

Room: A0.041

Secretaries: N. BERKVEN & M. BONTE (Ghent University, Gent, Belgium)

APPLICATION TECHNOLOGY

A01 ~~N. THARSHANI & G. MIKUNTHAN (University of Jaffna, Jaffna, Sri Lanka)~~~~- Effluent water being an organic fertification and pesticification tool for eco-friendly rice pest management~~A02 **A.B. MARTINEZ, S.P. VELASCO, A. MENDEZ, J.I. FIGUEROA, M.L. ESPANA, R. CARDENAS-NAVARRO & S. PINEDA** (Universidad Michoacana de San Nicolas de Hidalgo, Tarimbaro, Mexico)

- Effects of optical brighteners used in biopesticide formulations on crops: reflectance, stomatal conductance, photosynthesis and growth

A03 **L. MOKHTARNEJAD, H.R. ETEBARIAN & M.R. FAZELI** (Faculty of Pharmacy, University of Medical Science, Tehran, Iran)

- Survival of kaolin-based formulations of three yeast isolates that control blue mould of apple

A04 **L. MOKHTARNEJAD, H.R. ETEBARIAN & M.R. FAZELI** (Faculty of Pharmacy, Tehran University of Medical Science, Iran)- Biological control of blue mould in apple with different formulation of *Candida membranifaciens*A05 **E. KORMOS, P. BUDAI, A. PONGRACZ & J. LEHEL** (Pannon University Georgikon Faculty, Keszthely. Szent István University Faculty of Veterinary Science Department of Pharmacology and Toxicology, Budapest)

- Eye irritation study of some pesticides on chorioallantoic membrane of the egg

PESTICIDE RESIDUES, TOXICOLOGY AND ECOTOXICOLOGY

R01 **F.A. EL-KARIUM ELKAUAL & Y. YOUSSEF** (Omar El-Moktar University; Faculty of Agricultural, Libya. Suez Canal University, Environmental Impact Assessment Unit, Ismailia; Egypt)

- Immune system on Catfish as biomarker for water contamination with malathion

R02 **B. MARYNISSSEN, K. DEWITTE, K. COOREVITS, B. HEREMANS & G. HAESAERT** (University College Ghent, Gent, Belgium)

- The effect and optimal dose of adjuvants combined with nicosulfuron on the control of weed grasses.

POSTERS

- R03 **B. MARYNISSSEN, K. DEWITTE, K. COOREVITS, B. HEREMANS & G. HAESAERT** (University College Ghent, Ghent, Belgium)
- The efficiency of adjuvants combined with flupyrsulfuron-methyl plus metsulfuron-methyl (Lexus XPE) on the weed control in winter wheat
- R04 **B. BECK & P. SPANOGHE** (Ghent University, Ghent, Belgium)
- Assessment of phytotoxicity of adjuvants used in crop protection
- R05 **H. BENBOUZID, H. BERREBBAH M.R. DJEBAR & G. SMAGGHE** (Centre Universitaire d'El Tarf, Algeria. Laboratoire de Toxicologie Cellulaire, Annaba University, Algeria. Departement of Crop Protection, Ghent University, Belgium)
- Side-effects of fenazaquin on a cellular model of Paramecium.
- R06 **N. SOLTANI, H. LECHEKHAB & G. SMAGGHE** (University of Annaba, Algeria and Ghent University, Ghent, Belgium)
- Impact of the insect growth regulator diflubenzuron on the biochemical composition of the cuticle of the scrimp *Penaeus kerathrus*
- R07 **M.R. DJEBAR, M. YOUNI, N. HENNOUNI, R. ROUABHI & H. BERREBBAH** (Cellular Toxicology Laboratory, Annaba University, Algeria. Department of Biology, Tebessa University Centre, Tebessa, Algeria)
- Effects of artea, a systemic fungicide, on the antioxidant system and the respiratory activity of durum wheat (*Triticum durum* L.).
- R08 **R. ROUABHII, H. DJEBAR-BERREBBAH & M.R. DJEBAR** (Department of Biology, University Larbi Tebessi, Tebessa. Laboratory of Cellular toxicology, Department of Biology, Faculty of the Sciences, Annaba university, Annaba, Algeria)
- The impact of Novaluron feeding on glycosaminoglycan and sulfhemoglobin biosynthesis in one day hatched chicks *Gallus domesticus* (L).
- R09 **S. DAHAMNA, D. HARZALLAH & N. SEKFALI** (Department of Biology; Faculty of Sciences, University Ferhat Abbas, Sétif, Algeria)
- Toxicopathological effects in rats induced by lambda-cyhalothrin
- R10 **S. DAHAMNA, D. HARZALLAH & N. SEKFALI** (Department of Biology; Faculty of Sciences, University Ferhat Abbas, Sétif, Algeria)
- Biochemical investigation of cypermethrin toxicity in the rabbit
- R11 **L. MALLEM, A. CHOUAIBIA & M.S. BOULAKOUD** (Laboratory of Animal Ecophysiology, Department of Biology, Faculty of Sciences, University Badji Mokhtar-Annaba, Annaba, Algeria)
- Comparative histopathological effects of ethylene bis dithiocarbamate on the testis in rabbits and rats

