

Phytopathologia Mediterranea

Contents of Volume 50

Number 1, April 2011

REVIEW

- Plasmopara viticola: a review of knowledge on downy mildew of grapevine and effective disease management**
C. Gessler, I. Pertot and M. Perazzolli.....

3

RESEARCH PAPERS

- Induction of resistance in common bean by *Rhizobium leguminosarum* bv. *phaseoli* and decrease of common bacterial blight**

E. Osdaghi, M. Shams-Bakhsh, A. Alizadeh, M. R. Lak and H. Hatami Maleki

45

- Efficacy of different biological control agents against major postharvest pathogens of grapes under room temperature storage conditions**

R. Senthil, K. Prabakar, L. Rajendran and G. Karthikeyan

55

- Newly-assessed fungicides for the control of cypress canker caused by *Seiridium cardinale***

G. Della Rocca, V. Di Lonardo and R. Danti

66

- Update on Plum pox virus distribution in Turkey**

B. Akbaş, K. Değirmenci, O. Çiftçi, A. Kaya, M. Yurtmen, N. Uzunoğulları, N. Çelik And Ş. Türkölme

75

- Nicotinic acid and nicotinamide on pear and apple flowers are not limiting factors for *Erwinia amylovora* growth when these chemicals are considered in relation to cultivar and flower age**

T. Paternoster, U. Vrhovsek, F. Mattivi, C. Gessler and I. Pertot

84

- Identification of Mungbean yellow mosaic India virus infecting *Vigna mungo* var. *silvestris* L.**

K. Naimuddin, M. Akram and G. Sanjeev

94

- Uneven distribution of mating type alleles in Iranian populations of *Cercospora beticola*, the causal agent of *Cercospora* leaf spot disease of sugar beet**

M. Bakhti, M. Arzanlou and A. Babai-Ahari

101

- Fusarium verticillioides* contamination patterns in Northern Italian maize during the growing season**

G. Venturini, G. Assante and A. Vercesi

110

- In vitro* ecology of *Seiridium cardinale* and allied species: the effect of solute stress and water potential on fungal growth**

E. Turco, B. Mori and P. Raddi

121

- Effects of fludioxonil on *Botrytis cinerea* and on grapevine defence response**

A.N. Petit, N. Vaillant-Gaveau, A.S. Walker, P. Leroux, F. Baillieul, M.L. Panon, C. Clément and F. Fontaine

130

- Evaluation of a revision of the BSPcast decision support system for control of brown spot of pear**

I. Llorente, P. Vilardell and E. Montesinos

139

SHORT NOTES

- Detection of viruses in olive trees in Croatian Istria**

M. Luigi, S. Godena, E. Đermić, M. Barba and F. Faggioli

150

- Phytotoxins produced by *Pestalotiopsis guepinii*, the causal agent of hazelnut twig blight**

M. Türkkan, A. Andolfi, M.C. Zonno, I. Erper, C. Perrone, A. Cimmino, M. Vurro and A. Evidente

154

Host range of <i>Phytophthora parsiana</i>: a new high temperature pathogen of woody plants S. Hajebrahimi and Z. Banihashemi	159
Guidelines for Contributors	167

Number 2, August 2011

REVIEW

Latent virus infections in <i>Crocus sativus</i> and <i>Crocus cartwrightianus</i> M. Grilli Caiola and F. Faoro	175
---	-----

