Scientific Program

Saturday

September 2, 2017

7:00 am - 8:30 am	**Registration (Open till 4:30 pm)**
9:00 am - 9:45 am	**Opening session**
9:45 am - 10:40 am	**Keynote speakers** **1- Dr. Philippe Ponel** (9:45 am - 10:15 am) Implications for environmental changes and human activities during the Holocene **2- Dr. Laurent Pélozuelo** (10:15 am - 10:40 am) Saving creepy crawlies: Insect conservation in France
10:40 am -11:00 am	Break
11:00 am - 12:45 pm	**Session 1:** The common pistachio psyllid, *Agonoscena pistaciae*, and its control
12:45 pm - 2:15 pm	Lunch
2:15 pm - 3:45 pm	**Session 2:** Pesticides and fertilizers
3:45 pm - 4:05 pm	Break
4:05 pm - 6:05 pm	**Poster 1**
5:00 pm - 7:00 pm	**Annual meeting of The entomological society of Iran**

Sunday

September 3, 2017

8:30 am – 10:00 am	**Session 3** Physiological and molecular entomology
10:00 am - 10:20 am	Break
10:20 am - 12:30 pm	**Session 4** Medical and veterinary entomology
10:20 am - 12:30 pm	**Session 5** Systematics and biodiversity
12:30 pm - 2:00 pm	Lunch
2:00 pm - 4:00 pm	**Poster 2**
4:00 pm - 4:20 pm	Break
4:20 pm - 6:20 pm	**Poster 3**
8:30 pm – 5:00 pm	**Symposium** Biological control of greenhouse crops

Monday

September 4, 2017

8:00 am - 10:30 am	**Session 6** Integrated pest management
10:30 am - 10:45 am	Break
10:45 am - 12:45 pm	**Session 7** Chemical ecology, behavior & social insects
12:45 pm - 2:00 pm	Lunch
2:00 pm - 4:00 pm	**Closing session**

Symposium Program: Biological Control of Greenhouse Crops

Sunday

September 3, 2017

Chair: Dr. V. Baniameri

8:30 am - 8:45 am	Registration
8:45 am - 9:00 am	Welcome and general introduction of Koppert Iran. (H. Khossusi)
9:00 am - 9:30 am	Current status of biological control of greenhouse crops in Iran. (V. Baniameri)
9:30 am - 10:00 am	Sucking pests and their natural enemies. (Jenette Douma & S. Safarian)
10:00 am - 10:20 am	Break
10:20 am -11:00 am	Soil pests and their natural enemies
11:00 am - 11:30 am	Pollination of greenhouse vegetables (Edwin Muijt)
11:30 am - 12:00 pm	Scouting techniques: an overview
12:00 am – 12:30 pm	Side effects (Jenette Douma)
12:30 pm - 1:30 pm	Lunch
1:30 pm - 2:15 pm	Workshop
2:15 pm - 3:00 pm	Plant health workshop: vitality and disease suppressiveness (Ed Moerman)
3:00 pm - 5:00 pm	Discussion and closing

Speaker Abstracts

Session 1: The common pistachio psyllid, *Agonoscena pistaciae*, and its control

Session chair: Dr. M. Reza Mehrnejad

1. Management of the common pistachio psyllid *Agonoscena pistaciae* with emphasis on cultural practices and orchard sanitation
M. Reza Mehrnejad

The Iranian Pistachio Research Center, P.O. Box 77175.435, Rafsanjan, Iran, reza_mehrnejad@hotmail.com

2. New methods for controlling the common pistachio psyllid, *Agonoscena pistaciae*
S. Ali Vaziri

Kavosh Kimia Kerman, Kerman, Iran

3. Attraction of *Agonoscena pistaciae* to Male or Female Psyllid in the field
Ali Bazzaz; Mohammad Reza Hassani*; Zahra Sheibani

*Department of Entomology, Rafsanjan Branch, Islamic Azad University, Rafsanjan, Iran,
mhassanim@gmail.com

4. The effect of piperonyl butoxide on the specific activity of esterase of the common pistachio psyllid, *Agonoscena pistaciae*, resistant to amitraz
Pouyan Moslehi; Ali Alizadeh*; Mohammad Ghadamyari; Arezoo Alipour

*Department of plant protection, Faculty of Agricultural sciences, Univercity of Vali-e-Asr, Rafsanjan, Iran,
alializadeh2004@ gmail.com

Session2: Pesticides and Fertilizers

Session chair: Dr. Khalil Talebi Jahromi

1. A review on pest resistance to pesticides in Iran
   Khalil Talebi Jahromi, Mojtaba Esmaeili

   Department of Plant Protection, University College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran,
   khtalebi@ut.ac.ir

2. The effect of Diazinon on soil bacterial communities and its degradation by a mixed bacterial culture isolated from a paddy field
   Ehsan Torabi*; Khalil Talebi Jahromi; AhmadAli Pourbabaei; Masoud Ahmadzadeh

   *Department of Plant Protection, University College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran,
   eh_torabi@ut.ac.ir

3. Impact of Dayabon, a botanical pesticide, on different life stages of tobacco aphid, *Myzus nicotianae* Blackman (Hemiptera: Aphididae)
   Mehran Rezaei*; Saeid Moharramipour; Mohammad Bashiri

   * Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
   mrn.rezaei@gmail.com

4. Residue determination of common pesticides used in the red and golden varieties of apple in the Nagadeh region, West Azerbaijan province
   Saber Rahimi*; Akbar Ghassemi-Kahrizeh; Nabi khezrinejad

   *Department of Plant Protection, Mahabad Branch, Islamic Azad University, Mahabad, Iran,
   Saber.rahimi65@gmail.com

5. Impact of calcium on the host plant resistance to pests
Ali Yadollahpour

Technical Department, DATIS Agrochemicals, Tehran

Session3: Physiological and Molecular Entomology

Session chair: Dr. Mohammad Mehrabadi

1. Physiology of cold tolerance of *Trogoderma granarium* Everts (Coleoptera: Dermestidae) reared on different diets
Mozhgan Mohammadzadeh*; Hamzeh Izadi

*Department of Plant Protection, Faculty of Agriculture, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran,
P93352001@post.vru.ac.ir

2. Physiological changes of cold hardiness and cryoprotectants in overwintering pupae of the sugar beet moth, *Scrobipalpa ocellatella*
Fatemeh Ahmadi*; Saeid Moharramipour; Azam Mikani

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran,
Fatemeh.ahmadi@modares.ac.ir

3. Variation in bacterial endosymbionts associated with the date palm hopper, *Ommatissus lybicus* populations
Sarah Karimi*; Hamzeh Izadi; Majeed Askari Seyahooei; Abdoolnabi Bagheri; Pejman Khodaygan

*Department of Plant Protection, Faculty of Agriculture, Vali-e-Asr University, Rafsanjan, Iran,
s.karimi@stu.vru.ac.ir

4. Study on Yeast-Like symbionts of *Hishimonous phycitis* Distant (Hem.: Cicadellidae), vector of witches'broom disease of lime (WBDL)
Chamran Hemmati*; Saeid Moharramipour; Majeed Askari Seyahooei; Abdoolnabi Bagheri; Mohammad Mehrabadi

*Department of Agricultural Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
Chamran.hemmati@gmail.com

5. Bacterial infection deregulates epigenetic methylation by inducing Dnmt1 and Dnmt2 expression in the cotton bollworm, *Helicoverpa armigera*
Ehsan Baradaran*; Mohammad Mehrabadi; Saeid Moharramipour

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, P. O. Box: 14115-336, Tehran, Iran,
baradaran.e@modares.ac.ir

6. A transcriptome-wide inventory of neuropeptide GPCRs in the sunn pest *Eurygaster integriceps*
Mehdi Dastranj; Saeideh Asariardakani; Mohammad Reza Ghaffari; Alireza Bandani; Ghasem Hosseini Salekdeh*

Systems Biology Department, Agricultural biotechnology Research Institute of Iran, Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran,
m.dastranj@ut.ac.ir

7. RNAi of a chymotrypsin gene of *Helicoverpa armigera* by using of dsRNA expressing recombinant bacteria
Mohammad Vatanparast*; Majid Kazzazi; Ali-Akbar Razmi; Vahid Hosseininaveh

*Department of Plant Protection, Bu-Ali Sina University, Hamedan, Iran,
mdvatanparast@gmail.com

Session4: Medical and Veterinary Entomology

Session chair: Dr. Ahmad Ali Hanafi-Bojd

1. Arthropod-Borne Disease in Iran
   Hassan Vatandoost

   School of public Health, Institute for Environmental Research, Tehran University of Medical Sciences, Tehran Iran,
   hvatandoost1@yahoo.com

2. Modeling of spatial distribution of Anopheles maculipennis complex and *Culex theileri* (Diptera: Culicidae) in Isfahan province, Central Iran
   Najmeh Hesami; Mohammad Reza Abai; Ahmad Ali Hanafi-Bojd; Hassan Vatandoost

   ***** Department of Medical Entomology & Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran,
   najmehesami@yahoo.com

3. Mapping the distribution of three main malaria vectors *Anopheles stephensi*, *Anopheles culicifacies* s.l. and *Anopheles fluviatilis* s.l. in South areas of Iran under climate change
   Kamran Pakdad; Ahmad Ali Hanafi-Bojd; Hassan Vatandoost; Mohammad Mehdi Sedaghat; Ahmad Raeisi

   *****Department of Parasitology and Mycology, Paramedical School, Shahid Beheshti University of Medical Sciences, Tehran, Iran,
   kpakdad@gmail.com

4. Evaluation of the ecological characteristics the vectors of *cutaneous leishmaniasis* in a new focus of Mohammad Abad Village, Kerman Province, south-east of Iran
Abbas AghaeiAfshar; Maryam Hakimi Parizi*; Iraj Sharifi; Mohammad Amin Gorouhi

*Leishmaniasis Research Center, Kerman University of Medical Sciences, Kerman, Iran

5. Evaluation Larvicidal Activity of Coconut Oil against *Anopheles stephensi* the Main Vector of Malaria in Iran
Mahmoud Osanloo; Amir Amani; Mohammad Mehdi Sedaghat*

*Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran,
sedaghmm@tums.ac.ir

6. Modeling the distribution of *Hyaloma marginatum* in Golestan province, North of Iran
Elahe Ebrahimzade*; Abbas Farahi; Sedighe Nabian; Ahmad Ali Hanafi-Bojd

*Department of Pathobiology, Faculty of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran,
eebrahimzade@ut.ac.ir

7. Seasonal activity of adult mosquitoes (Diptera: Culicidae) in a probable dirofilariasis and West Nile infection focus in northern Iran
Shahyad Azari-Hamidian*, Behzad Norouzi, Ayoob Noorallahi

*School of Health, Guilan University of Medical Sciences, Rasht, Iran, Research Center of Health and Environment, Guilan University of Medical Sciences, Rasht, Iran, E-mail: azari@gums.ac.ir

Session5: Systematics and Biodiversity

Session chair: Dr. Shahab Manzari

1. Fossil beetle investigations in Iran: characterization of environmental traits and human activities during the Holocene
Philippe Ponel*; Morteza Djamali; Valérie Andrieu-Ponel; Lyudmila Shumilovskikh; Hamid Lahijani

   *IMBE, Aix Marseille Université, Univ Avignon, CNRS, IRD, Technopôle Arbois-Méditerranée, Bât. Villemin, BP 80, F-13545 Aix-enProvence cedex 04, France

2. Biodiversity of *Chlaenius* (Coleoptera: Carabidae) in different Localities of Taleqan region, Alborz Province
Tahereh Sheikhi; Marjan Seiedy*

   * School of Biology and Center of Excellence in Phylogeny of Living Organisms, College of Science, University of Tehran, Tehran, Iran,
mseyyedi@ut.ac.ir

3. Biodiversity of praying mantids (Dictyoptera: Mantodea) from Sindh, Pakistan
Riffat Sultana

   Department of Zoology, University of Sindh, Jamshoro, Sindh-Pakistan,
riffat.sultana@usindh.edu.pk

4. The spider family Dictynidae in Iran (Arachnida: Araneae)
Alireza Zamani

   Department of Animal Biology, School of Biology, College of Sciences, University of Tehran, Tehran, Iran,
zamani.alireza5@gmail.com.

5. Tropical forests and the specific diversity of Isoptera in French Guiana
Alireza Ensaf

Association Biodiversité Saint-Fargeau, Département de Terminologie, Fax: +33 (0)170248291, 52 rue Saint Fargeau, 75020 Paris-France,
ensaf@sfr.fr

6. The Iranian fauna of *Sphingonotus* (Oedipodinae): taxonomic problems, sympatry and microhabitat divergence
Lara-Sophie Dey; Alireza Saboori; Seyed Hossein Hojjat; Mehdi Tork; Martin Husemann*

* Centrum für Naturkunde (CeNak) - Center of Natural History, Universität Hamburg - Zoological Museum, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany, martinhusemann@yahoo.de

7. Emergence, diversity and ecological notes on the caddisfly fauna (Insecta: Trichoptera) of the Black Sea watershed in Kosovo
Halil Ibrahimi

Department of Biology, Faculty of Mathematical and Natural Sciences, University of Prishtina, Mother Theresa" p.n., 10 000 Prishtina, Republic of Kosovo,
halil.ibrahimi@uni-pr.edu

Session6: Integrated Pest Management

**** Session chair: Dr. Javad Karimzadeh****

1. Using two natural enemies in biological control of tomato leaf miner can prevent crop quantity and quality losses
Mohammad Ali Mirhosseini*; Yaghoub Fathipour; Mahmoud Soufbaf

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
Mohammad.mirhosseini@modares.ac.ir

2. Interspecific interaction between *Aphidius matricariae* and *Praon volucre* (Hym., Braconidae), the parasitoids of *Myzus persicae* (Hem., Aphididae)
Zahra Tazerouni*; Ali Asghar Talebi; Yaghoub Fathipour; Mahmoud Soufbaf

***** Department of Entomology, College of Agriculture, Tarbiat Modares University, P. O. Box 14115-336, Tehran, Iran,
ztazerouni@yahoo.com

3. Prey preference of *Amblyseius swirskii* between *Tetranychus urticae* and *Trialeurodes vaporariorum* on strawberry
Nasimeh Mortazavi*; Yaghoub Fathipour; Ali Asghar Talebi

*****Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran, n.mortazvi@modares.ac.ir

4. Effect of different grafted tomato rootstocks on damage of leafminer, *Liriomyza* sp.
Mohammad Reza Nematollahi; Ali Farhadi

*****Plant Protection Research Department, Isfahan Agricultural and Natural Resources Research and Education Center, AREEO, Isfahan, Iran, PO Box 81785-199, Isfahan, Iran,
mr_nematollahi@yahoo.com

5. Crop loss assessment of tomato leafminer *Tuta absoluta* (Lepidoptera: Gelechiidae) in Hamedan province
Elahe Rostami*; Hossein Madadi; Habib Abbasipour; Hossein Allahyari

* Department of Plant Protection, Faculty of Agriculture, Bu-Ali Sina University, Hamedan, Iran,
Elahe_20030r@yahoo.com

6. Crop loss assessment of vegetable leafminer *Liriomyza sativae* (Diptera: Agromyzidae) based on damage simulation in greenhouse cucumber
Tahereh Alaee*; Shahzad Iranipour; Roghayeh Karimzadeh