- R12 **S. DHAS & M. SRIVASTAVA** (Laboratory of Entomology, P.G. Department of Zoology, Govt. Dungar College, Rajasthan, India)
- An assessment of carbaryl residues in soil and on brinjal crop in an agricultural field in Bikaner, Rajasthan (India)
- R13 **S. DHAS & M. SRIVASTAVA** (Laboratory of Entomology, P.G. Department of Zoology, Govt. Dungar College, Rajasthan, India)
- An assessment of phosphamidon residues on mustard crop in an agricultural field in Bikaner, Rajasthan (India)
- R14 **Q. SABAH, A. RASEKH, A.H. SANGAKI & A.S. GARJAN** (Plant Protection Department, University College of Agriculture, University of Tehran. Plant Pest and Disease Research Institute, Tehran, Iran)
- The persistence toxicity of three insecticides against adult *Lysiphlebus fabarum* (Hymenoptera: Aphidiidae)
- R15 **R. ROJAS, J. USERO, J. MORILLO & H. EL BAKOURI** (Department of Chemical and Environmental Engineering, University of Seville, Seville, Spain)
- Prevention of pesticide water contamination using an in situ ecological technique
- R16 **S. NOEL & B. BILLOBAH** (Engineering Department, Agricultural Research Centre of Wallonia (CRA-W), Gembloux. Biometry, Data management and Agrometeorology Unit, Agricultural Research Centre of Wallonia (CRA-W), Gembloux, Belgium)
- Risks assessment of water pollution by pesticides at local scale (pesteaux project): study of polluting pressure
- R17 **Q. LIMBOURG, S. NOEL, L. CAPET & V. HALLET** (Agricultural Research Centre of Wallonia (CRA-W), Engineering Department, Gembloux. University of Namur, Geology Department, Namur, Belgium)
- A methodology to determine pesticides pollution sources in water catchments: study case (Belgium)
- R18 **R.A. BAYOUMI, E. AL-DEEN M. MAHMOUD & A.H. ATTEIA** (Botany and Microbiology Dept., Faculty of Science(Boys), Al-Azhar University, Cairo, Egypt)
- Bacterial biodegradation of organophosphate pesticide chlorpyrifos by Egyptian bacterial Isolates.
- R19 **E. DE ROCKER, I. VAN DE POPULIERE, P. VAN PARIJS & J. VERGAUWEN** (Vegetable Research Centre East-Flanders, Kruishoutem, Belgium)
- Survey on the implementation of reducing techniques for point source emissions of pesticides to surface water in the Poekebeek water catchment in Flanders
- R20 **H. EL BAKOURI, J. USERO, J. MORILLO & A. OUASSINI** (Department of Chemical and Environmental Engineering, University of Seville, Seville, Spain. Department of Chemical Engineering, University of Abdelmalek Essaadi, Tangier, Morocco)
- Adsorption behaviour of pesticides detected in environmental water samples on modified organic waste residues used in biopurification systems

POSTERS

- R21 **T. DE WILDE, P. SPANOGHE, J. RYCKEBOER, P. JAEKEN & D. SPRINGEL** (Ghent University, Gent. KULeuven, Heverlee and PCF-Royal Research Station Gorseme, Sint-Truiden, Belgium)
- Transport and degradation of pesticides in a biopurification system under variable flow
- R22 **B.M. KEITKOTLHAILE, P. SPANOGHE & W. STEURNBAUT** (Ghent University, Gent, Belgium)
- A meta-analysis of effects of processing on pesticide residues in fresh produce
- R23 **E. ALEXIA, B. MIHAELA, R. SUMALAN, M. NEGREA & L. AUREL** (Banat's University of Agricultural Science Timisoara, Timisoara. Institute of Public Health, Timisoara, Romania)
- Degradation of ¹⁴C-glyphosate in compost amended soils

AGRICULTURAL ENTOMOLOGY AND ACAROLOGY

- E01 **H.E. HUMMEL & M. BERTOSSA** (J. Liebig University, Giessen, Germany. Illinois Natural History Survey, Champaign, USA. Agroscope Changins-Wädenswil AVC, Cotone, Switzerland)
- Status quo of the western corn rootworm *Diabrotica virgifera virgifera*: successful management 2008 in southern Switzerland by monitoring and crop rotation
- E02 **H.E. HUMMEL, S. DINNESEN, T. NEDELEV & CH. ULRICHS** (J. Liebig University, Giessen, Germany. Illinois Natural History Survey, Champaign, USA. Humboldt-Universität zu Berlin, Berlin, Germany)
- Monitoring western corn rootworm (*Diabrotica virgifera virgifera*) adults: situation in Romania 2008
- E03 **T. NÉMETH, M. NÁDASY, Z. MARCZALI & J. TAKÁKS** (University of Pannonia, Keszthely, Hungary)
- Gaining soil containing numerous eggs of WCR for greenhouse and laboratory experiments
- E04 **H. CASTEELS, J. WITTERS, G. DE BONDT & J. DESAMBLANX** (Institute of Agricultural and Fisheries Research (ILVO), Merelbeke, Belgium)
- Validation of the Berlese-funnel technique for thrips extraction
- E05 **P. DAMOS, Ch. SPANOUDIS & M. SAVOPOULOU-SOULTANI** (University of Thessaloniki, Thessaloniki, Greece)
- Artificial diets for larvae of *Anarsia lineatella* Zeller (Lepidoptera: Gelechiidae)

- E06 **M. REZA HASSANI, G. NOURI-GANBALANI, H. IZADI & M. BASIRAT** (Islamic Azad University, Rafsanjan. University of Mohaghegh, Ardabil. University of Vali-e-Asr, Rafsanjan, Pistachio Research Institute, Rafsanjan, Iran)
- The effect of temperature on development of *Agonoscena pistaciae* (Hem.: Psyllidae)
- E07 **P.A. ALVARADO-PRINCE, M.H. HAGEMANN, J. KRANZ & R.A. SIKORA** (University Bonn, Bonn, Germany)
- Influence of a mutualistic fungal endophyte on population development of *Aphis gossypii* in the phyllosphere of squash
- E08 **A.K. MOURAD, S.M. BESHAR, I.S. ABDEL-RAZAK & K.S. MOURSI** (Alexandria University, Alexandria and Agricultural Research Centre, Alexandria, Egypt)
- Ultrastructure and description of the first immature stage of four different scale insect species (Hemiptera: Coccoidea) in Egypt.
- E09 **M. NANNINI, F. FODDI, G. MURGIA, R. PISCI, F. SANNA & M. TESTA** (Agris Sardegna DIRVE, Cagliari, Italy)
- Seasonal trends of whitefly populations in a Mediterranean tomato growing area
- E10 **S. LERCHE, H. SERMANN & C. BÜTTNER** (Humboldt University of Berlin, Berlin, Germany)
- Persistence of the entomopathogenic fungus *Lecanicillium muscarium* ZARE & GAMS under outdoor conditions
- E11 **A. ALI, H. SERMANN, S. LERCHE & C. BÜTTNER** (Humboldt University of Berlin, Berlin, Germany)
- Soil application of *Beauveria bassiana* to control *Ceratitis capitata* in semi field conditions
- ~~E12 **A. VAKEESAN & G. MIKUNTHAN** (University of Jaffna, Jaffna, Sri Lanka)~~
- ~~— Evaluation of potential biorationals for the effective management of coconut mite *Aceria guerreronis* Keifer~~
- E13 **A. DERAHSHAN** (Shahrood University of Technology, Iran)
- Natural occurrence of entomopathogenic fungi in potato fields and their virulence against potato tuber moth, *Phthorimaea operculella*
- E14 **M. NANNINI, F. FODDI, L. MANCA, R. PISCI & F. SANNA** (Agris Sardegna - DIRVE, Cagliari, Italy)
- Biological agents for whitefly control in Sardinian greenhouse tomatoes
- E15 **R.N. POLIGUI, E. HAUBRUGE & F. FRANCIS** (Gembloux Agricultural University, Gembloux, Belgium)
- Monitoring of the entomological diversity in a pesticide free orchard: investigation of the Gembloux Agricultural University conservatory

