

INDEX OF VOLUME 49 (2013)

Original Scientific Paper

ABUDULAI M., SALIFU A.B., OPARE-ATAKORA D., HARUNA M., BABA I.I.Y., DZOMEKU I.K., BRANDENBURG R.L., JORDAN D.L.: Field efficacy of neem (<i>Azadirachta indica</i> A. Juss) for managing soil arthropods and <i>Cercospora</i> leaf spots damage for increased yield in peanut	65
BAKYS R., VASAITIS R., SKOVSGAARD J.P.: Patterns and severity of crown dieback in young even-aged stands of european ash (<i>Fraxinus excelsior</i> L.) in relation to stand density, bud flushing phenotype, and season	120
CHEBET F., DENG A.L., OGENDO J.O., KAMAU A.W., BETT P.K.: Bioactivity of selected plant powders against <i>Prostephanus truncatus</i> (Coleoptera: Bostrichidae) in stored maize grains	34
GHOLAMZADEH CHITGAR M., GHADAMYARI M., SHARIFI M.: Identification and characterisation of gut proteases in the fig tree skeletoniser moth, <i>Choreutis nemorana</i> Hübner (Lepidoptera: Choreutidae)	19
HRADIL K., PSOTA V., ŠTASTNÁ P.: Species diversity of true bugs on apples in terms of plant protection	73
KOCOUREK F., SASKA P., ŘEZÁČ M.: Diversity of carabid beetles (Coleoptera: Carabidae) under three different control strategies against European corn borer in maize	146
KYSELÁKOVÁ H., SEDLÁŘOVÁ M., KUBALA M., NOŽKOVÁ V., PITERKOVÁ J., LUHOVÁ L., NOVÁK O., ILÍK P.: Reactive oxygen and nitrogen species and hormone signalling in systemic infection of pea by <i>Pea enation mosaic virus</i>	105
LÁSKA P.: Migration flight of carrot psyllid (<i>Trioza apicalis</i>) at various latitudes is independent of local phenology	187
LYIMO H.J.F., PRATT R.C., MNYUKU R.S.O.W.: Infection process in resistant and susceptible maize (<i>Zea mays</i> L.) genotypes to <i>Cercospora zeae-maydis</i> (type II)	11
MARTINKOVÁ Z., HONĚK A.: Fatal germination in barnyardgrass (<i>Echinochloa crus-galli</i>)	193
MERT-TÜRK F., GENCER R.: Distribution of the 3-AcDON, 15-AcDON, and NIV chemotypes of <i>Fusarium culmorum</i> in the North-West of Turkey	57
MRÁZKOVÁ M., ČERNÝ K., TOMŠOVSKÝ M., STRNADOVÁ V., GREGOROVÁ B., HOLUB V., PÁNEK M., HAVRDOVÁ L., HEJNÁ M.: Occurrence of <i>Phytophthora multivora</i> and <i>Phytophthora plurivora</i> in the Czech Republic	155
PAVELA R., ŽABKA M., KALINKIN V., KOTENEV E., GERUS A., SHCHENIKOVA A., CHERMENSKAYA T.: Systemic applications of azadirachtin in the control of <i>Corythucha ciliata</i> (Say, 1832) (Hemiptera, Tingidae), a pest of <i>Platanus</i> sp.	27
ŠAFRÁNKOVÁ I., HOLKOVÁ L., KMOCH M.: Leaf spot and dieback of <i>Buxus</i> caused by <i>Cylindrocladium buxicola</i>	165
SANSOM M., SABORIDO A.A., DUBOIS M.: Control of <i>Conyza</i> spp. with glyphosate – a review of the situation in Europe	44

