
 improving resistance . . . . . 6  
 insecticidal activity . . . . . 156  
     – effect . . . . . 156  
 insecticide . . . . . 33  
     – residues . . . . . 108  
 insect pest . . . . . 153  
 introduction . . . . . 150  
 invasion pathway . . . . . 150  
     – rout . . . . . 150  
*in vitro* culture techniques . . . . . 1  
 IRAC method . . . . . 13, 94  
 irrigation . . . . . 214

**K**

Krüssmann's ash belt . . . . . 150

**L**

laboratory evaluation . . . . . 39  
 lambda-cyhalothrin . . . . . 13, 94  
 leafhopper . . . . . 88  
*Leptopterna dolabrata* . . . . . 136  
 lichen extract . . . . . 156

**M**

*Macrophomina phaseolina* . . . . . 74  
 maize . . . . . 53  
     – stand height . . . . . 223  
*Malus* L. . . . . 1  
 management . . . . . 223  
 MAPK pathway . . . . . 53  
 mating type . . . . . 141  
 mechanical transmission . . . . . 123  
*Meligethes aeneus* (Coleoptera: Nitidulidae) . . . . . 13, 94  
*Meloidogyne javanica* . . . . . 46  
 mepiquat chloride . . . . . 223  
 mode of action . . . . . 170  
 mortality . . . . . 39

**N**

nematicidal . . . . . 46  
 nematode management . . . . . 46  
 neonicotinoid insecticide . . . . . 108  
 new pest . . . . . 153  
 number of scientists . . . . . 191

**O**

oak . . . . . 141  
 occurrence . . . . . 88  
 oil palm seedling . . . . . 80  
 oily spot . . . . . 123  
 oomycete . . . . . 177  
 oxidative stress . . . . . 127

**P**

*Paecilomyces fumosoroseus* . . . . . 39  
 pathogen . . . . . 127, 191  
     – identification . . . . . 61  
 pathogenicity . . . . . 39  
 pathotype . . . . . 67  
 pawpaw . . . . . 153  
 pepper . . . . . 127  
 pest . . . . . 33, 191  
     – taxa . . . . . 191  
 phenology . . . . . 88  
 phosphine . . . . . 33  
 phylogeny . . . . . 200  
*Phytophthora capsici* stress . . . . . 127  
 phytoplasma . . . . . 177  
 phytotoxicity . . . . . 214  
 plant . . . . . 177  
     – pathogen . . . . . 177  
 pollen beetles . . . . . 13, 94  
 polyamine . . . . . 127  
 polymerase chain reaction (PCR) . . . . . 177, 208  
 population detection . . . . . 61  
     – determination . . . . . 61  
     – diversity . . . . . 67  
     – structure . . . . . 141  
 pre-emergent herbicide . . . . . 214  
 prohexadione-Ca . . . . . 223  
 protection . . . . . 33  
 pyrethroid resistance . . . . . 13, 94

**Q**

qPCR chemistry . . . . . 177  
 quantification . . . . . 177  
 quarantine pathogen . . . . . 115

**R**

real strong bioorganic fertiliser (RSBF) . . . . . 80  
 Real time PCR (RT-PCR) . . . . . 61, 115, 177  
 research and development . . . . . 163



residue . . . . .	108	<i>Synanthedon tipuliformis</i> (Clerck, 1759) . . . . .	153
risk analysis . . . . .	170	<b>T</b>	
root knot nematode . . . . .	46	taxon . . . . .	191
– rot . . . . .	74	testing apple resistance . . . . .	1
<b>S</b>		<i>Tobacco ringspot virus</i> . . . . .	115
<i>Scaphoideus titanus</i> Ball		tolerance . . . . .	127
(Hemiptera, Cicadellidae) . . . . .	88	tomato . . . . .	46
scientometric analysis . . . . .	191	– yellow leaf curl disease . . . . .	208
scientometry . . . . .	191	– <i>yellow leaf curl virus</i> . . . . .	208
<i>Sclerotinia sclerotiorum</i> . . . . .	6	triazole . . . . .	163
<i>Sclerotium rolfsii</i> . . . . .	61	<b>U</b>	
seed transmissibility . . . . .	195	unnecessary virulence . . . . .	67
– transmission . . . . .	195	<b>V</b>	
selectivity . . . . .	214	vc type . . . . .	141
serological test . . . . .	195	viroid . . . . .	177
Sesiidae . . . . .	153	virulence frequency . . . . .	67
signal transduction . . . . .	53	virus . . . . .	177
silvertop on loloid-type . . . . .	136	– distribution . . . . .	208
<i>Sitophilus granarius</i> (L.) (Coleoptera:		<b>W</b>	
Curculionidae) . . . . .	156	weed . . . . .	191
soil . . . . .	61	– control . . . . .	214
– moisture . . . . .	214	wheat . . . . .	33
Southern corn leaf blight . . . . .	53	– growth . . . . .	108
species diversity . . . . .	191	– protection . . . . .	108
– richness . . . . .	191	wilt . . . . .	74
specific primer pair . . . . .	61	winter squash . . . . .	195
– resistances . . . . .	67	– – landrace . . . . .	195
spermidine . . . . .	127	<b>Z</b>	
spot-fumigation . . . . .	33	<i>Zucchini yellow mosaic virus</i> . . . . .	195
stored grain . . . . .	33		
strobilurin . . . . .	163		
subgroup I . . . . .	200		
sunflower . . . . .	214		
– herbicide . . . . .	214		
symptomology . . . . .	200		