POSTERS

- E16 **Y.O. LICKAR & T.R. STEFANOVSKA** (National University of Bioresources and Environmental Science, Kiev, Ukraine)
- Diamondback moth in Ukraine: current status and prospects for use biocontrol agents
- E17 **M. KEÇEÇI & M. OKTAY GÜRKAN** (West Mediterranean Agricultural Research Institute, Antalya and Ankara University Agricultural Faculty, Ankara, Turkey)
- Functional response of *Orius laevigatus* and *Orius niger* (Hem.: Anthocoridae) to *Frankliniella occidentalis* (Thys.: Thripidae), *Tetranychus cinnabarinus* (Acar.: Tetranychidae) and *Myzus persicae* (Hom.: Aphididae)
- E18 **F. ASGHARI, K. MAHDIAN, M. BASIRAT, M. AMIN SAMIA & H. IZADI** (Vali-e-Asr University of Rafsanjan and Pistachio Research Institute, Rafsanjan, Iran)
- Functional response of *Hippodamia variegata* (Goeze) (Coleoptera: Cocinelidae) to Pistachio psylla *Agonoscaena pistaciae* (Hemiptera: Psyllidae)
- E19 **S. HESAMI, H. OSTOVAN & E. EBRAHIMI** (Islamic Azad University, Shiraz, Iran)
- Some biological characteristics of *Closterocerus formosus* (Hym: Eulophidae) parasitoid of *Liriomyza trifolii* (Dipt: Agromyzidae)
- E20 **M. BONTE, V. DE PUYSSSELEYER, B. VANDEKERKHOVE & P. DE CLERCQ** (Ghent University, Gent, Belgium)
- Artificial substrates for the rearing of predatory bugs
- E21 **B. VANDEKERKHOVE, L. PARMENTIER, G. VAN STAPPEN & P. DE CLERCQ** (Ghent University, Gent, Belgium)
- Use of plant material and Artemia cysts for the production of *Macrolophus pygmaeus*
- E22 **L. JIANCHEN, L. ZIYUN, G. JINXIA & P. WENLIANG** (Hebei Academy of Agricultural and Forestry Sciences, Baoding, China)
- Mass rearing methods and biology of *Microplitis mediator* Haliday (Hymenoptera: Braconidae) in China, a candidate for biological control of *Helicoverpa armigera* (Lepidoptera: Noctuidae)
- E23 **D. WENDORF, H. SERMANN, P. KATZ, S. LERCHE & C. BÜTTNER** (Humboldt University of Berlin, Berlin and Katz-Biotech AG, Baruth, Germany)
- Behavioural response of *Phytoseiulus persimilis* in inert materials for technical application
- E24 **M. ISMAIL, Ph. VERNON, Th. HANCE & J. VAN BAAREN** (University of Rennes, Rennes, France and Catholic University of Louvain, Louvain-la-Neuve, Belgium)
- Physiological costs of cold storage of mummies of *Aphidius ervi* (Hymenoptera: Aphidiidae): longevity is affected

- E25 **T. ABRAMISHVILI & N. CHKHAIDZE** (Georgian State Agricultural University, Tbilisi, Georgia)
- Role of bioagents in protection of wheat genetic resources
- E26 **L. BESARD, V. MOMMAERTS, G. STERK & G. SMAGGHE** (Free University of Brussels, Brussels. Biobest, Westerlo and Ghent University, Gent, Belgium)
- Compatibility of botryticides with the beneficial insect *Bombus terrestris*
- E27 **V. MOMMAERTS, G. STERK & G. SMAGGHE** (Free University of Brussels, Brussels. Biobest, Westerlo and Ghent University, Gent, Belgium)
- Compatibility of commercial Bt insecticides on micro-colonies of *Bombus terrestris*
- E28 **A. FANIGLIULO, V. FILÌ, R. PACELLA & A. CRESCENZI** (Bioagritest Test Facility, Pignola. Università degli Studi della Basilicata, Potenza, Italia)
- TEPPEKI, a selective insecticide for *Bombus terrestris*
- E29 **G. PEUSENS, R. MOERKENS, T. BELIËN & B. GOBIN** (Zoology Department, pcfruit, Sint-Truiden. Evolutionary Ecology Group, University of Antwerpen, Antwerp, Belgium)
- Side effects of plant protection products and environmental interactions on the European earwig *Forficula auricularia* L
- E30 **M. FOGEL, F. RIMOLDI, S. PINEDA, M. SCHNEIDER & A. RONCO** (CIMA, Facultades de Ciencias Exactas, UNLP, CONICET, La Plata, Argentina. CEPAVE (CCT-La Plata-CONICET- UNLP), La Plata. Universidad Michoacana de San Nicolás de Hidalgo, Tarímbaro, Michoacán, Mexico)
- Side-effects of teflubenzuron and chlorfenapyr on *Eriopsis connexa* eggs (Coleoptera: Coccinellidae)
- E31 **M.I. SCHNEIDER, S. PINEDA, N. FRANCESENA, A. TREUQUE & A.M. MARTINEZ** (CIMA, Facultades de Ciencias Exactas, UNLP, CONICET, La Plata, Argentina. CEPAVE (CCT-La Plata- CONICET- UNLP), Universidad Michoacana de San Nicolás de Hidalgo, Tarímbaro, Michoacán, Mexico)
- Compatibility of methoxyfenozide with *Eriopsis connexa*, *Chrysoperla externa*, *Trissolcus basalıs* and *Trichopoda giacomellii*
- E32 **G.R. GOLMOHAMMADI, M.J. HEJAZI, S. IRANPOUR, S.A. MOHAMMADI & M.R. SAFARNEJAD** (University of Tabriz, Tabriz and Agricultural Biotechnology Research Institute, Karaj, Iran)
- Effects of imidacloprid, indoxacarb and endosulfan on eggs, the 3rd instar and pupa of green lace wing *Chrysoperla carnea* in laboratory conditions
- E33 **T. KRAMER & R. NAUEN** (University of Jena and Bayer CropScience AG, Monheim, Germany)
- Efficacy of fiprole insecticides on brown planthoppers, *Nilaparvata lugens* (Stål) on rice

