

Volume contents

Volume 108, No. 1 January 2002

Detection of the defoliating pathotype of <i>Verticillium dahliae</i> in infected olive plants by nested PCR	1–13
J. Mercado-Blanco, D. Rodríguez-Jurado, E. Pérez-Artés and R.M. Jiménez-Díaz	
Different classes of resistance to turnip mosaic virus in <i>Brassica rapa</i>	15–20
J.A. Walsh, R.L. Rusholme, S.L. Hughes, C.E. Jenner, J.M. Bambridge, D.J. Lydiate and S.K. Green	
Genetic control of resistance to the piperidine fungicide piperalin in <i>Ustilago maydis</i>	21–30
A.N. Markoglou and B.N. Ziogas	
Salicylic acid induced insensitivity to culture filtrate of <i>Fusarium oxysporum</i> f.sp. <i>zingiberi</i> in the calli of <i>Zingiber officinale</i> Roscoe	31–39
Prachi, T.R. Sharma and B.M. Singh	
Induction of systemic acquired resistance in pepper plants by acibenzolar-S-methyl against bacterial spot disease	41–49
R. Buonaurio, L. Scarponi, M. Ferrara, P. Sidoti and A. Bertona	
Gene flow analysis of <i>Phytophthora porri</i> reveals a new species: <i>Phytophthora brassicae</i> sp. nov.	51–62
W.A. Man in 't Veld, A.W.A.M de Cock, E. Ilieva and C.A. Lévesque	
Characterization of an extracellular serine protease of <i>Fusarium eumartii</i> and its action on pathogenesis related proteins	63–72
F. Olivieri, M.E. Zanetti, C.R. Oliva, A.A. Covarrubias and C.A. Casalongué	
Patterns of splash dispersed conidia of <i>Fusarium poae</i> and <i>Fusarium culmorum</i>	73–80
H.M. Hörberg	
Production of monoclonal antibodies against apple proliferation phytoplasma and their use in serological detection	81–86
N. Loi, P. Ermacora, L. Carraro, R. Osler and T.A. Chen	
<i>Short communication</i>	
Detection of European isolates of <i>Oat mosaic virus</i>	87–91
G.R.G. Clover, C. Ratti, C. Rubies-Autonell and C.M. Henry	

Volume 108, No. 2 February 2002

Studies of host–pathogen interaction between maize and <i>Acremonium strictum</i> from Cameroon	93–102
A. Tagne, E. Neergaard, H.J. Hansen and C. The	
Suppression of <i>Verticillium</i> wilt in eggplant by some fungal root endophytes	103–109
K. Narisawa, H. Kawamata, R.S. Currah and T. Hashiba	
Study of defense-related gene expression in grapevine leaves and berries infected with <i>Botrytis cinerea</i>	111–120
A. Bézier, B. Lambert and F. Baillieul	

Amplification polymorphism among <i>Xanthomonas albilineans</i> strains, using a single oligonucleotide primer	121–130
Y. Jaufeerally-Fakim, J.C. Autrey, I. Toth, M. Daniels and A. Dookun	
An aspartic protease with antimicrobial activity is induced after infection and wounding in intercellular fluids of potato tubers	131–137
M.G. Guevara, C.R. Oliva, M. Huarte and G.R. Daleo	
Characterisation of isolates of <i>Phytophthora infestans</i> from Hungary	139–146
J. Bakonyi, M. Láday, T. Dula and T. Érsek	
Cultural characteristics, pathogenicity and vegetative compatibility of <i>Fusarium udum</i> isolates from pigeonpea (<i>Cajanus cajan</i> (L.) Millsp.) in Kenya	147–154
E.K. Kiprop, A.W. Mwang'ombe, J.P. Baudoin, P.M. Kimani and G. Mergeai	
<i>Citrus variegation virus</i>: molecular variability of a portion of the RNA 3 containing the coat protein gene and design of primers for RT-PCR detection	155–162
B. Bennani, C. Mendes, M. Zemzami, H. Azeddoug and G. Nolasco	
Development of stem-base pathogens on different cultivars of winter wheat determined by quantitative PCR	163–177
P. Nicholson, A.S. Turner, S.G. Edwards, G.L. Bateman, L.W. Morgan, D.W. Parry, J. Marshall and M. Nuttall	
<i>Short communication</i>	
Rapid identification of <i>Clavibacter michiganensis</i> subspecies <i>sepedonicus</i> using two primers random amplified polymorphic DNA (TP-RAPD) fingerprints	179–184
R. Rivas, E. Velázquez, J.-L. Palomo, P.F. Mateos, P. García-Benavides and E. Martínez-Molina	

