Index

Gvozdenac S., Ilić A., Vasić M., Nagl N., Prvulović D., Petrović G., Tanasković S., Vukajlović F. Are trypsin inhibitors responsible for suitability of different legumes for *Acanthocelides obtectus* development?

Domingue M.J., Wu Y., Myers S.W. Molecular tools for identification of *Trogoderma* species and their application to the assessment of the outcomes of interspecific competition on common commodities.

Adamaki-Sotiraki C., Rumbos C.I., Deruytter D., Athanassiou C.G. Strain effect on the development and mating compatibility of *Tenebrio molitor* L. (Coleoptera: Tenebrionidae).

Duarte S., Geirinhas H., Limao J., Pires L, Barros G., Louro L., de Sousa I., Mourato M., Carvalho M.O. Red flour beetle and the paradigm of edible pests.

Riudavets J. The black soldier fly for feed and food.

Rumbos C.I., Baliota G.V., Adamaki-Sotiraki C., Korina K., Marianna R., Athanassiou C.G. Optimising mealworm rearing for stored product and edible insects' applications: the effect of wet feed

Savoldelli S., de Milato S., Lupi D., Jucker C. Development of *Plodia interpunctella* and *Corcyra cephalonica* on cricket flour.

POSTERS

Djebbi T., Soltani A., Chargui H., Jemâa J.M.B. Feeding preferences of *Rhyzopertha dominica* (Fabricius, 1792) (Coleoptera: Bostrichidae) in four Tunisian *Triticum durum* varieties

Gabryś B., Jankowski K., Kordan B. Effect of physical characteristics of winter wheat *Triticum aestivum* L. grains on the development of grain weevil *Sitophilus granarius* L.

Kordan B., Jankowski K., Gabryś B. Development of the confused flour beetle *Tribolium confusum* Duv. on different products of millet Panicum sp.

Vukajlović F., Predojević D., Gvozdenac S., Tanasković S., Perišić V., Bogdanović A.M., Pešić S. Susceptibility of different dried fruits to infestation by *Plodia interpunctella* (Lepidoptera: Pyralidae) in laboratory conditions.

Ponce M.A., Kim T.N., Scully E.D., Morrison III W.R. Foraging preference of cigarette beetle and rice weevil when dispersing to novel food patches with and without microbes.

Section 3. BIOLOGICAL CONTROL, MATING DISRUPTION & NATURAL PRODUCTS

Castañé C., Campos J.M., Martinez M.T., del Arco L., Agustí N., Riudavets J. Control of the maize weevil, *Sitophilus zeamais*, with the larval parasitoid *Anisopteromalus calandrae* in big bags of paddy rice.

Del Arco L., Riudavets J., Castañé C. *Cephalonomia tarsalis*, a promising parasitoid for the control of the sawtoothed grain beetle.

Iturralde-García R., Velázquez-Rodríguez P., González-Vega R., Otero-León C., Moreno-Vásquez M., Del-Toro-Sánchez L., Bernal-Mercado A. Detection of the chemical defenses of *Callosobruchus maculatus* when *Anisopteromalus calandrae* is used as a biological control agent in stored chickpeas.

Hasan M.M., Yeasmin L. Application of nuclear techniques for the improvement of mass rearing of parasitoids for implementing biological control of pests

Campbell J.F., Gerken A.R., Dryer D. Influence of mating disruption treatments on male and female *Plodia interpunctella* behaviour.

Gerken A.R., Abts S.R., Dryer D., Campbell J.F. Female Indianmeal moths, *Plodia interpunctella*, respond to synthetic pheromone by altering their behavior.

Ahmad S. Potential use of different strains of entomopathogenic fungi to control store grain insect pests red flour beetle (*Tribolium castaneum*) Tenebrionidae: Coleoptera.

Agrafioti P., Ioannidis P.M., Lampiri E., Kaloudis S., Chalkidis V., Athanassiou C.G. Mating disruption of *Ephestia* sp. and *Plodia interpunctella* in a feed mill.

Duarte S., Hilário C., Tomás J., Alvito P., Boavida R., Magro A., Carvalho M.O. Interaction between *T. castaneum* and mycotoxin-producing fungi present in milled grains.

Soltani A., Djebbi T., Mathlouthi I., Haddad A., Sadraoui-Ajmi I, Yangui I., Ben Jemâa J.M. Insecticidal potential of *Rosmarinus officinalis* essential oil against *Cryptolestes ferrugineus* and its impact on sensory parameters of semolina.

Zakari-Toure M., Ormanoğlu N., Şahin B., Ferizli A.G., Gökbulut A., Emekci M. Efficacy of some botanical oils against the maize weevil, *Sitophilus zemais.*

Fürstenau B., von Moltke P. Biological and insecticidal activity of different fennel chemotypes against stored-product insects.

Kavallieratos N.G., Nika E.P., Skourti A., Perinelli D.R., Spinozzi E., Bonacucina G., Cappellacci L., MorshedlooM.R., Canale A., Benelli G., Maggi F. Mixing essential oil-based nanoemulsions: A step towards the generation of effective green grain protectants.

Kleisiari C., Kleftodimos G., Baliota G.V., Athanassiou C.G., Vlontzos G. Public acceptance regarding the use of diatomaceous earth for the protection of stored agricultural products.

Lampiri E., Moisidis I.C., Sakka M.K., Karanguran R., Losic D., Athanassiou C.G. Evaluation of graphene for the control of stored product insects.

POSTERS

Bohinc T., Jelnikar J., Batistič L., Trdan S. Efficacy of inert dusts and plant powders against *Sitophilus oryzae* adults under laboratory conditions.

Vendl T, Aulicky R., Stejskal V. Using of botanical repellent extracts for protection of food packaging.