POSTERS

- E34 **M. PATTEN & R. NAUEN** (University of Jena and Bayer CropScience AG, Monheim, Germany)
- Baseline studies and insecticide resistance monitoring in populations of the Damsion hop aphid, *Phorodon humuli* Schrank
- E35 **S. PINEDA, N. ZARATE, O. DIAZ, A.M. MARTINEZ, M.I. SCHNEIDER, J.I. FIGUEROA & G. SMAGGHE** (Universidad Michoacana de San Nicolas de Hidalgo, Tarimbaro. Universidad Autonoma de San Luis Potosi, Mexico. CEPAVA, La Plata, Argentina. Ghent University, Gent, Belgium)
- Effects of larval exposure to sublethal concentrations of methoxyfenozide in *Spodoptera fregiperda* (J.E. Smith)
- E36 **S. KILANI-MORAKCHI, N. ARIBI, J-P. FARINE, G. SMAGGHE & N. SOLTANI** (Université d'Annaba, Annaba, Algérie. Université de Bourgogne, Dijon, France. Ghent University, Gent, Belgium)
- Effects of tebufenozide in reproduction of the female German cockroach, *Blattella germanica* (Dictyoptera, Blattellidae)
- E37 **A. RATTANAPAN & S. PHAIRIRON** (Maha Sarakham University, Thailand)
- Effects of rotenone from derris crude extract on esterase enzyme mechanism in the beet armyworm *Spodoptera exigua*
- ~~E38 **V. BULLANGPOTI, K. CHAWNA & Y. KAINOH** (Kasetsart University, Thailand. University of Tsukuba, Ibaraki, Japan)~~
- ~~— Acute insecticidal efficiency of some Thai botanical insecticides on *Spodoptera exigua*, *Mythimna separate*, *Adoxophyes honmai* and some insect parasitoid~~
- E39 **H.A. MESBAH, M.A. EL-KADY, A.K. MOURAD, I.S. ABDEL-RAZAK, O.A. ZAGHLOUL, M.L. BOTHINA WEHEDA & S.E. ABD-EL RAHMAN** (Alexandria University, Alexandria and Agricultural Research Centre, Alexandria, Egypt)
- Efficacy of five volatile oils and their mixtures against the mealy bug, *Icerya seychellarum seychellarum* (Westw.) Infesting sago palm, *Cycas revoluta* in Alexandria Egypt
- E40 **A. BOUGHADAD & F. DOUIRI** (Ecole Nationale d'Agriculture de Meknès and Université Moulay Ismail, Meknès, Maroc)
- Use of *Allium sativum* in pulse protection against *Callosobruchus maculatus*
- E41 **S. ABBAR, G. MORAVVEJ, S. HATEFI, M. HASSANZADEH-KHAYYAT & M. AZIZI ARANI** (Ferdowsi University, Mashad and Mashhad University of Medical Sciences, Iran)
- Vapour activity of essential oils extracted from fruit peels of two citrus species against adults and eggs of *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae)

E42 **S. ALLAHVAISI, A. ASGHAR PURMIRZA, M.H. SAFARALIZADE, G. SMAGGHE & A. SADEGHI** (Urmia University, Iran. Ghent University, Gent, Belgium and University of Kurdistan, Iran)

- Investigation on penetration of three conventional foodstuffs packaging polymers with two different thicknesses by larvae and adults of major species of stored product-pest insects

E43 **A. KOVÁCS, M. NÁDASY & C. BUDAI** (University of Pannonia, Keszthely, Hungary)

- Growing of scorpion weed (*Phacelia tanacetifolia*) in control of soil-borne pests

NEMATOTOLOGY

N01 **S. SARAFRAZ NICOO, N. SAHEBANI & H. AMINIAN** (University of Tehran, Iran)

- Using *Pseudomonas fluorescence* chao for resistance induction against nematode in tomato

N02 **M. ALI SÖGÜT & Z. DEVRAN** (Süleyman D. University, Isparta. West Mediterranean Agricultural Research Institute (BATEM), Antalya, Turkey)

- Occurrence of root-knot nematode and root lesion nematodes in potato fields of Nigde province in Turkey

N03 **M.M.M. ABD-ELGAWAD, S.S. KABEIL & M.I A. EL-TAWEEL** (National Research Centre, Dokki, Giza and Mubarak City for Scientific Research and Technology, Borg El-Arab, Alexandria, Egypt)

- Agricultural features of Borg El-Arab region with special reference to nematodes, soil and water characteristics and growing plants

N04 **S.E. SPIRIDONOV, L. WAEYENBERGE, D. STURHAN & M. MOENS** (Centre of Parasitology, Institute of Ecology and Evolution, Moscow, Russia. ILVO, Plant, Crop Protection, Merelbeke, Belgium. Julius Kuehn-Institute, Münster, Germany. Ghent University, Gent, Belgium)

- A new steinernematid nematode species from "monticulum"-group found in Europe

N05 **H. STEEL, E. DE LA PEÑA, P. FONDERIE, K. WILLEKENS, G. BORGONIE & W. BERT** (Ghent University, Gent, Belgium. Institute for Agricultural and Fisheries Research, Plant Sciences, Merelbeke, Belgium)

- Nematode community as potential indicator of compost maturity and quality

N06 **A. KURTZ & A. SCHOUTEN** (University of Bonn, Bonn, Germany)

- Shifts in banana root exudates prolifera after colonization with the non-pathogenic *Fusarium oxysporum* endophyte strain Fo162.