***** Department of Plant Protection, College of Agriculture, University of Tabriz, Tabriz, Iran,
t.alaee@ut.ac.ir

7. Population ecology of carob moth and relative importance of bottom-up and top-down forces in a tritrophic system
Mohammad Hassan Besharatnejad*; Javad Karimzadeh; Naser Moeini Naghadeh

* Department of Plant Protection, Isfahan Research and Education Center for Agriculture and Natural Resources, AREEO, Isfahan, Iran,
besharat10@yahoo.com

8. Direct effects of wind stress on the settlement of *Aphis nerii* and *Eurygaster integriceps* on host plants
Najmeh Sahebzadeh

Department of Plant Protection, Faculty of Agriculture, University of Zabol, Zabol, Sistan and Baloochestan, Iran,
N.sahebzadeh@uoz.ac.ir

9. Spatial signature of aphids, coccinellids and carabids in alfalfa fields
Mahsa Ghahramani, Roghaiyeh Karimzadeh* and Shahzad Iranipour

*Department of Plant Protection, Faculty of Agriculture, University of Tabriz, Tabriz, Iran
r_karimzadeh@tabrizu.ac.ir

Session7: Chemical Ecology, Behavior & Social Insects

** Session chair: Dr. Brigitte Frérot **

1. The semiochemicals: a short history and new perspectives for biocontrol
Brigitte Frérot

INRA, UMR 1392, IEES, Route de St Cyr, F-78000 Versailles, France,
brigitte.frerot@versailles.inra.fr

2. Functional olfactomics in Lepidoptera: identification and characterization of olfactory receptors in the cotton leaf worm *Spodoptera littoralis*.
Arthur De Fouchier; William Walker; Muhammad Binyameen; Fotini Koutroumpa; Camille Meslin; Gabriela Caballero-Vidal; Lucie Bastin-Heline; Corrine Royer; Anne De Cian; Jean-Paul Concordet; Mattias Larsson; Nicolas Montagné; Emmanuelle Jacquin-Joly*

*INRA, Institute of Ecology & Environmental Sciences of Paris, Route de Saint-Cyr, 78026 Versailles Cedex, France,
arthur.de-fouchier@inra.fr

3. Sex Pheromone of the carob moth, *Apomyelois* (*=Ectomyelois*) *ceratoniae* (Zeller, 1839) (Lepidoptera: Pyralidae) in different Iranian geographic populations
Saeede Noorbakhsh*; Babak HeidaryAlizadeh; Moosa Saber; Hossein Farazmand

* Department of Plant Protection, Faculty of Agriculture, University of Maragheh, Maragheh, Iran,
saeede_noorbakhsh@yahoo.com

4. Behaviours and semiochemicals in an introduced pest on palm, *Paysandisia archon* (Lepidoptera, Castniidae)
Rachid Hamidi*; Brigitte Frérot

***INRA, UMR 1392, IEES, Route de St Cyr, F-78000 Versailles, France,
rachid.hamidi@inra.fr

5. Comparing the efficacy of G trap and Dacus trap as food attractants to monitor and control olive fruit fly, *Bactrocera oleae* Rossi in olive orchards in Guilan Province
Fahimeh Bahadivand Chegini; Sara Amini Fatkohi*; Ahad Sahragard, Omid Askari

*Dept. of Plant Protection, College of Agricultural Sciences, Guilan, Rasht

6. Defense behavior progress in 14th generation of Iranian honey bee (*Apis mellifera* meda) breeding project colonies
   Gholamhossein Tahmasbi*; Rahim Ebadi; Mohammad Babaei; Naser Tajabadi; Hasan Baneh; Ali Akbar Gharedaghi; Nader Mashayekhi; Hamed Rezaei

   * Honey Bee Department, Animal Science Research of Iran, Agricultural Research Education and Extension Organization, Karaj, Iran

7. Scientific gap in the beekeeping industry in Iran
   Vahid Ghasemi

   Department of Plant Production, Faculty of Agriculture, Higher Education Complex of Shirvan, North Khorasan, Iran,
   vahidghasemi64@gmail.com

Poster Abstracts

Poster1: Saturday September 2, 4:05 pm - 6:05 pm

P1-1: Studying of new acaricide Envidorspeed (SC 24%) (abamectin+spirodiclophen) in comparison with the common acaricides against *Eotetranychus hirsti*
Azadeh Farazmand*; Gholamreza Golmohammadi; Nowzar Rastegaari; Mazaher Yousefi; Roshanak Ghorbani; Mohammadtaghi Tohidi

*Yaman Street, farazmand_a@yahoo.com

P1-2: Effect of some insecticides on *Tuta absoluta* (Lep.: Gelechiidae) and *Trichogramma brassicae* and T. evanescens (Hym.: Trichogrammatidae) under Laboratory Conditions
Sedighe Ashtari*; Qodratollah Sabahi; Khalil Talebi Jahromi

*Department of Plant Protection, University of Tehran, Karaj, Iran,
aroya95@gmail.com

P1-3: Refrigerated storage and immersion in water as two effective methods to reduce pesticides residues in greenhouse crops
Ramin Khaghani; Mohammad Ali Mirhosseini*; Yaghoub Fathipour