RESEARCH PAPERS

<i>Sinorhizobium meliloti</i> can protect <i>Medicago truncatula</i> from infection by <i>Phoma medicaginis</i> M. Mrabet, E. Abdellatif, K. Zribi, R. Mhamdi and N. Djebali	183
Effect of potassium silicate and electrical conductivity in reducing powdery mildew of hydroponically grown tomato A. Garibaldi, G. Gilardi and M.L. Gullino	192
Distribution of races of <i>Pyrenophora tritici-repentis</i> in Algeria and identification of a new virulence type H. Benslimane, L. Lamari, A. Benbelkacem, R. Sayoud and Z. Bouznad	203
Fire blight (<i>Erwinia amylovora</i> [Burrill] Winslow) in Morocco: importance, geographical distribution and characterization M. Yaich, M.B. Fatmi, M. Bougsiba, F. Valentini, G. Scuderi, A.M. D'Onghia and G. Cirvilleri	212
Selection of a new <i>Pseudomonas chlororaphis</i> strain for the biological control of <i>Fusarium oxysporum</i> f. sp. <i>radicis-lycopersici</i> G. Puopolo, A. Raio, L.S. Pierson III and A. Zoina	228
Diversity of Iranian isolates of <i>Ralstonia solanacearum</i> M. Izadiyan and S.M. Taghavi	236
Evaluation of fungicidal and fungistatic activity of plant essential oils towards plant pathogenic and saprophytic fungi Z. Banihashemi and C. Abivardi	245
Soil application of <i>Pseudomonas fluorescens</i> and <i>Trichoderma harzianum</i> reduces root-knot nematode, <i>Meloidogyne incognita</i>, on tobacco M.R. Khan and Z. Haque	257
Occurrence of <i>Verticillium dahliae</i> defoliating pathotypes on olive trees in Tunisia M.A. Triki, S. Krid, H. Hamdi, H. Ines, R. Ioos, R. Gdoura and A. Rhouma	267
Identification of new 16SrIX subgroups, -F and -G, among '<i>Candidatus Phytoplasma phoenicum</i>' strains infecting almond, peach and nectarine in Lebanon M. Molino Lova, F. Quaglino, Y. Abou-Jawdah, E. Choueiri, H. Sobh, P. Casati, R. Tedeschi, A. Alma and P.A. Bianco	273
<i>Colletotrichum clavatum</i> sp. nov. identified as the causal agent of olive anthracnose in Italy R. Faedda, G.E. Agosteo, L. Schena, S. Mosca, S. Frisullo, G. Magnano Di San Lio and S.O. Cacciola	283
SHORT NOTES	
Serological and molecular identification of <i>Tomato yellow leaf curl virus</i> in Khuzestan province of Iran S. Malekzadeh, K. Bananej and A. Vahdat	303
Present status of some virus diseases affecting legume crops in Tunisia, and partial characterization of <i>Chickpea chlorotic stunt virus</i> A. Najar, S.G. Kumari, N. Attar and S. Lababidi	310

Incidence of virus infection in grapevines from Croatian collection plantations <i>D. Voncina, D. Badurina, D. Preiner, B. Cvetkovic, E. Maletic and J. Karoglan Kontic</i>	316
Viruses infecting figs in Egypt <i>E.K.F. Elbeshehy and T. Elbeaino</i>	327

Number 3, December 2011

REVIEW

The Biochar Effect: plant resistance to biotic stresses <i>Y. Elad, Y.E. Cytryn, Y. Meller Harel, B. Lew and E.R. Gruber</i>	335
--	-----

RESEARCH PAPERS

Resistance of European winter wheat cultivars to spot blotch at juvenile growth stages <i>Ž. Liatuskas and V. Ruzgas</i>	350
Coat protein sequence comparison of south Indian isolates of <i>Papaya ringspot virus</i> with other Indian subcontinent isolates <i>M. Srinivasulu and D.V.R. Sai Gopal</i>	359
Amino acids, carbohydrates and heritability of resistance in the <i>Theobroma cacao/Phytophthora megakarya</i> interaction <i>P.F. Djocgoue, H.D. Mbouobda, T. Boudjeko, P.O. Effa and D.N. Omokolo</i>	370
Ca-Lignosulphonate and sclerotial viability of <i>Sclerotinia sclerotiorum</i> <i>M. Montanari and G. Innocenti</i>	384
Comparative analysis of the sensitivity to distinct antimicrobials among <i>Penicillium</i> spp. causing fruit postharvest decay <i>A. Muñoz, B. López-García, A. Veyrat, L. González-Candelas and J.F. Marcos</i>	392
Sensitivity of <i>Sclerotinia homoeocarpa</i> isolates from turfgrass in Italy to demethylation-inhibiting (DMI) fungicides and iprodione <i>M. Mocioni, M.L. Gullino and A. Garibaldi</i>	408
Phenotypic and genetic characterization of Chilean isolates of <i>Botrytis cinerea</i> with different levels of sensitivity to fenhexamid <i>M. Esterio, C. Ramos, A.S. Walker, S. Fillinger, P. Leroux and J. Auger</i>	414
Occurrence, characterization and management of fruit rot of immature cucumbers under greenhouse conditions in Oman <i>A.M. Al-Sadi, F.A. Al-Said, S.M. Al-Kaabi, S.M. Al-Quraini, S.S. Al-Mazroui, I.H. Al-Mahmooli and M.L. Deadman</i>	421
Development of SCAR primers for the detection of <i>Cadophora luteo-olivacea</i> on kiwifruit and pome fruit and of <i>Cadophora malorum</i> on pome fruit <i>D. Spadaro, C. Pellegrino, A. Garibaldi and M.L. Gullino</i>	430
Genotype-isolate interaction for resistance to <i>Sclerotinia sclerotiorum</i> in sunflower <i>R. Davar, R. Darvishzadeh and A. Majd</i>	442
Identification and characterization of <i>Burkholderia</i> isolates obtained from bacterial rot of saffron (<i>Crocus sativus</i> L.) grown in Italy <i>M. Fiori, V. Ligios and A. Schiaffino</i>	450
Detection of <i>Pseudomonas syringae</i> pv. <i>actinidiae</i>, causal agent of bacterial canker of kiwifruit, from symptomless fruits and twigs, and from pollen <i>A. Gallelli, S. Talocci, A. L'Aurora and S. Loreti</i>	462
	499