Chrapačienė S., Dėnė L., Rasiukevičiūtė N., Valiuškaitė A. Improving the storage life of carrots by using natural product.

Section 4. CHEMICAL PEST CONTROL.

Stejskal V., Vendl T., Aulicky R. Overview of insecticide formulations used against storage pests.

Götze M.C., Sakka M., Agrafioti P., Athanassiou C.G. Resistance here, resistance there, resistance everywhere! - a dispute about phosphine and its use in the light of best management practice.

Sotiroudas V., Agrafioti P., Kaloudis E., Bantas S., Athanassiou C.G. Real time monitoring of phosphine and insect mortality in different storage facilities

Glennon D. Minimizing resistance in stored grains with web-based real-time phosphine concentration monitoring.

Agrafioti P., Sotiroudas V., Bantas S., Athanassiou C.G. Concentration-time relationships in phosphine fumigation on different species and strains - the UTH protocol.

Brabec D., Norton A., Tilley M., Scheff D. HPLC methods for quantifying depositions from aerosol pesticide applications.

Gourgouta M., Athanassiou C.G. Immediate and delayed efficacy of phosphine on different life stages of *Alphitobius diaperinus* Panzer and *Tenebrio molitor* L. (Coleoptera: Tenebrionidae).

Kósa-Tass A., Bajomi D., Szilagyi J., Verwilghen F. Sustainable storage of grains by implementing a novel protectant and versatile application technology.

Nead-Nylander B., Thoms E., Hall W., Schmidt V. Evaluation of the use of ProFume® fumigant (sulfuryl fluoride) on dried/cured tobacco leaf in storage facilities.

Nead-Nylander B., Walse S., Corbett S., Rowley J., Buckley S. Development of a scrubber for removal of sulfuryl fluoride following fumigation.

Scheff D.S., Campbell J.F. Evaluating Spinosad for use as a contact insecticide in grain bins and warehouses – A 12-month study.

Navarro H., Navarro S., Inbari N. Fumigation of edible cut flowers with ethyl formate mixed with CO_2.

POSTERS

Agrafioti P., Gourgouta M., Kateris D., Bochtis D., Athanassiou C.G. Insecticidal efficacy of contact insecticides, applied in surfaces against two major stored-product insects**.**

Aulicky R., Frydova B., Vendl T., Stejskal V. Evaluation of the occurrence of resistance in important species of storage pests to insecticides.

Glennon D. Web based fenceline phosphine monitoring validates bystander safety in commercial operations with buffer zone integrity confirmed

KaloudisE., Brabec D., Agrafioti P., Athanassiou C.G., Campbell J., D.S. Scheff, Bantas S., Sotiroudas V. Fumigation modelling of hopper-bottom railcars.

Hnatek J., Travnickova E., Lebedova J., Aulicky R., Stejskal V. Hydrogen cyanide-based fumigant (BLUEFUME®): Overview of formulations, registrations, and efficacy.

Mavridis K., Sakka M.K., Riga M., Papapostolou K.M., Vontas J., Athanassiou C.G. Development and application of molecular diagnostics for monitoring phosphine resistance in major stored product pests.

Mostoviak S., Mostoviak I. Entomocomplex during storage, species composition of pests, methods of regulating their numbers.

Quinn E., Rubin A., Rapaport A., Trostanetsky A., Menahem A., Gottlieb D. New evidence of phosphine resistance in stored product insects in Israel.

Section 5. PHYSICAL CONTROL, MODIFIED ATMOSPHERES

Adler C. Efficacy of moderate heat against all stages of the tobacco beetle *Lasioderma serricorne* at controlled humidity**.**

Machekano H., Mpofu P., Nyamukondiwa C. Cold tolerance of stored product beetles; implications on low temperature-based commodity disinfestation.

Labrot—Rhodes L., Campo E., Poujaud P. Instrumentation for monitoring shocks suffered by a big-bag filled with seeds.

Ocreto M.B., Fuertes L.A.P. Monitoring rice storability using carbon dioxide and relative humidity sensors in gastight storage

Roth T. Why conventional disinfestation processes are problematic!

Sakka M.K., Athanassiou C.G. Insecticidal effect of nitrogen on stored-product beetle populations with different susceptibility levels to phosphine in commercial chambers and silos.

Spina G. Evaluation of the Ekomille® CO2 device as an animal welfare suppression system for rodent pests management.

Walse S.S. and Abrams A.E. Controlled atmosphere QPS treatments for California tree nuts.

Pons M.J., Sempere R., Mallén J. and Guri S. Controlled atmosphere with CO_2 as an alternative to phosphine treatment for pest control in dried figs.

POSTERS

Guerra P., Montanari C., Moschini L., Conti G. The "circular" and eco-sustainable disinfestation to counter Arthropods in food industry and poultry farms through high temperatures obtained from electric air heaters connected to generators powered by biomethane.

Wong-Corral F.J., Bourne-Murrieta L.R.,. Iturralde-García R.D., Castañé C., Riudavets J. Effect of CO_2 on the mortality and fecundity of *Callosobruchus chinensis* (Coleoptera: Chrysomelidae).

Gvozdenac S., Krstić M., Ilić A, Ovuka J., Zeremski T., Radović B., Prvulović D. Biorational CO_2 fumigation of sunflower and common bean: insecticidal potential and effect on seed vitality and quality.

Iturralde-García R., Campaña-Chavarría C., Méndez-Mayboca F., Otero-León C., Arteaga G., Borboa-Flores J., Wong-Corral F. Effectiveness of high CO_2 or N_2 modified atmospheres packaging on the control of *Zabrotes subfasciatus* in stored beans.