SEDLÁŘOVÁ M., TROJANOVÁ Z., LEBEDA A.: Distribution and harmfulness of <i>Plasmopara halstedii</i> on sunflower in the Czech Republic	1
SINGH K., SINGH N.N.: Preying capacity of different established predators of the aphid <i>Lipaphis erysimi</i> (Kalt.) infesting rapeseed-mustard crop in laboratory conditions	84
STŘEDA T., VAHALA O., STŘEDOVÁ H.: Prediction of adult western corn rootworm (<i>Diabrotica virgifera virgifera</i> LeConte) emergence	89
TAN Q.Q., WU H.Y., JIANG S.X., BING H.: Mortality and movement behaviour of <i>Bursaphelenchus xylophilus</i> under different dosages of copper sulphate	98
TANWAR A., AGGARWAL A., KAUSHISH S., CHAUHAN S.: Interactive effect of AM fungi with <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> on growth and yield of broccoli	137
TÓTH P., HRUDOVÁ E., SAPÁKOVÁ E., ZÁVADSKÁ E., SEIDENGLANZ M.: Species of the genus <i>Meligethes</i> occurring in oil-seed crop fields in the Czech Republic	177
TUNCER S., EKEN C.: Anastomosis grouping of <i>Rhizoctonia solani</i> and binucleate <i>Rhizoctonia</i> spp. isolated from pepper in Erzincan, Turkey	127
VÍCHOVÁ J., STAŇKOVÁ B., POKORNÝ R., VEJRAŽKA K.: Evaluation of safflower varieties for resistance to the fungal pathogen, <i>Colletotrichum acutatum</i>	132
ZIBAEE I., BANDANI A.R., SENDI J.J.: Pathogenicity of <i>Beauveria bassiana</i> to fall webworm (<i>Hyphantria cunea</i>) (Lepidoptera: Arctiidae) on different host plants	169
Book Review	
LEBEDA A.: Kúdela V., Kocourek F., Bárnét M. (eds): České a anglické názvy chorob a škůdců rostlin – Czech and English Names of Plant Diseases and Pests	55
Obituary Notice	
BARTOŠ P., LEBEDA A.: Dr Jens Jürgen Nielsen (1927–2013)	104

AUTHOR INDEX

- ABUDULAI M. ... 65
AGGARWAL A. ... 137
- BABA I.I.Y. ... 65
BAKYS R. ... 120
BANDANI A.R. ... 169
BARTOŠ P. ... 104
BETT P.K. ... 34
BRANDENBURG R.L. ... 65
- CHAUHAN S. ... 137
CHEBET F. ... 34
CHERMENSKAYA T. ... 27
ČERNÝ K. ... 155
- DENG A.L. ... 34
DUBOIS M. ... 44
DZOMEKU I.K. ... 65
- EKEN C. ... 127
- GENCER R. ... 57
GERUS A. ... 27
GHADAMYARI M. ... 19
GHOLAMZADEH CHITGAR M. ... 19
GREGOROVÁ B. ... 155
- HARUNA M. ... 65
HAVRDOVÁ L. ... 155
HEJNÁ M. ... 155
HOLKOVÁ L. ... 165
HOLUB V. ... 155
HONĚK A. ... 193
HRADIL K. ... 73
HRUDOVÁ E. ... 177
- ILÍK P. ... 105
- JIANG S.X. ... 98
JORDAN D.L. ... 65
- KALINKIN V. ... 27
KAMAU A.W. ... 34
KAUSHISH S. ... 137
KMOCH M. ... 165
- KOCOUREK F. ... 146
KOTENEV E. ... 27
KUBALA M. ... 105
Kyseláková H. ... 105
- LÁSKA P. ... 187
LEBEDA A. ... 1, 55, 104
LUHOVÁ L. ... 105
LYIMO H.J.F. ... 11
- MA H.B. ... 98
MARTINKOVÁ Z. ... 193
MERT-TÜRK F. ... 57
MNYUKU R.S.O.W. ... 11
MRÁZKOVÁ M. ... 155
- NOVÁK O. ... 105
NOŽKOVÁ V. ... 105
- OGENDO J.O. ... 34
OPARE-ATAKORA D. ... 65
- PÁNEK M. ... 155
PAVELA R. ... 27
PITERKOVÁ J. ... 105
POKORNÝ R. ... 132
PRATT R.C. ... 11
PSOTA V. ... 73
- ŘEZÁČ M. ... 146
- SABORIDO A.A. ... 44
ŠAFRÁNKOVÁ I. ... 165
SALIFU A.B. ... 65
SANSOM M. ... 44
SAPÁKOVÁ E. ... 177
SASKA P. ... 146
SEDLÁŘOVÁ M. ... 1, 105
SEIDENGLANZ M. ... 177
SENDI J.J. ... 169
SHARIFI M. ... 19
SHCHENIKOVA A. ... 27
SINGH K. ... 84
SINGH N.N. ... 84
SKOVSGAARD J.P. ... 120