SHORT NOTES

Diplodia africana causing dieback on Juniperus phoenicea: a new host and first report in the northern hemisphere		
B.T. Linaldeddu, B. Scanu, L. Maddau and A. Franceschini		473
Germination of hyphal bodies of Pythium spiculum isolated from declining cork oaks at Doñana National Park (Spain)		
P. De Vita, M.S. Serrano, L. Belbahri, L.V. García, C. Ramo and M.E. Sánchez		478
First nucleotide sequence of a Carlavirus virus of Carlavirus genus infecting caper		
A. Tiberini, T. Mascia and L. Tomassoli		482
Dissemination of Pseudomonas syringae pv. actinidiae through pollen and its epiphytic life on leaves and fruits		
E. Stefani and D. Giovanardi		489

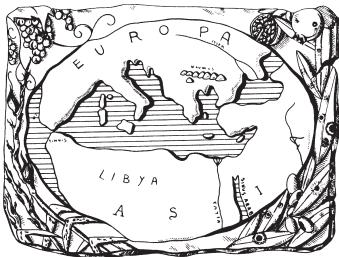
We thank for their kind cooperation the following referees who have reviewed papers in this Volume:

SARPELEH ABOLFAZL, Tehran, Iran
ABOU-JAOUDE YOUSSEF, Beirut, Lebanon
ALBANESE GIULIANA RENATA, Reggio Calabria, Italy
ALVES ARTUR, Aveiro, Portugal
ANDO KAORI, East Lansing, MI, USA
ANTONIOU POLYMNIA, Athens, Greece
ARMENGOL FORTI JOSEP, Valencia, Spain
AVANTAGGIATO GIUSEPPINA, Bari, Italy
AYLLON MARIA ANGELES, Valencia, Spain
BABADOOST MOHAMMAD, Urbana, IL, USA
BATTILANI PAOLA, Piacenza, Italy
BERTOLINI PAOLO, Bologna, Italy
BRIZARD JEAN-PAUL, Montpellier France
BUBICI GIOVANNI, Bari, Italy
BUONAURIO ROBERTO, Perugia, Italy
BUTTO TARIQ, Bristol, UK
CAĞLAYAN KADRIYE, Hatay, Turkey
CARDINALE FRANCESCA, Torino, Italy
CATARA VITTORIA, Catania, Italy
CIANCIO AURELIO, Bari, Italy
CIRVILLERI GABRIELLA, Catania, Italy
COHEN DANIEL, Hanmer Springs, New Zealand
COHEN RONI, Ramat Yishay, Israel
COSTA SOFIA, Coimbra, Portugal
CROMEY MATTHEW, Christchurch, New Zealand
CZEMBOR ELZBIETA, Radzikow, Poland
DAAYF FOUAD, Winniped, Canada