*Faculty of Medicine, AJA University of Medical Sciences, Tehran, Iran,
Mirhosseini1989@gmail.com

P1-4: Acaricidal effect of new botanical pesticide, Dayabon on *Tetranychus urticae* (Acari: Tetranychidae) and its predator, *Stethorus gilvifrons* (Coleoptera; Coccinellidae)
Mehran Rezaei*; Saeid Moharramipour; Mohammad Bashiri

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
mrn.rezaei@gmail.com

P1-5: Sublethal effects of diflovidazin on biological performance of two-spotted spider mite *Tetranychus urticae* (Acari: Tetranychidae)
Mohammadreza Havasi; Katayoon Kheradmand*; Hadi Mosallanejad; Yaghoub Fathipour

*Department of Entomology and Plant Pathology, College of Aboureyhan, University of Tehran, Pakdasht, Iran,
kkheradmand@ut.ac.ir

P1-6: Studying the insecticidal effect of extract & powder of *Melia azedarach* L. fruit on *Tribolium castaneum* Herbst (Col. Tenebrionidae)
Maryam Pahlavan Yali

Department of Plant Protection, Faculty of Agriculture, Shahid Bahonar University of Kerman, Iran,
mrmpahlavan@gmail.com

P1-7: The effect of four plant essential oils on feeding behavior of *Tribolium castaneum* (Col.: Tenebrionidae)
Samaneh Mahmoudvand*; Jahanshir Shakarami

* Department of Plant Protection, College of Agriculture, Lorestan University,Iran,

sm.mahmoudvand@gmail.com

P1-8: Isolation and identification of the pesticides chlorpyrifos degrading bacteria from contaminated soils

Arezoo Alipour*; Ali Alizadeh; Pejman Khodaygan

*Department of Plant Protection, Faculty of Agriculture, Vali-e-Asr University of Rafsanjan,
arezo.alipoor71@gmail.com

P1-9: Toxicity of thiacloprid as single and mixture with wood vinegar against *Leptinotarsa decemlineata* (Say)

Seyed Mehdi Hashemi*; Alireza Bandani; Khatereh Mohamadi

*Young Researchers and Elite Club, Ardabil Branch, Islamic Azad University, Ardabil, Iran,
mehdi.hashemi.27@ut.ac.ir

P1-10: Impacts of Dichlorvos and Spiromesifen on *Aphis gossypii* (Hem.: Aphididae)

Vahideh Majidifar; Khalil Talebi Jahromi; Qodratollah Sabahi; Ardavan Mardani

*****Department of Plant Protection, College of Agriculture and Natural Recources, Tehran University, Karaj, Iran,
majidifar@ut.ac.ir

P1-11: Sublethal effects of essential oils of peppermint (*Mentha spicata* L.) and coriander (*Coriandrum sativum* L.) on adults of Cotton Aphid, *Aphis gossypii* Glover, in laboratory conditions

Samaneh Akbari; Shahram Mirfakhrayi; Shahram Aramideh; Mahdieh Mousavi; Leila Mahmoodi

* Department of Plant Protection, Faculty of Agriculture Science, Urmia University, Urmia, Iran,
Sama8akbari@gmail.com

P1-12: Evaluation of persistence rate of abamectin, emamectin benzoate, acetamiprid and flubendiamide on Trichogramma brassicae and T. evanescens under semi-field conditions

Sedigheh Ashtari*; Qodratollah Sabahi; Khalil Talebi Jahromi

***Department of Plant Protection, University of Tehran, Karaj, Iran, aroya95@gmail.com

P1-13: Effect of different vermicompost and chemical fertilizer on host preference and some biological characteristics of *Bemisia tabaci* (Hem.: Aleyrodidae)

Roshanak Sedaghat*; Mohammad Amin Samih; Hadi Zohdi; Mehdi Zarrabi

*Department of Plant Protection, Faculty of Agriculture, Vali-e-Asr University, P. O. Box 771393641, Rafsanjan, Kerman, Iran, r.sedaghat@stu.vru.ac.ir

P1-14: Vermicomposts intensify the effects of herbal extracts and synthetic insecticides on population growth parameters of *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae)

Roshanak Sedaghat*; Mohammad Amin Samih; Hadi Zohdi; Mehdi Zarrabi

*Department of Plant Protection, Faculty of Agriculture, Vali-e-Asr University, P. O. Box 771393641, Rafsanjan, Kerman, Iran, r.sedaghat@stu.vru.ac.ir

P1-15: The effect of different pesticides on Citrus thrips, *Scirtothrips citri* Moulton, in citrus nurseries of southern Kerman

Somaieh Ranjbar

Plant Protection Research Department, South Kerman Agricultural and Natural Resources Research and Education Center, AREEO, Jiroft, Iran, s.ranjbar@areeo.ac.ir

P1-16: Side effects of deltamethrin and thiacloprid on demographic parameters of the aphid parasitoid, *Lysiphlebus fabarum* Marshall (Hymenoptera: Aphidiidae)