STAŇKOVÁ B. ... 132

ŠTASTNÁ P. ... 73

STRNADOVÁ V. ... 155

STŘEDA T. ... 89

STŘEDOVÁ H. ... 89

TAN Q.Q. ... 98

TANWAR A. ... 137

TOMŠOVSKÝ M. ... 155

TÓTH P. ... 177

TROJANOVÁ Z. ... 1

TUNCER S. ... 127

VAHALA O. ... 89

VASAITIS R. ... 120

VEJRAŽKA K. ... 132

VÍCHOVÁ J. ... 132

WU H.Y. ... 98

ŽABKA M. ... 27

ZÁVADSKÁ E. ... 177

ZİBAEE I. ... 169

AUTHOR INSTITUTION INDEX

Czech Republic

Agricultural Research, Ltd. Troubsko, Troubsko	132
AGRITEC, Research, Breeding & Services Ltd., Department of Plant Protection, Šumperk	177
Czech Hydrometeorological Institute, Branch Office Brno, Department of Agrometeorology and Phenology, Brno	89
Crop Research Institute, Prague	
Division of Agroecology, Department of Plant Ecology and Weed Science	193
Division of Plant Health, Department of Entomology	27, 146, 193
Institute of Experimental Botany AS CR, Olomouc	105
Czech University of Life Sciences Prague, Faculty of Forestry and Wood Sciences, Prague	155
Palacky University in Olomouc, Faculty of Science, Olomouc	
Department of Biochemistry	105
Department of Biophysics	105
Department of Botany	1, 105
Centre of the Region Haná for Biotechnological and Agricultural Research	105
Department of Zoology	187
State Phytosanitary Administration, Jičín	73
Mendel University in Brno, Brno	
Faculty of Agronomy	
Department of Zoology, Fisheries, Hydrobiology and Apiculture	73
Department of Crop Science, Breeding and Plant Medicine	89, 132, 165, 177
Faculty of Forestry and Wood Technology	
Department of Forest Protection and Wildlife Management	155
Silva Tarouca Research Institute for Landscape and Ornamental Gardening,	
Department of Biological Risks, Průhonice	155
State Phytosanitary Administration, Brno	89

France

Monsanto Agriculture France SAS, Bron Cedex	44
---	----

Ghana

CSIR-Savanna Agricultural Research Institute, Tamale	65
University for Development Studies, Tamale	65

India

Banaras Hindu University, Institute of Agricultural Sciences, Department of Entomology & Agricultural Zoology, Varanasi	84
Kurukshetra University, Mycology and Plant Pathology Laboratory, Department of Botany, Kurukshetra, Haryana	137
Udai Pratap Autonomous College, Department of Agricultural Entomology, Varanasi	84
Yamuna Nagar, D.A.V. College for Girls, Department of Botany, Haryana	137

Iran

University of Tehran, College of Agriculture and Natural Resources, Department of Plant Protection, Karaj	169
University of Guilan, Faculty of Agriculture, Department of Plant Protection, Rasht	19, 169

Kenya

Egerton University, Egerton	
Department of Biological Sciences	34
Department of Crops, Horticulture and Soils.....	34

P.R. China

Guangxi University, Agricultural College, Nanning	98
Shandong Agricultural University, College of Plant Protection, Taian	98

Russia

All Russian Institute of Plant Protection (VIZR), St. Petersburg	
Slavyansk Experimental Station, Slavyansk-on-Kuban	27
Stavropol Research Antiplague Institute, Stavropol	27

Spain

Monsanto Agricultura España, S.L., Madrid	44
---	----

Sweden

Swedish University of Agricultural Sciences, Alnarp, Sweden	
Uppsala BioCenter, Department of Forest Mycology and Plant Pathology,	120
Southern Swedish Forest Research Centre	120

Switzerland

Monsanto International Sarl, Morges	44
---	----

Tanzania

Sokoine University of Agriculture, Chuo Kikuu, Department of Crop Science and Production, Morogoro	11
---	----

Turkey

Çanakkale Onsekiz Mart University, Agricultural Faculty, Protection Department, Çanakkale	57
Horticultural Research Station, Erzincan	127
Süleyman Demirel University, Faculty of Agriculture, Department of Agricultural Biotechnology, Isparta	127

UK

Monsanto UK Ltd, Cambridge, UK	44
--------------------------------------	----

USA

New Mexico State University, Department of Plant and Environmental Sciences, Las Cruces	11
North Carolina State University, Raleigh	65

SUBJECT INDEX

A

Acaulospora laevis 137
adult 89
AM fungi 137
anthracnose 132
aphid 84
apple 73
Arachis hypogaeae L. 65
Artemisia annua 169
Azadirachta indica A. Juss 27, 34, 65
azadirachtin 27