DAI NIR, Bet Dagan, Israel
DEIANA SALVATORE, Sassari, Italy
DI MARCO STEFANO, Bologna, Italy
DÍAZ-MÍNGUEZ JOSE, Salamanca, Spain
EDWARDS JACKY, Victoria, Australia
ELLIS MICHAEL, Columbus, OH, USA
ELMER WADE H., New Haven, CT, USA
ESTEVES IVANIA, Coimbra, Portugal
EVANS KATHERINE, New Town, Tasmania, Australia
EVIDENTE ANTONIO, Portici (Napoli), Italy
FAGGIOLI FRANCESCO, Bologna, Italy
FAGGIOLI FRANCESCO, Roma, Italy
FARETRA FRANCESCO, Bari, Italy
FATMI M'BAREK, Agadir, Morocco
FLETCHER JOHN, Christchurch, New Zealand
FONTAINE FLORENCE, Reims Cedex 2, France
FREEMAN STANLEY, Bet Dagan, Israel
FRISVAD JENS, Lyngby, Denmark
GAMS WALTER, Baarn, Netherlands
GARBELOTTO MATTEO, Berkeley, CA, USA
GEORGE SUNDIN, East Lansing, MI, USA
GERA ABED, Bet Dagan, Israel
GORDON THOMAS, Davis, CA, USA
GRAEFENHAN TOM, Winnipeg, MB, Canada
GROENEWALD MARISETH, Utrecht, The Netherlands
HALLEEN FRANCOIS, Stellenbosch, South Africa
HAMMOND ROSEMARIE, Beltsville, MD, USA

HANTULA JARKKO, Vantaa, Finland
HERMOSA ROSA, Salamanca, Spain
HERSHENHORN JOSEPH, Beth-Dagan, Israel
HIEMSTRA JELLE, Lisse, The Netherlands
HILL ROBERT, Canterbury, New Zealand
HOYTE STEPHEN, Auckland, New Zealand
IRITI MARCELLO, Milano, Italy
JACKSON ROBERT, Whiteknights Reading UK
JACQUES MARIE-AGNÈS, Beaucozé, France
JASPERS MARLENE, Christchurch, New Zealand
JIMÉNEZ-DÍAZ RAFAEL, Cordoba Spain
KARAOGLANIDIS GEORGIOS, Thessaloniki, Greece
KASSEMAYER HANNS-HEINZ, Freiburg, Germany
KATERERE DAVID, Tygerberg, South Africa
KHAN JAMAL AKTHAR, Muscat, Sultanate of Oman
KLOPFENSTEIN NED, Moscow, ID, USA
KOROLEV NADIA, Bet Dagan, Israel
KUMAR LAVA, Ibadan, Nigeria
KYRIAKOU ANASTASIA, Lefcosia, Cyprus
LECOMTE PASCAL, Bordeaux-Aquitaine, France
LECOQ HERVE, Monfavet, France
LLORENTE ISIDRE, Barcelona, Spain
LOGRIECO ANTONIO, Bari, Italy
LOGUERCIO LEANDRO, Ilhéus, BA, Brazil
LÓPEZ-ESCUDERO JAVIER, Cordoba, Spain
LOPEZ-LLORCA LUIS, Alicante, Spain
LORETI STEFANIA, Roma, Italy
LUQUE JORDI, Barcelona, Spain
MAKKOUK KHALED, Beirut, Lebanon
MARCHI GUIDO, Firenze, Italy
MARCO-NOALES ESTER, Valencia. Spain
MARTINI MARTA, Udine, Italy
MASTOURI FATEMEH, Geneva, NY, USA
MATTII GIOVAN BATTISTA, Firenze, Italy
MING LEE ING, Beltsville – MD, USA
MONTESINOS EMILIO, Girona, Spain
MOSTERT LIZELLE, Stellenbosch, South Africa
MUELLER HENRY, Graz, Austria
MUNDY DION, Blenheim, New Zealand
MURILLO JESUS, Pamplona, Spain
NAMBA SHIGETOU, Tokyo Japan
NAVAS-CORTÉS JUAN, Cordoba, Spain
OBRADOVIC ALEKSA, Belgrade, Serbia
OCHOA-CORONA FRANCISCO, Stillwater, OK, USA
OLMOS ANTONIO, Valencia, Spain
OSTI FABIO, Bologna, Italy
OSTRY MICHAEL, St. Paul, MN, USA
PADILLA VENTURA, La Alberca (Murcia), Spain
PALACIO-BIELSA ANA, Zaragoza, Spain
PAPLOMATAS EPAMINONDAS, Athens, Greece