Volume 108, No. 3 March 2002

Study of bacterial determinants involved in the induction of systemic resistance in bean by <i>Pseudomonas putida</i> BTP1	187–196
M. Ongena, A. Giger, P. Jacques, J. Dommes and P. Thonart	
Specific and sensitive detection of <i>Phytophthora nicotianae</i> by simple and nested-PCR	197–207
D. Grote, A. Olmos, A. Kofoet, J.J. Tuset, E. Bertolini and M. Cambra	
Nuclear and mitochondrial DNA polymorphisms in three mitotic parthenogenetic <i>Meloidogyne</i> spp.	209–220
M. Dautova, H. Overmars, J. Bakker, G. Smant and F.J. Gommers	
Chlamydospores of <i>Fusarium oxysporum</i> Schlecht f.sp. <i>orthoceras</i> (Appel & Wollenw.) Bilai as inoculum for wheat-flour-kaolin granules to be used for the biological control of <i>Orobanche cumana</i> Wallr.	221–228
D. Müller-Stöver, J. Kroschel, H. Thomas and J. Sauerborn	
Genetic variation in <i>Melampsora larici-epitea</i> on biomass willows assessed using AFLP	229–236
M.H. Pei, C. Bayon, C. Ruiz, Z.W. Yuan and T. Hunter	
Rapid and specific detection of virulent <i>Pseudomonas avellanae</i> strains by PCR amplification	237–244
S. Loreti and A. Gallelli	
Scab response and moniliformin accumulation in kernels of oat genotypes inoculated with <i>Fusarium avenaceum</i> in Poland	245–251
I. Kiecana, E. Mielniczuk, Z. Kaczmarek, M. Kostecki and P. Golinski	

Inactivation of <i>Macrophomina phaseolina</i> propagules during composting and effect of composts on dry root rot severity and on seed yield of clusterbean	253–261
S. Lodha, S.K. Sharma and R.K. Aggarwal	
The fatty acid composition of <i>Plasmopara halstedii</i> and its taxonomic significance	263–267
O. Spring and K. Haas	
Genetic relatedness among <i>Pseudomonas avellanae</i>, <i>P. syringae</i> pv. <i>theae</i> and <i>P.s.</i> pv. <i>actinidiae</i>, and their identification	269–278
M. Scortichini, U. Marchesi and P. Di Prospero	
<i>Short communication</i>	
Systemic accumulation of 12-oxo-phytodienoic acid in SAR-induced potato plants	279–283
P. Landgraf, I. Feussner, A. Hunger, D. Scheel and S. Rosahl	

Volume 108, No. 4 May 2002

Tobacco plants transformed with an untranslatable form of the coat protein gene of the <i>Potato virus Y</i> are resistant to viral infection	285–292
K. Masmoudi, I. Yacoubi, A. Hassairi, L.N. Elarbi and R. Ellouz	
Asymmetric PCR ELISA: increased sensitivity and reduced costs for the detection of plant viruses	293–298
G. Nolasco, Z. Sequeira, C. Soares, A. Mansinho, A.M. Bailey and C.L. Niblett	
Toxigenic <i>Fusarium</i> species of <i>Liseola</i> section in pre-harvest maize ear rot, and associated mycotoxins in Slovakia	299–306
A. Srobarova, A. Moretti, R. Ferracane, A. Ritieni and A. Logrieco	
Evaluation of parameters accounting for Phomopsis resistance using natural infection and artificial inoculation on recombinant inbred lines from a cross between susceptible and resistant sunflower	307–315
K. Langar, Y. Griveau, F. Kaan, H. Serieys, D. Varès and A. Bervillé	
Biological control of black rot (<i>Xanthomonas campestris</i> pv. <i>campestris</i>) of brassicas with an antagonistic strain of <i>Bacillus subtilis</i> in Zimbabwe	317–325
E.G. Wulff, C.M. Mguni, C.N. Mortensen, C.L. Keswani and J. Hockenhull	
Variability of <i>Peronospora sparsa</i> (syn. <i>P. rubi</i>) in Finland as measured by amplified fragment length polymorphism	327–335
H. Lindqvist-Kreuze, H. Koponen and J.P.T. Valkonen	
Observations of <i>Phytophthora</i> spp. in water recirculation systems in commercial hardy ornamental nursery stock	337–343
K. Themann, S. Werres, R. Lüttmann and H.-A. Diener	
Mechanisms of phosphate-induced disease resistance in cucumber	345–353
M. Orober, J. Siegrist and H. Buchenauer	
Identification and detection of <i>Rosellinia necatrix</i> by conventional and real-time Scorpion-PCR	355–366
L. Schena, F. Nigro and A. Ippolito	
<i>Short communications</i>	
Development of a general potexvirus detection method	367–371
R.A.A. van der Vlugt and M. Berendsen	