Ardavan Mardani*; Qodratollah Sabahi; Vahideh Majidifar

***Young Researchers and Elite Club, Marvdasht Branch, Islamic Azad University, Marvdasht, Iran,
Ardavanmardani@ut.ac.ir

P1-17: Fumigant and sublethal toxicity of chamomile (*Matricaria chamomilla* L.) and cumin (*Cuminum cyminum* L.) essential oils on adults of cotton aphid, *Aphis gossypii* Glover, in laboratory conditions

Mahdieh Mousavi*; Fariba Mehrkhou; Shahram Aramideh; Samaneh Akbari; Leila Mahmoodi

*Department of Plant Protection, Faculty of Agriculture Science, Urmia University, Urmia, Iran,
Mousavimahdieh@yahoo.com

P1-18: Insecticidal efficacy of Paya® (an Iranian diatomaceous earth) against adults of the Cigarette beetle, *Lasioderma serricorne* (Coleoptera: Anobiidae)

Sanaz Imanian*; Mohsen Yazdanian

***Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran, imanian.sanaz@gmail.com

P1-19: Sub-lethal effects of Spiromesifen on population growth parameters of *Tetranychus urticae* (Acari: Tetranychidae)

Fahimeh Rajaee*; Mojtaba Ghane Jahromi; Amin Sedaratian-Jahromi

* Department of Plant Protection, Faculty of Agriculture, Yasouj University, Yasouj, Iran, Fahimehrajaee3@gmail.com

P1-20: Study on efficiency of various spraying techniques for controlling two-spotted spider mite, *Tetranychus urticae* Koch., on common bean (Phaseolus vulgaris L.)

Seyed Saeid Modarres Najafabadi*; Ahmad Heidari; Abdoolnabi Bagheri; Majeed Askari Seyahooei; Hoda Zamani

***Plant Protection Research Department, Hormozgan Agricultural and Natural Resources Research and Education Center, Agricultural Research Education and Extension Organization (AREEO), Bandar Abbas, Iran,
s_modarres_705@yahoo.com

P1-21: Preparation and acaricide activity test of two nanoformulation of *Achillea millefolium* (Asteraceae) essential oil against *Tetranychus urticae* (Prostigmata: Tetranychidae)

Zeinab Ahmadi*; Moosa Saber; Gholam Reza Mahdavinia

***Department of Plant Protection, College of Agriculture, University of Maragheh, Maragheh, Iran,
Zeinabahamdi88@yahoo.com

P1-22: Primary status of insecticide resistance in the cotton bollworm, *Helicoverpa armigera* (Hubner) in Iran

Zahra Gholami; Khalil Talebi Jahromi; Hadi Mosallanejad

*Department of Plant Protection, Faculty of Agriculture, University of Tehran, Karaj, Iran,
zgholami66@gmail.com

P1-23: Effect of kaolin WP on rosaceous branch borer, *Ospheranteria* coerulescens (Col.: Cerambycidae) in Kashmar region

Hossein Farazmand*; Ali Safari; Sina Ahmadieh Rad

*Department of Agricultural Entomology Research, Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization (AREEO), Tehran, Iran,
paper@farazmand.ir

P1-24: Efficiency of kaolin WP on the serpentine leafminer, *Liriomyza trifolii* (Dip.: Agromyzidae) in Semnan region

Hossein Farazmand*; Mohammad Reza Akhlaghi; Sina Ahmadieh Rad

*Department of Agricultural Entomology Research, Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization (AREEO), Tehran, Iran,
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P1-25: Effect of kaolin on infestation reduction of Mediterranean pine bark beetle, *Orthotomicus erosus* (Coleoptera: Curculionidae)

Hossein Farazmand*; Gholamreza Salehi; Dorna Saadat; Gholamreza Golmohammadi

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P1-26: Comparative effect of chemical and botanical pesticides on the first nymph instar of white peach scale, *Pseudaulacaspis pentagona* and its predator, *Chilocorus bipustulatus* ladybird in the field conditions

Jalil Eshaghi Sani; Amir Hossein Toorani; Habib Abbasipour; Behnam Amiri

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P1-27: Study the efficiency of some insecticides on cotton bollworm (*Helicoverpa armigera* Hunb. in field conditions

Gholamreza Golmohammadi*; Taghi Darvis Mojeni; Gholamali Amin; Mohammad Sirjani

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P1-28: Contact toxicity and ovicidal activity of *Spinacia oleracea* plant extract and their nano emulsion formulation on *Tetranychus urticae*

Reza Seifi*; Saeid Moharramipour*; Maryam Negahban; Maryam Masoumi

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P1-29: The effect of essentials oil and resistant cultivars on penetration percentage of first instar larva of the Potato Tuber Moth, *Phthorimaea operculella* (Lepidoptera: Gelechiidae)

Akram Valizadeh; Ali Derakhshan Shadmehri; Maryam Ajam Hassani

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P1-30: Fumigant toxicity of essential oil from *Mentha pulegium* against different life stages of the indian meal moth, *Plodia interpunctella* (Hubner) (Lepidoptera: Pyralidae)

Maryam karami; Aurang Kavousi; Maryam Malekmohammadi; Aref Marouf*

*****Zanjan, Km 9 Airport Road, Zanjan Agricultural and Natural Resources Research and Education center,
aref.marouf@gmail.com

