

ORIGINAL ARTICLES

Distribution of root-knot nematode species and their virulence on vegetables in northern temperate agro-ecosystems of the Pakistani-administered territories of Azad Jammu and Kashmir

M. Tariq-Khan · A. Munir · T. Mukhtar · J. Hallmann · H. Heuer 201

Influence of temperature and storage conditions on the hatching behavior of cereal cyst nematodes (*Heterodera avenae* Wollenweber) from Egypt

M. Baklawa · B. Niere · S. Massoud 213

Delayed incidence of stem-end rot and enhanced defences in *Aureobasidium pullulans*-treated avocado (*Persea americana* Mill.) fruit

Y.D.S. Madhupani · N.K.B. Adikaram 227

SHORT COMMUNICATIONS

Identification and characterization of two phytoplasma subgroups (16SrXI-D and 16SrXIV-A) associated with lychee (*Litchi chinensis* Sonn) in India

G.P. Rao · A.K. Tiwari · Madhupriya · D. Dubey 235

First report of *Botrytis cinerea* on *Anemarrhena asphodeloides* and *Aster tataricus*

Y. Wang · L. Jin · T. Zhu · C. Zeng 241

ORIGINAL ARTICLES

Black Sigatoka leaf streaks of banana (*Musa* spp.) caused by *Mycosphaerella fijiensis* in Ethiopia

T. Gurmu · G. Adugna · G. Berecha 245

Insecticidal efficacy of botanical food by-products against selected stored-grain beetles by the combined action with modified diatomaceous earth

C. Adarkwah · D. Obeng-Ofori · C. Ulrichs · M. Schöller 255

Natural antimicrobials in spray-dried microparticles based on cellulose derivatives as potential eco-compatible agrochemicals

R. Cortesi · A. Quattrucci · E. Esposito · A. Mazzaglia · G.M. Balestra 269

Optimizing components of pheromone-baited trap for the management of red palm weevil, *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae) in date palm agro-ecosystem

H.A.F. El-Shafie · J.R. Faleiro 279

Local and systemic interactions of *Aulacorthum solani* and *Myzus persicae* on tomato

O. Rechner · S. Laurenz · P. Hondelmann · H.-M. Poehling 289

Inoculative release strategies of *Macrolophus pygmaeus* Rambur (Hemiptera: Miridae) in tomato crops: population dynamics and dispersal

R. Moerkens · E. Berckmoes · V. Van Damme · L. Wittemans · L. Tirry · H. Casteels · P. De Clercq · R. De Vis 295

Wheat and barley as banker plant in the mass production of *Aphidius gifuensis* Ashmead (Hymenoptera: Braconidae) parasitizing *Schizaphis graminum* Rondani (Homoptera: Aphididae)

H.Z. Sun · X.D. Wang · Y.G. Chen · H.T. Wang · S.J. Li · Y.Q. Song 305