- A glasshouse cropping method for screening lettuce lines for resistance to *Sclerotinia sclerotiorum*** 373–378
J.M. Whipps, S.P. Budge, S. McClement and D.A.C. Pink
- Improved PCR-based assays for pre-symptomatic diagnosis of light leaf spot and determination of mating type of *Pyrenopeziza brassicae* on winter oilseed rape** 379–383
S.J. Foster, A.M. Ashby and B.D.L. Fitt

Volume 108, No. 5 June 2002

- Effect of film-forming polymers on infection of barley with the powdery mildew fungus, *Blumeria graminis* f. sp. *hordei*** 385–389
F. Sutherland and D. R. Walters
- Mating behaviour and vegetative compatibility in Spanish populations of *Botryotinia fuckeliana*** 391–400
J. Delcán and P. Melgarejo
- The use of molecular beacons combined with NASBA for the sensitive detection of *Sugarcane yellow leaf virus*** 401–407
M.C. Gonçalves, M.M. Klerks, M. Verbeek, J. Vega and J.F.J.M. van den Heuvel
- Effects of plant defence activators on anthracnose disease of cashew** 409–420
A.M.Q. Lopez and J.A. Lucas
- Sensitivity of Red Delicious apple fruit at various phenologic stages to infection by *Alternaria alternata* and moldy-core control** 421–427
M. Reuveni, D. Sheglov, N. Sheglov, R. Ben-Arie and D. Prusky
- Enhancing resistance of tomato and hot pepper to *Pythium* diseases by seed treatment with fluorescent pseudomonads** 429–441
V. Ramamoorthy, T. Raguchander and R. Samiyappan
- Chemical and biological treatments for control of gummy stem blight of greenhouse cucumbers** 443–448
R.S. Utkhede and C.A. Koch
- Dominant colonisation of wheat roots by *Pseudomonas fluorescens* Pf29A and selection of the indigenous microflora in the presence of the take-all fungus** 449–459
A. Chapon, A.-Y. Guillermin, L. Delalande, L. Lebreton and A. Sarniguet
- Multiple selection of potato cyst nematode *Globodera pallida* virulence on a range of potato species. I. Serial selection on *Solanum*-hybrids** 461–467
S.J. Turner and C.C. Fleming
- Effect of dose rate of azoxystrobin and metconazole on the development of *Fusarium* head blight and the accumulation of deoxynivalenol (DON) in wheat grain** 469–478
S.R. Pirgozliev, S.G. Edwards, M.C. Hare and P. Jenkinson
- Short communication*
- Engineering of a single chain variable fragment antibody specific for the *Citrus tristeza virus* and its expression in *Escherichia coli* and *Nicotiana tabacum*** 479–483
P. Galeffi, G. Giunta, S. Guida and C. Cantale

Volume 108, No. 6 July 2002

Temporal progression of bean common bacterial blight (<i>Xanthomonas campestris</i> pv. <i>phaseoli</i>) in sole and intercropping systems	485–495
C. Fininsa and J. Yuen	
Identification of the beet cyst nematode <i>Heterodera schachtii</i> by PCR	497–506
S. Amiri, S.A. Subbotin and M. Moens	
New group 16SrIII phytoplasma lineages in Lithuania exhibit rRNA interoperon sequence heterogeneity	507–517
R. Jomantiene, R.E. Davis, D. Valiunas and A. Alminaite	
Relationship between production of the phytotoxin prehelminthosporol and virulence in isolates of the plant pathogenic fungus <i>Bipolaris sorokiniana</i>	519–526
D. Apoga, H. Åkesson, H.-B. Jansson and G. Odham	
Effect of inoculum rates and sources of <i>Coniothyrium minitans</i> on control of <i>Sclerotinia sclerotiorum</i> disease in glasshouse lettuce	527–538
E.E. Jones and J.M. Whipps	
Detection of <i>Pseudomonas syringae</i> pv. <i>aptata</i> in irrigation water retention basins by immunofluorescence colony-staining	539–545
C.M.-H. Riffaud and C.E. Morris	
Protective effects against <i>Erwinia amylovora</i> induced by <i>hrp</i> mutants in the whole plant are only partially mimicked in cultivated cells	547–553
M. Faize, M.-N. Brisset, J.-S. Venisse, J.-P. Paulin and M. Tharaud	
Altered phenotypic response to <i>Peronospora parasitica</i> in <i>Brassica juncea</i> seedlings following prior inoculation with an avirulent or virulent isolate of <i>Albugo candida</i>	555–564
U.S. Singh, N.I. Nashaat, K.J. Doughty and R.P. Awasthi	
Evaluation of tests to determine resistance of <i>Zantedeschia</i> spp. (Araceae) to soft rot caused by <i>Erwinia carotovora</i> subsp. <i>carotovora</i>	565–571
R.C. Snijder and J.M. van Tuyl	
Variation in pathogenicity associated with the genetic diversity of <i>Fusarium graminearum</i>	573–583
J.P. Carter, H.N. Rezanoor, D. Holden, A.E. Desjardins, R.D. Plattner and P. Nicholson	
Emergence of resistance-breaking isolates of <i>Rice yellow mottle virus</i> during serial inoculations	585–591
D. Fargette, A. Pinel, O. Traoré, A. Ghesquière and G. Konaté	
<i>Short communication</i>	
Mating relationships between isolates of <i>Phaeosphaeria nodorum</i>, (anamorph <i>Stagonospora nodorum</i>) from geographical locations	593–596
P. Halama	