POSTERS

- N07 **A. SAEEDIZADEH, A. KHEIRI, J. ZAD, H. REZA ETEBARIAN, A. REZA BANDANI & F. NIYASTI** (Shahed University, Tehran. University of Tehran, Karaj. Iran)
- A study of the changes in quantitative activity of some enzymes in olive cultivars during the interaction between *Verticillium* wilt and root-knot nematode
- N08 **H. YILMAZ, B. FIRIDIN, I. DEMIR, M. MOENS & Z. DEMIRBAG** (Giresun University, Turkey. Karadeniz Technical University, Turkey. Institute for Agricultural and Fisheries Research (ILVO), Merelbeke, Belgium. Ghent University, Belgium)
- Virulence of the local entomopathogenic nematodes isolates against *Agelastica alni* L. (Coleoptera: Chrysomelidae)
- N09 **T.R. STEFANOVSKA** (National University of Bioresources and Environmental Science, Kiev, Ukraine)
- Challenges to grow oilseed rape *Brassica napus* in sugar beet rotations
- N10 **A. SAEEDIZADEH, A. KHEIRI, J. ZAD, H. REZA ETEBARIAN, A. REZA BANDANI & F. NIYASTI** (Shahed University, Tehran. University of Tehran, Karaj. Iran)
- A study of interaction between Verticillium wilt *Verticillium dahliae* and root-knot nematode *Meloidogyne javanica* in olive cultivars
- N11 **M.M. ABD-ELGAWAD & S.S. KABEIL** (National Research Centre, Dokki, Giza and Mubarak City for Scientific Research and Technology, Borg-Elarab, Alexandria, Egypt)
- Changes in protein content and enzymatic activity of tomato roots in response to nematode infection
- N12 **S. SARAFRAZ NICOO, N. SAHEBANI & H. AMINIAN** (University of Tehran, Iran)
- Ros(s) roles in induced resistance plants by salicylic acid against *Meloidogyne javanica*
- N13 **Z.Ç. YILMAZ, A-M. DEEREN, N. DE SUTTER & N. VIAENE** (ILVO, Merelbeke, Belgium)
- Species of *Heterodera* cysts in cereal fields in Flanders
- N14 **Z. DEVRAN, MEHMET A. SÖGÜT, A. ÖZARSLANDAN, M. GÖÇMEN & H. IKTEN** (West Mediterranean Agricultural Research Institute (BATEM), Antalya. Süleyman D. University, Isparta. Plant Protection Research Institute, Adana, Turkey)
- Distribution of root-knot nematodes (*Meloidogyne* spp.) in the west Mediterranean region of Turkey
- N15 **M. RADIVOJEVIC & T. STANCIC** (Institute for Phytomedicine, Faculty of Agriculture, Beograd, Serbia)
- Hatch test of potato cyst nematodes from Serbia with selected stimulants
- N16 **S. MENNAN, A. EKDIUGLU & S. UZUN** (Ondokuz Mayıs University, Samsun, Turkey)
- Relationship between soil nematode communities and mulching in vegetable growing greenhouses

POSTERS

- N17 **W. WETCHAYUNT, A. RATTANAPAN & S. PHAIRIRON** (Biological Control Research Group, Ministry of Agricultural and Cooperative, Thailand. Department of Biology, Faculty of Science, Maha Sarakham University, Thailand)
- Temperature effect on novel entomopathogenic nematode *Sternernema siamkayai* Stock, Somsook and Reid (n.sp.) and its efficacy against *Spodoptera litura* Fabricius (Lepidoptera: Noctuidae)
- N18 **E.M.A. NOWEER & M.D. DAWOOD** (Plant pathology Department, Botany Department, National Research Centre)
- Efficiency of propolis extract on faba bean plants and its role against nematode infection
- N19 **Z. FERJI, H. MAYAD, M. ALFALAH & D. DE WAELE** (Institut Agronomique et vétérinaire Hassan II, Agadir, Maroc. Catholic University of Leuven, Heverlee, Belgium)
- Effect of some organic amendments and biosynthetic products on root-knot nematodes *Meloidogyne javanica* infecting banana in Morocco
- N20 **N.B. PEDROCHE, L.M. VILLANUEVA & D. DE WAELE** (Benguet State University, La Trinidad, Benguet, Philippines. Catholic University of Leuven, Leuven, Belgium)
- Integrated root-knot nematode management in carrots
- N21 **T. BILEVA & B. CHOLEVA** (Agricultural University of Plovdiv, Bulgaria. Sofia University St. Kliment Ohridski, Bulgaria)
- New record of *Xiphinema index* Thorne & Allen, 1950 (Nematoda: Longidoridae) from Bulgaria with description of the male

HERBOLOGY

- H01 **P. HAMOUZ, K. HAMOUZOVÁ & J. SOUKUP** (Department of Agroecology and Biometeorology, Faculty of Agrobiological Sciences, Food and Natural Resources Czech University of Life Sciences, Czech Republic)
- Detection of *Cirsium arvense* L. in cereals using a multispectral imaging and vegetation indices
- H02 **K. HAMOUZOVÁ, P. TUMOVÁ & J. SOUKUP** (Department of Agroecology and Biometeorology, Faculty of Agrobiological Sciences, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic)
- *Apera spica-venti* - the most important weedy grass in the Czech Republic is resistant to ALS-inhibiting herbicides
- H03 **K. ADAMCZEWSKI, R. KIERZEK & K. MATYSIAK** (Institute of Plant Protection - National Research Institute, Poznan, Poland)
- Influence of long term used herbicides on resistance development in *Apera spica-venti* L. to sulfonylureas