P1-31: Toxicity of Fenitrothion and Fenvalerate to confused flour beetle, *Tribolium confusum* (Col: Tenebrionidae)

Mohammad Saadati*; Mohammad Mehdi Rabieh

*Department of Plant Protection, Faculty of Agriculture, University of Birjand, Iran,
M-Saadati@birjand.ac.ir

P1-32: Influence of sublethal concentrations of imidacloprid on energy resources in the termite *Microcerotermes diversus* Silvesteri (Isoptera: Termitidae)
Zahra Jalilian; Behzad Habibpour*; Payman Hassibi

*****Department of Plant Protection, College of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran, habibpour_b@scu.ac.ir

P1-33: Evaluation of fumigant toxicity of four plant essential oils against adults of *Sitophilus oryzea* under laboratory conditions
Majid Mahmoudi*; Behzad Miri

*****Department of Plant Protection, University of Ilam, Ilam, Iran, Majid_parsiana@yahoo.com

P1-34: The efficiency of silver nanoparticles in control two spotted spider mite, *Tetranychus urticae* (Acari: Tetranychidae) under laboratory conditions
Ali Mirshekar*; Tayebeh Hadadi

*****Department of Plant Protection, College of Agriculture, University of Zabol. P. O. Box 98613-35856, Zabol, Iran, mirshekar@uoz.ac.ir

P1-35: Non-target toxicity of insecticides and fungicides on the predator *Nesidiocoris tenuis* (Reuter) (Hemiptera: Miridae) used in vegetable
Mohammad Ali Ziaei Madbouni

Department of Plant Protection, College of Agriculture, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran, mzm360@gmail.com

P1-36: The Effect of Ethanolic Extract of *Anagyris foetida* L. on two species of stored product
Khalil Talebi Jahromi; Amin Sadeghi; Sara Ahmadian*

*Department of Plant Protection, Faculty of Agriculture, University of Kurdistan, P. O. Box 416, Iran

P1-37: Contact toxicity of methanol extract of *Eucalyptus globulus* (Labill.) (Myrtaceae) against adults of the surface grasshopper, *Chrotogonus trachypterus* Blanchard (Orth.: Pyrgomorphidae)
Ali Mirshekar*; Mostafa Hamzei; Abbas Khani

*Department of Plant Protection, College of Agriculture, University of Zabol. P. O. Box 98613-35856, Zabol, Iran,
mirshekar@uoz.ac.ir

P1-38: Comparative toxicity of botanical and conventional pesticides against *Macrosiphum rosae* (Hom., Aphididae)
Majid Mahmoudi*; Farhad Ahmand; Seyed Ramin Halimi; Sobhan Hagizadeh

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Majid_parsiana@yahoo.com

P1-39: Compatibility of some pesticides with the zoophytophagous mirid predator *Nesidiocoris tenuis*
Mohammad Ali Ziaei Madbouni

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mzm360@gmail.com

P1-40: Effect of some micro and nanoemulsified essential oils and plant extracts on *Bemisia tabaci* (Gennadius) in laboratory conditions
Alireza Bolandnazar*; Mohammad Ghadamyari; Mohammadreza Memarzadeh; Jalal Jalali Sendi

*Department of plant protection, University Campus, University of Guilan, Rasht, Iran.

P1-41: The effect of winter-oil spray and yellow sticky traps to reduce the population of olive psylla *Euphyllura pakistanica* Loginova in Shiraz green space
Mojgan Zareiyan, Shahram Hesami*

*****Department of Entomology, Shiraz branch, Islamic Azad University, Shiraz, Iran,
shahram.hesami@gmail.com

P1-42: Tungiasis in Amazonian area
Alireza Ensaf*; Patrice Bouree

***Parasitology Department, Cochin Hospital, Paris-France,
ensaf@sfr.fr

P1-43: Studies on date palm cultivars resistant to pests
Masoud Latifian*; Yadollah Khajehzadeh

***Horticulture Research institute, Date palm and Tropical fruit research center, Agricultural Research, Education and Extension Organization (AREEO).

P1-44: Study on the effect of modified atmosphere (co2 + o2) and (N2 + O2) on control of *Oryzaephilus surinamensis* (a storage pest) on Sayer c.v. date
Bahar Rad*; Masoud Latifian; Ahmad Mostaan; Saham Ahmadizade

*Date palm and tropical fruits research center,
Baharrad2006@yahoo.com,

P1-45: A preliminary study on the effect of olive fruit fly damage on quality of olive oil
Aref Marouf*; Mohammadreza Abbasi Mozhdehi; Mohammadvali Taghaddosi; Aliakbar Keyhanian

***Plant Protection Research Department, Zanjan Agricultural and Natural Resources Research Center, AREEO, Zanjan, Iran,
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P1-46: Different radiation times of microwave ray could stimulate development of *Callosobruchus maculatus* (Col.: Chrysomelidae) under laboratory conditions
Parvin Asadi*; Amin Sadaratian-Jahromi; Marziye Jahanbazi

***Department of Plant Protection, Faculty of Agriculture, Yasouj University, Yasuj, Iran,
p.asadi1392@gmail.com

P1-47: The effect of gamma irradiation on reproductive parameters of diamondback moth *Plutella xylostella* L. (Lep.: Plutellidae)
Shima Shokri; Shiva Osouli; Maryam Atapour; Sohrab Imani