Volume 108, No. 7 September 2002

Foreword	vii
A.F. Logrieco, L. Corazza and A. Bottalico	
Toxigenic <i>Fusarium</i> species and mycotoxins associated with maize ear rot in Europe	597–609
A. Logrieco, G. Mulè, A. Moretti and A. Bottalico	

Toxigenic <i>Fusarium</i> species and mycotoxins associated with head blight in small-grain cereals in Europe	611–624
A. Bottalico and G. Perrone	
Deoxynivalenol, nivalenol and moniliformin in wheat samples with head blight (scab) symptoms in Poland (1998–2000)	625–630
M. Tomczak, H. Wiśniewska, Ł. Stępień, M. Kostecki, J. Chelkowski and P. Goliński	
Ochratoxin A in cereals, foodstuffs and human plasma	631–637
A. Rizzo, M. Eskola and F. Atroshi	
Ochratoxin A in grapes and wine	639–643
P. Battilani and A. Pietri	
Ear rot susceptibility and mycotoxin contamination of maize hybrids inoculated with <i>Fusarium</i> species under field conditions	645–651
M. Pascale, A. Visconti and J. Chelkowski	
Studies on the infection process of <i>Fusarium culmorum</i> in wheat spikes: Degradation of host cell wall components and localization of trichothecene toxins in infected tissue	653–660
Z. Kang and H. Buchenauer	
Production of beauvericin by different races of <i>Fusarium oxysporum</i> f. sp. <i>melonis</i>, the <i>Fusarium</i> wilt agent of muskmelon	661–666
A. Moretti, A. Belisario, A. Tafuri, A. Ritieni, L. Corazza and A. Logrieco	
Epidemiology of <i>Fusarium</i> infection and deoxynivalenol content in winter wheat in the Rhineland, Germany	667–673
B. Birzele, A. Meier, H. Hindorf, J. Krämer and H.-W. Dehne	
Role of deoxynivalenol in aggressiveness of <i>Fusarium graminearum</i> and <i>F. culmorum</i> and in resistance to <i>Fusarium</i> head blight	675–684
Á. Mesterházy	
Relationship between growth and mycotoxin production by <i>Fusarium</i> species, biocides and environment	685–690
N. Magan, R. Hope, A. Colleate and E.S. Baxter	
Genetic analysis of the role of trichothecene and fumonisin mycotoxins in the virulence of <i>Fusarium</i>	691–698
R.H. Proctor, A.E. Desjardins, S.P. McCormick, R.D. Plattner, N.J. Alexander and D.W. Brown	
<i>Saccharomyces cerevisiae</i> and <i>Arabidopsis thaliana</i>: Useful model systems for the identification of molecular mechanisms involved in resistance of plants to toxins	699–703
R. Mitterbauer and G. Adam	
Mycotoxin genetics and gene clusters	705–711
G.S. Sidhu	
Biosynthesis of depsipeptide mycotoxins in <i>Fusarium</i>	713–718
T. Hornbogen, M. Glinski and R. Zocher	
Secretion of natural and synthetic toxic compounds from filamentous fungi by membrane transporters of the ATP-binding cassette and major facilitator superfamily	719–734
I. Stergiopoulos, L.-H. Zwiars and M.A. De Waard	