POSTERS

- H04 **P-Y. MARECHAL, F. HENRIET & B. BODSON** (Gembloux Agricultural University (FUSAGx), Gembloux, Belgium)
- Detection of ACCase target-site resistant *Alopecurus myosuroides* (Black-Grass) in Belgian populations
- H05 **P-Y. MARECHAL, F. HENRIET & B. BODSON** (Gembloux Agricultural University (FUSAGx), Gembloux, Belgium)
- Treatment Influence on herbicide resistance level of Belgian *Alopecurus myosuroides* populations (Black-Grass)
- H06 **I.M. CALHA & F. ROCHA** (Instituto Nacional de Recursos Biológicos I.P. (INRB I.P.), Unidade de Protecção de Plantas, Oeiras, Portugal.)
- Are Portuguese *Echinochloa* spp. populations still susceptible to propanil?
- H07 **H. MENNAN, E. KAYA, M. SAHIN & D. ISIK** (Ondokuz Mayıs University, Samsun. Black Sea Research Institute, Samun, Turkey)
- Allelopathic potential of rice leaves, straw, and hull extracts on barnyard grass (*Echinochloa crus-galli*)
- ~~H08 **D. ATANASOVA** (Institute of Agriculture, Karnobat, Bulgaria)~~
- ~~Species diversity of weeds in winter wheat and winter barley fields in Bulgaria~~
- H09 **A. FANIGLIULO, V. FILÌ, C.G. MASSA & A. CRESCENZI** (Bioagritest Test Facility, Pignola. Università degli Studi della Basilicata, Potenza, Italia)
- Carfentrazone-ethyl: a new molecule for the control of hazelnut shoots.
- H10 **M. JULIA AFONSO** (Direcção-Geral de Agricultura e Desenvolvimento Rural (DGADR), Oeiras, Portugal)
- Weed management in pome fruit orchards in Portugal
- H11 **N. ZAPATA & P. MEDINA** (Facultad de Agronomía, Universidad de Concepción, Chillán, Chile)
- Phytotoxicity of *Drimys winteri* bark for weed suppression
- H12 **K. ZAMAN, A. SADEGHI, S. ZAMAN, B. MORADI, A. ROKHZADY & S. JALALI** (Young Researchers Club Sanandaj unit of Islamic Azad University, Sanandaj. Laboratory of Entomology, Department of Crop Protection, University of Kurdistan, Iran)
- The effect of weed control methods and soybean cultivars on the grain yield of soybean
- H13 **M.C. FERNANDEZ-CEREJIDO, F. BASTIDA & J. MENENDEZ** (Universidad de Huelva, Palos de la Frontera, Spain)
- The effect of several adjuvants on glufosinate effectiveness in *Conyza* species

PHYTOPATHOLOGY

- P01 **A.S. MADANI, A. GHASEMI, A. MAREFAT & K. BEHBOUDI** (University of Tehran, University of Zanjan and Plant Protection Research Institute, Tehran, Iran)
- Races of bacterial blight, *Xanthomonas citri* subsp. *malvacearum*, present in Iranian cotton crops
- P02 **K. MOHSEN, M.B. ALLAGUI & M. SAADOUN** (Plant Protection Laboratory, INRAT, Ariana, Tunisia)
- Expression of rust resistance components to *Uromyces viciae-fabae* in *Vicia faba*
- P03 **G.M. MOLINU, G. ARRAS, A. DORE, T. VENDITTI, A. PETRETTO & G. D'HALLEWIN** (Consiglio Nazionale delle Ricerche, ISPA, Sassari, Italy)
- Host-pathogen-biocontrol agent interaction as affect by sequential application of Na₂CO₃ and CaCl₂
- P04 **H. CHIKH-ROUHOU, J. MARIA ÁLVAREZ & R. GONZÁLEZ-TORRES** (Centro de Investigación y Tecnología Agroalimentaria de Aragón, Zaragoza. Spain)
- Plant tissue colonization by the fungus race 1.2 of *Fusarium oxysporum* f.sp. *melonis* in resistant melon genotypes
- P05 **A. DORE, G.M. MOLINU, T. VENDITTI, A. PETRETTO & G. D'HALLEWIN** (Consiglio Nazionale delle Ricerche, ISPA, Sassari, Italy)
- Host involvement in the improved decay control following NaHCO₃ CO-application with imazalil
- P06 **A. CHANDELIER, F. ANDRÉ & F. LAURENT** (Walloon Agricultural Research Centre, Gembloux, Belgium)
- Molecular detection of *Chalara fraxinea* in ash tree (*Fraxinus excelsior* L.) using real time PCR
- P07 **V. RAHJOO, J. ZAD, M. JAVAN-NIKKHAH, S.M. OKHOVVAT, M. REZA BIHAMTA, A. MIRZADI GOHARI, J. RAZZAGHIAN & S.S. KLEMSDAL** (University of Tehran, Iran and Norwegian Institute for Agricultural and Environmental Research, Norway)
- Biodiversity of *Fusarium* isolated from maize kernels in Iran
- P08 **T. VENDITTI, G. D'HALLEWIN, A. DORE, M.G. MOLINU & A. PETRETTO** (Consiglio Nazionale delle Ricerche, ISPA, Sassari, Italy)
- Treatments with acetic followed by curing reduce postharvest decay on citrus fruit
- P09 **J.A. MARTÍNEZ, M.J. GÓMEZ-BELLOT & S. BAÑÓN** (Universidad Politécnica de Cartagena and Unidad Asociada al CSIC-CEBAS, Murcia, Spain)
- Temperature-dependent growth of *Botrytis cinerea* isolates from potted plants