PARIS HARRY, Ramat Yishay, Israel
PATOCCHI ANDREA, Wädenswil, Switzerland
TALHINHAS PEDRO, Oeiras, Portugal
PERRONE GIANCARLO, Bari, Italy
PHILLIPS ALAN, Lisbon, Spain
PITT JOHN, North Ryde, Australia
POLLASTRO STEFANIA, Bari, Italy
PULAWSKA JOANNA, Skieriewice, Poland
RAZAVI MOHAMMAD, Tehran, Iran
RIZZO DAVID, Davis, CA, USA
ROLSHAUSEN PHILIPPE, Riverside, CA, USA
ROSSI VITTORIO, Piacenza, Italy
RUBIO LUIS, Valencia Spain
RUBIO MARÍA BELEN, Salamanca, Italy
RUOCCHI MICHELINA, Napoli, Italy
RUSSO MARCELLO, Bari, Italy
SAVINO VITO, Bari, Italy
SCHROERS HANSJOSEF, Ljubljana, Slovenia
SCORTICHINI MARCO, Roma, Italy
SCOTT EILEEN, Glen Osmond, Australia
SINGH PAWAN, Mexico D.F., Mexico
SKORIC DIJANA, Zagreb, Croatia
SLIPPERS BERNARD, Pretoria, South Africa
SOSNOWSKI MARK, Adelaide, Australia
SPADARO DAVIDE, Grugliasco (Torino), Italy
STEWART ALISON, Canterbury, New Zealand
SULE SANDOR, Budapest, Hungary
SURICO GIUSEPPE, Firenze, Italy
TALHINHAS PEDRO, Oeiras, Portugal
TAN KAR-CHUN, kar-chun.tan@curtin.edu.au, Australia
TJAMOS SOTIRIOS, Athens, Greece
TRAVADON RENAUD, Davis, CA, USA
TZANETAKIS IOANNIS, Fayetteville, AR, USA
ULUDAG AHMET, Izmir, Turkey
URBES-TORRES JOSE RAMON, Summerland, BC, Canada
VANNINI ANDREA, Viterbo, Italy
VARGAS WALTER, College Station, TX, USA
VERHOEVEN J. TH. J., Wageningen, Netherland
VURRO MAURIZIO, Bari, Italy
WALLIS CHRISTOPHER, Parlier, CA, USA
WELD RICHARD, Lincoln, New Zealand
WILKEN MARKUS, Pretoria, South Africa
WILSON MICHAEL, Hamilton, New Zealand
WOODWARD STEVE, Aberdeen, United Kingdom
WU FELICIA, Pittsburgh, PA, USA
ZABALGOGEAZCOA IÑIGO, Salamanca, Spain
ZARE RASOUL, Tehran, Iran



PHYTOPATHOLOGIA MEDITERRANEA

An International Journal edited by the Mediterranean Phytopathological Union

founded by A. Ciccarone and G. Goidanich

Phytopathologia Mediterranea is covered by
AGRIS, BIOSIS, CAB, Chemical Abstracts, CSA, ELFIS,
ISI Web of Science, PHYTOMED, SCOPUS
IMPACT FACTOR 2009 (ISI): 1.117

Available on-line at: www.fupress.com/pm/ or at: www.mpunion.com

Subscriptions for 2012

Phytopathologia Mediterranea is published 3 times a year (April, August, December)
by the Mediterranean Phytopathological Union and by Firenze University Press

MPU Institutional and Individual members automatically receive the on-line version and (on request)
also the print version of the Journal.

Institutional membership dues (online access by IP address) **€ 180.00**
(college and university departments, libraries and other facilities or organizations)

Individual membership dues (online access by password) **€ 50.00**
(the journal subscription is included in the membership dues and is limited to the personal use of the member)

*The Phytopathologia Mediterranean editorial office and Firenze University Press have introduced an online manuscript submission and peer review system that will serve the needs of authors, reviewers, and editors.
You just need to register as a reader and as an author before submission.*

Online Submission and Peer Review System Available at: www.fupress.com/pm/

FOR SUBSCRIPTIONS

MEDITERRANEAN PHYTOPATHOLOGICAL UNION,
Università, P.le delle Cascine 28, 50144 Firenze, Italy
Phone: +39 055 3288279, Fax: +39 055 3288273
E-mail: phymed@unifi.it
www.mpunion.com