Volume 108, No. 8 October 2002

- The effect of different levels of beet cyst nematodes (*Heterodera schachtii*) and beet necrotic yellow vein virus (BNYVV) on single and double resistant sugar beet cultivars** 735–744
W. Heijbroek, R.G. Munning and A.C.P.M. van Swaaij
- The distribution and spread of sorghum downy mildew in sorghum and maize fields in Nigeria and Zimbabwe** 745–753
C.H. Bock and M.J. Jeger
- Rapid and homogenous detection of *Apple stem pitting virus* by RT-PCR and a fluorogenic 3' minor groove binder-DNA probe** 755–762
M.A. Salmon, M. Vendrame, J. Kummert and P. Lepoivre
- Genotype × environment effects on severity of cassava bacterial blight disease caused by *Xanthomonas axonopodis* pv. *manihotis*** 763–770
A.G.O. Dixon, J.M. Ngeve and E.N. Nukenine
- Pathogenicity and virulence of the two Dutch VCGs of *Verticillium dahliae* to woody ornamentals** 771–782
J.C. Goud and A.J. Termorshuizen
- Characterization of *Rhizoctonia solani* associated with soybean in Brazil** 783–792
R.C. Fenille, N.L. de Souza and E.E. Kuramae
- The β -tubulin gene is a useful target for PCR-based detection of an albino *Ophiostoma piliferum* used in biological control of sapstain** 793–801
S. Schroeder, Seong Hwan Kim, Sangwon Lee, K. Sterflinger and C. Breuil
- Importance of cell wall degrading enzymes produced by *Fusarium graminearum* during infection of wheat heads** 803–810
W.M. Wanjiru, Kang Zhensheng and H. Buchenauer
- Short communication*
- Identification of resistance to common bacterial blight disease on bean genotypes grown in Turkey** 811–813
A. Dursun, M.F. Dönmez and F. Şahin
- Sequencing of *Australian Grapevine Viroid* and *Yellow Speckle Viroid* isolated from a Tunisian grapevine without passage in an indicator plant** 815–820
A. Elleuch, H. Fakhfakh, M. Pelchat, P. Landry, M. Marrakchi and J.-P. Perreault

Volume 108, No. 9 November 2002

- Reduction of bacterial speck (*Pseudomonas syringae* pv. *tomato*) of tomato by combined treatments of plant growth-promoting bacterium, *Azospirillum brasilense*, streptomycin sulfate, and chemo-thermal seed treatment** 821–829
Y. Bashan and L.E. de-Bashan
- Sequence analysis and detection of *Ralstonia solanacearum* by multiplex PCR amplification of 16S–23S ribosomal intergenic spacer region with internal positive control** 831–842
K.-H. Pastrok, J.G. Elphinstone and R. Pukall

A natural population of recombinant <i>Plum pox virus</i> is viable and competitive under field conditions	843–853
M. Glasa, V. Marie-Jeanne, G. Labonne, Z. Šubr, O. Kúdela and J.-B. Quiot	
Detection of <i>Phytophthora nicotianae</i> and <i>P. citrophthora</i> in citrus roots and soils by nested PCR	855–868
A. Ippolito, L. Schena and F. Nigro	
Vegetative compatibility grouping of <i>Fusarium oxysporum</i> f. sp. <i>gladioli</i> from saffron	869–875
P. Di Primo, C. Cappelli and T. Katan	
A polymerase chain reaction (PCR) assay for the detection of inoculum of <i>Sclerotinia sclerotiorum</i>	877–886
J. Freeman, E. Ward, C. Calderon and A. McCartney	
A RT-PCR assay combined with RFLP analysis for detection and differentiation of isolates of <i>Pepino mosaic virus</i> (PepMV) from tomato	887–892
P.V. Martínez-Culebras, A. Lázaro, P. Abad Campos and C. Jordá	
Biological and physical constraints on maize production in the Humid Forest and Western Highlands of Cameroon	893–902
Z. Ngoko, K.F. Cardwell, W.F.O. Marasas, M.J. Wingfield, R. Ndemah and F. Schulthess	
<i>Short communication</i>	
Characterization of <i>Plum pox virus</i> PPV-BT-H isolated from naturally infected blackthorn (<i>Prunus spinosa</i> L.) in Hungary	903–907
P. Salamon and L. Palkovics	
PCR–RFLP and sequence data delineate three <i>Diaporthe</i> species associated with stone and pome fruit trees in South Africa	909–912
N. Moleleki, O. Preisig, M.J. Wingfield, P.W. Crous and B.D. Wingfield	
Volume contents	913–920
Author index	921–923