POSTERS

- P10 **S. PEIGHAMY-ASHNAEI, A. SHARIFI-TEHRANI, M. AHMADZADEH & K. BEHBOUDI** (University of Tehran, Karaj, Iran)
- Selection of bacterial antagonists for the biological control of *Botrytis cinerea* in apple (*Malus domestica*) and in comparison with application of thiabendazole
- P11 **S. PEIGHAMY-ASHNAEI, A. SHARIFI-TEHRANI, M. AHMADZADEH & K. BEHBOUDI** (University of Tehran, Karaj, Iran)
- Screening of *Pseudomonas* and *Bacillus* isolates for potential biocontrol of the damping-off of bean (*Phaseolus coccineus*)
- P12 **L. BLINDEMAN & K. HEUNGENS** (PCS - Research Centre for Ornamental Plants, Destelbergen and Institute for Agricultural and Fisheries Research (ILVO), Merelbeke, Belgium)
- Efficacy of fungicides against *Phytophthora cactorum* on viola
- P13 **H.G. KHUONG HUA, J. PANNECOUCQUE, K. DE MAEYER, J. D'AES & M. HÖFTE** (Ghent University, Gent, Belgium)
- Involvement of biosurfactants and phenazines produced by *Pseudomonas* CMR5c, CMR12c and CMR12a-mutants in biological control of *Rhizoctonia* root rot in bean
- P14 **T. DELIOPOULOS, P.S. KETTLEWELL & M.C. HARE** (Harper Adams University College, Newport, Shropshire, United Kingdom)
- Utilisation of inorganic salts in fungal crop disease management in the UK
- P15 **M. BAJJI, P. DELAPLACE, S. MAURO, P. LEPOIVRE & M. HAÏSSAM JIJAKLI** (Gembloux Agricultural University, Gembloux and Walloon Agricultural Research Centre, Gembloux, Belgium)
- Evaluation of two protein extraction protocols for *Pichia anomala* proteome analysis
- P16 **Z. AZAMI SARDOOEI & M. HÖFTE** (Ghent University, Gent, Belgium)
- Potential of BTH to induce resistance against *Botrytis cinerea* in tomato, bean and cucumber
- P17 **X. XU, E. WEDGWOOD, A. BERRIE & T. O'NEILL** (East Malling Research, West Malling and ADAS Boxworth, Boxworth, Cambs, UK)
- Infection of raspberry leaves by *Botrytis cinerea* in relation to leaf and cane age
- P18 **L. DE MAEYER, C. SCHOEVAERTS, K. D'HAEMER, D. PEETERS, A. GOMAND, H. GOOSSENS, J. VERCAMMEN & T. DECKERS** (Bayer CropScience, Diegem and Pcfuit, Sint-Truiden, Belgium)
- The use of Aliette WG for controlling dead buds on pear conference with additional effect on the return bloom and on flower bud quality

- P19 **M.M.A. AMER, I. ABOU-EL-SEOUD, M.R. RASMY & M.M. KHATER** (Alexandria University, Alexandria, Egypt)
- White mould of common bean incited by *Sclerotinia sclerotiorum* Lib. de Bary in Egypt
- P20 **L. NÉMETH & V. ÖRDÖG** (University of West Hungary, Mosonmagyaróvár, Hungary)
- The effect of microalgae on the causal agent of grape downy mildew (*Plasmopara viticola*)
- P21 **Z. ALIAKBARI, H. AMINIAN, M. MIRABOLFATHI & R. KARAMI-OSBOO** (University of Tehran, Karaj and Iranian Plant Protection Research Institute, Tehran, Iran)
- Determination of deoxynivalenol in corn crop at Ardabil province in Iran and related *Fusarium* species in 2007-2008
- P22 **N. ALE-AGHA, M. JENSEN & M. BRASSMANN** (University of Duisburg-Essen, Essen, Germany)
- Biodiversity and new records of microfungi in the Ruhr Area (North Rhine Westfalia), Germany
- P23 **G. ALBERONI, D. CAVALLINI, M. COLLINA & A. BRUNELLI** (University of Bologna, Bologna, Italy)
- Baseline sensitivity of *Stemphylium vesicarium*, the causal agent of pear brown spot, to boscalid
- P24 **S. AHMAD, M. VAN HULTEN, R. GORDON-WEEKS, C.M.J. PIETERSE & J. TON** (Rothamsted Research, Harpenden, Herts, United Kingdom and Utrecht University, Utrecht, the Netherlands)
- Natural variation in defence responsiveness among Arabidopsis accessions
- P25 **E. NAGY, I. HAS & D.C. NAGY** (Agricultural Research, Turda, Romania)
- The influence of fungicides foliar treatments on the wheat yield and quality
- P26 **A. SIRIGU, M. NANNINI & A. CRESCENZI** (Agris Sardegna - DIRVE, Cagliari. Dipartimento di Biologia, Potenza, Italy)
- Integrated approach to TYLCD management in Sardinia (Italy)
- P27 **P. MOTALLEBI, M. JAVAN-NIKKHAH, S.M. OKHOVAT, K.B. FOTOUHIFAR & G.H. MOSAHEBI** (University of Tehran, Karaj, Iran)
- Differentiation of *Magnaporthe grisea* species complex by rep-PCR genomic fingerprinting
- P28 **H. SEIFI, K. CURVERS & M. HÖFTE** (Ghent University, Gent and Flanders Institute for Biotechnology, Gent, Belgium)
- Role of photorespiration in the defence mechanism of sitiens, an abscisic acid-deficient tomato mutant, against the necrotrophic pathogen *Botrytis cinerea*

POSTERS

- P29 **S. TARIGHI & P. CORNELIS** (Vrije Universiteit Brussel, Brussels, Belgium)
- The Psyr_1712 gene is a homologue of ppgL in *Pseudomonas aeruginosa* which can modulate fitness and quorum sensing of *Pseudomonas syringae*
- P30 **E. VAN BUYTEN, A. STEELANDT & M. HÖFTE** (Ghent University, Gent, Belgium)
- *Pythium* spp. in the tropical aerobic rice cultivation: identification, pathogenicity, intraspecific variability and biological control
- P31 **A. YAMCHI, A. MIRLOHI, M. ROSSIGNOL, C. BEN, M. RICKAUER, R. ZAREIE & L. GENTZBITTEL** (INP-ENSAT, Castanet-Tolosan, France. Isfahan University of Technology, Isfahan, Iran. Institut de Pharmacologie et de Biologie Structural, Toulouse, France)
- Proteomics analysis of *M. truncatula*/*R. solanacearum* pathosystem
- P32 **P. TAHERI, M. FALAHATI RASTEGAR, B. JAFARPOUR, H. ROHANI & E. MAHDIKHANI MOGHADDAM** (Ferdowsi University of Mashhad, Mashhad, Iran)
- Classification and genetic variability of *Rhizoctonia* isolates associated with sugar beet in Iran
- P33 **M. NANNINI, F. FODDI, G. MURGIA, R. PISCI, F. SANNA, M. TESTA & G. PAOLO ACCOTTO** (Agris Sardegna - DIRVE, Cagliari. Istituto Virologia Vegetale, Torino, Italy)
- An epidemiological survey of TYLCD in southern Sardinia (Italy)
- P34 **A. SHARIFI-TEHRANI, S. KELLENBERGER, M. FARZANEH, M. PECHY-TARR, C. KEEL & F. MASCHER** (Agroscope Changins-Wädenswil, Nyon, Switzerland. University of Tehran, Karaj, Iran. University of Lausanne, Lausanne, Switzerland)
- Correlation between the colonization of the rhizosphere by *Pseudomonas fluorescens* and biological control of common bunt in wheat
- P35 **S. PEIGHAMY-ASHNAEI, M. FARZANEH, A. SHARIFI-TEHRANI & K. BEHBOUDI** (University of Tehran, Karaj, Iran)
- Effect of essential oils in control of plant diseases
- P36 **W. HARRAT & Z. BOUZNAD** (Institut National Agronomique, El Harrach, Algeria)
- In vivo and in vitro effects of N and K elements on wheat resistance to *Septoria tritici* leaf blotch
- P37 **N. KHOSHKHATTI, M.H. KOOHI & GH. MOSAHEBI** (University of Tehran, Karaj, Iran)
- Occurrence and distribution of Potato Virus Y strain N (PVYN) on celery in Iran
- P38 **D. GANESH SELVARAJ, P. RADOVÁN & L. HOLKOVÁ** (University of Agriculture and Forestry, Czech Republic)
- Comparative analysis of Elisa, one step RT-PCR and IC-RT-PCR for the detection of bean yellow mosaic virus in gladiolus