B

barnyardgrass 193
Beauveria bassiana 169
botanical insecticide 27
box blight 165
brassicaceae 137
Brassica oleracea L. var. *italica* 137
broccoli 137
Bt maize 146
bud flushing phenotype 120
Bursaphelenchus xylophilus 98
Buxus 165

C

Capsicum annuum 127
carabid beetle 146
carrot psyllid 187
Carthamus tinctorius 132
Cercospora leaf spot 65
Cercospora zeina 11
Choreutis nemorana Hübner 19
chymotrypsin 19
coccinellid larvae 84
Coleoptera: Bostrichidae 34
–: Carabidae 146
Colletotrichum acutatum 132
Conyza spp. 44
– *bonariensis* (L.) Cronquist 44
– *sumatrensis* (Retz.) E. H. Walker 44
copper sulphate 98
corn insect pest 89
Corythucha ciliata (Say, 1832) 27
crown damage 120
– dieback 120
– rot 57
Cry endotoxin 146
Cylindrocladium buxicola 165

D

Daucus carota 187
deoxynivalenol 57
Diabrotica virgifera virgifera LeConte 89
dieback 165
disease incidence 1
– severity 1
diversity 73, 146

E

effective temperature sum 89
Echinochloa crus-galli 193
emergence 89
entomopathogenic fungi 169
european ash 120
European corn borer 146

F

fall webworm 169
field efficacy 65
fig leaf roller moth 19
– tree skeletoniser moth 19
flight 187
forest tree 155
Fraxinus excelsior L. 120
fungal pathogen 120, 132
fungicide 165
Fusarium culmorum 57

G

genetic chemotyping 57
germination 193
Glomus intraradices 137
glyphosate 44
ground beetle 146
gut 19

H

harmfulness 1
head blight 57
heat shock protein 105
Helianthus annuus 1
Hemiptera, Tingidae 27
hormone 105
host plant 169
– resistance 11
hydrogen peroxide 105
Hymenoscyphus pseudoalbidus 120

<i>Hyphantria cunea</i>	169
hypocotyl rot	127

I

index of dominance	177
infection	11
inoculum	132
insecticidal activity	27
interactive effect	137

L

<i>Lantana camara</i>	34
<i>Lavandula stoechas</i>	169
LC ₅₀	98
leaf spot	65, 165
Lepidoptera: Arctiidae	169
–: Choreutidae	19
<i>Lipaphis erysimi</i> (Kalt.)	84
locomotor behaviour	98

M

maize 146	
<i>Malus domestica</i> L.	73
<i>Meligethes</i> spp.	177
– <i>aeneus</i>	177
migration	187
monitoring	187
mortality	98
movement behaviour	98
mycotoxin	57

N

neem	65
NeemAzal	27
nitric oxide	105
nitrogen	105
nivalenol	57
nutrient uptake	137

O

oak decline	155
oil arthropod	65
oil-seed crop	177
oxygen	105

P

pathogenicity	127, 155, 169
pathogen isolates	132
– population	1
pea	105
<i>Pea enation mosaic virus</i>	105
peanut	65
PEMV	105

pepper	127
pest	27, 73
– control	65
phenology	187
– of tree	120
photoperiod	187
phytohormone	105
phytophthora disease	155
<i>Phytophthora multivora</i>	155
– <i>plurivora</i>	155
pine wood nematode	98
<i>Pisum sativum</i>	105
plant powder	34
– protection	73
<i>Plasmopara halstedii</i>	1
<i>Platanus</i> sp.	27
pollen beetle	177
predator	84
preying efficiency	84
<i>Prostephanus truncatus</i>	34
protease	19
– inhibitor	19
<i>Pseudomonas fluorescens</i>	137
psyllid	187

Q

quarantine disease	1
------------------------------	---

R

rapeseed-mustard crop	84
resistance	132, 177
resistant maize	11
<i>Rhizoctonia</i> spp.	127
– <i>solani</i>	127
risk assessment	146
root rot	127

S

safflower	132
season	120
seedling emergence	193
soil	193
– temperature	89
species diversity	73
stand density	120
stored maize grains	34
sunflower downy mildew	1
susceptibility	132
susceptible maize	11
syrrhid larvae	84
systemic infection	105

T

temperature	193
-----------------------	-----

Tephrosia vogelii 34
Thanatephorus cucumeris 127
tillage 193
transgenic crop 146
Trichoderma viride 137
trichothecenes 57
Trioza apicalis 187
true bug 73
trunk injection 27
trypsin 19

V

vegetable crop 137

W

western corn rootworm 89

Y

yield 65
young even-age 120

Z

Zea mays L. 11, 89