- P39 **B. HAJIEGHRARI** (Department of Plant Production, Moghan Junior College of Agriculture, University of Mohagheh - Ardabili, Ardabil, Iran)
- Wheat crown and root rotting fungi in Moghan area, Northwest of Iran
- P40 **M. SAFARI, M.K. HABIBI, G. MOSAHEBI & A. DIZADJI** (University of Tehran, Karaj, Iran)
- Carnation mottle virus, an important agent infecting carnation cut-flower crops in Mahallat of Iran
- P41 **H. ALAEI, M. MAES, M. HÖFTE & K. HEUGENS** (Institute for Agricultural and Fisheries Research, Merelbeke. Ghent University, Ghent, Belgium. Rafsanjan Vali-e-Asr University, Iran)
- Real time PCR-mediated monitoring of *Puccinia horiana* development in Chrysanthemum
- P42 **K.P. KORNEV, A.N. IGNATOV, A.N. KARLOV, E.V. MATVEEVA, E.SH. PEKHTEREVA & N.W. SHAAD** (Russian Research Institute of Phytopathology, Moscow and Russian Agrarian University, Moscow, Russia)
- Bacteria *Clavibacter michiganensis* subsp. *michiganensis* - pathogen of potato
- P43 **S.C. FRANCA, K. SPIESSENS, L. DE ROOSTER, S. POLLET, D. CALLENS & M. HÖFTE** (Ghent University, Ghent. Proefstation voor de Groenteteelt, Sint-Katelijne-Waver. Provinciaal Onderzoeks- en Voorlichtingscentrum voor Land- en Tuinbouw, Rumbeke-Beitem, Belgium)
- Removal of cauliflower debris may reduce the number of microsclerotia of *Verticillium longisporum* in soil
- P44 **S. SCHMITZ & A. CHANDELIER** (Walloon Agricultural Research Centre, Gembloux, Belgium)
- Phytosanitary overview of the growing season 2008 at the plant disease clinic of the Walloon Agricultural Research Centre
- P45 **B. KULEK** (Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poznań, Poland)
- Increasing the resistance of field tomato to *Pepino mosaic virus*
- P46 **H.M. ATTA, A.T. ABUL-HAMD & H.C. RADWAN** (Botany and Microbiology Dept., Faculty of Sciences, Al-Azhar University, Cairo, Egypt)
- Production of destomycin-A antibiotic by *Streptomyces* sp. using rice straw as fermented substrate
- P47 **S.K. SABBAGH & C. ROUX** (University of Zabol, Iran. University Toulouse, Castanet-Tolosan, France)
- Gene expression in *Sporisorium reilianum* exposed to root exudates

POSTERS

- P48 **G. RIJCKAERT** (ILVO-Institute for Agricultural and Fisheries Research, Unit Plant, Merelbeke, Belgium)
- The effect of fungicides on seed yield and disease control in Italian ryegrass
- P49 **R. TAHZIMA, A. HOEDEKIE, B. DE PAEPE, M. MAES & J. VAN VAERENBERGH** (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)
- Genetic characterisation of the *Ralstonia solanacearum* population in Flanders based on genes involved in host plant association
- P50 **S. COMES, A. FANIGLIULO, R. PACELLA & A. CRESCENZI** (Università degli Studie della Basilicata, Potenza. Bioagritest, Pignola, Italy)
- Severe outbreak of tomato yellow leaf curl Sardinia virus on pepper in southern Italy
- P51 **A. FANIGLIULO, V. FILÌ, C.G. MASSA & A. CRESCENZI** (Bioagritest Test Facility, Pignola. Università degli Studie della Basilicata, Potenza, Italia)
- Cyazofamide: a fungicide against *Bremia lactucae* on lettuce.
- ~~P52 **Y.P.S RATHI** (Pallavpuram, Meerut, India)~~
- ~~————— Sustainability of Indian agriculture sans pesticides~~
- ~~P53 **V. MOZAFARI & M. J. MALAKOUTI** (Vali-e-Asr University of Rafsanjan, Rafsanjan, and Tarbiat Modarres University, Tehran, Iran)~~
- ~~————— Effect of different salinity levels and Na/Ca ratios on die-back disease of pistachio~~
- ~~P54 **Y.P.S RATHI** (Pallavpuram, Meerut, India)~~
- ~~————— Epidemiology and eco-friendly management of yellow mosaic virus of grain legumes in India~~
- P55 **H. RAMEZANI** (Payame Noor University, Iran)
- Evaluation of biological efficacy of isolated *Trichoderma harzianum* Rafi against *Fusarium oxysporum* f.sp. *lycopersici* (Sacc.) W.
- P56 **P. TAHERI, B. JAFARPOUR & M. FALAHATI RASTEGAR** (Ferdowsi University of Mashhad, Mashhad, Iran)
- Detection, distribution, and purification of major potyviruses of zucchini squash in Iran
- P57 **M. KOOHI HABIBI, F.S. ABTAHI, S. WINTER & G.H. MOSAHEBI** (University of Tehran, Karaj, Iran. DSMZ Plant Virus Department, Braunschweig, Germany)
- First report of a new sobemovirus from lettuce in Iran