*Department of Entomology, Science and Research Branch, Islamic Azad University, Tehran, Iran,
shima.shokri68@gmail.com

P1-48: Chemical manipulation of different tissues in oak trees by galls produced by cynipids
Masoume Paydar*; Mohsen Saeidi; Abbas Ali Zamani

*****Department of Plant Protection, College of Agriculture and Natural Resources, University of Razi, Kermanshah, Iran, Masoume.paydar@gmail.com

P1-49: Mite associates of the Mediterranean pine engraver beetle, *Orthotomicus erosus* (Wollaston) (Coleoptera: Curculionidae: Scolytinae), attacking pines in parks and forests of Markazi Province, Iran
Vahid Reza Farmahiny Farahani*; Ali Ahadiyat; Maryam Darbemamieh

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Poster2: Sunday September 3, 2:00 pm - 4:00 pm

P2-1: MicroRNA core machinery genes in the cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae)
Hamed Rahimpour*; Mohammad Mehrabadi

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, P. O. Box: 14115-336, Tehran, Iran,
hamedrahimpour@modares.ac.ir

P2-2: Bacterial infection induces RNA interference (RNAi) pathway in the cotton bollworm, *Helicoverpa armigera*

Ehsan Baradaran*; Mohammad Mehrabadi; Saeid Moharramipour

*Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, P. O. Box: 14115-336, Tehran, Iran,
baradaran.e@modares.ac.ir

P2-3: Transcriptome-wide identification of Glutathione S-transferase (GST) Genes in sunn pest, *Eurygaster integriceps*

Mehdi Dastranj*; Saeideh Asariardakani; Mohammad Reza Ghaffari; Alireza Bandani; Ghasem Hosseini Salekdeh

*****Systems Biology Department, Agricultural Biotechnology Research Institute of Iran, Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran,
m.dastranj@ut.ac.ir

P2-4: Two cytochrome P450 genes are involved in imidacloprid and acetamipride resistance in different populations of the whitefly, *Bemisia tabaci*, in Iran

Moslem Basij*; Khalil Talebi Jahromi; Vahid Hosseininaveh; Mohammad Ghadamyari

*****Department of Plant Protections, College of Agriculture, University of Jiroft, Iran.

P2-5: Identification of first foraging age loci in Iranian honeybee (*Apis mellifera meda*)

Gholamhossein Tahmasbi*; Siavash Afraz; Alireza Tarang; Seyyedeh Azadeh Javadi Taklimi; Zahra Tahmasbi; Rahim Saighalani; Payam Potki

*****Animal Science Research Institute of Iran, Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran.

P2-6: Expression of chitinase genes in entomopathogenic fungus *Metarhizium anisopliae* during the different stages of pathogenesis using quantitative real-time RT-PCR

Saeedeh Javar

Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization (AREEO), Tehran, Iran, sajavar@gmail.com

P2-7: Effect of entomopathogenic nematode, Steinernema feltiae on survival and plasma phenoloxidase activity of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in laboratory conditions

Laleh Ebrahimi*; Mohammad Reza Shiri; Gary Dunphy

*Plant Protection Research Department, Ardabil Agricultural and Natural Resources Research and Education Center, AREEO, Moghan, Iran, Ebrahimi.laleh@gmail.com.

P2-8: The effect of pilin protein of *Xenorhabdus nematophila* on cellular and humoral defensive system in *Spodoptera exigua* larvae

Reyhaneh Darsouei*; Javad Karimi

*****Biocontrol and Insect Pathology Lab Department of Plant Protection, School of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran, r.darsouei@gmail.com

P2-9: Effect of three antibiotics on biochemistry and nutritional physiology of flour moth, Ephestia *kuehniella* Zeller (Lepidoptera: Pyralidae)

Maryam Goharrostami; Jalal Jalali Sendi

*****University of Guilan,
maryam.goharrostami@yahoo.com

P2-10: Sperm structure in *Trichogramma brassicae* (Hym.: Trichogrammatidae)
Fatemeh Farsi*; Jamasb Nozari; Vahid Hosseininaveh

***** Department of Plant Protection, College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran,
farsifatemeh@ut.ac.ir

P2-11: Influence of red kidney bean seed proteins on larval gut protein pattern of Colorado potato beetle, *Leptinotarsa decemlineata* (Say)
Shabnam Ashouri; Reza Farshbaf Pourabad*; Figen Zihnioglu; Ebru Kocadag

*Department of Plant Protection, Faculty of Agriculture, University of Tabriz, Tabriz, Iran,
rfpourabad@yahoo.com

P2-12: Biochemical characterization of larval digestive alpha-amylase, pectinase and cellulase activity of *Helicoverpa armigera* (Hübner) and influence of hexaflumuron on enzymatic activity
Soheyla Fatehi; Reza Farshbaf Pourabad*; Shabnam Ashouri; Mahdieh Khorshidi

*Department of Plant Protection, Faculty of Agriculture, University of Tabriz, Tabriz, Iran,
rfpourabad@yahoo.com

P2-13: Effect of protein extract of *Prosopis farcta* and *Cicer arietinum* on digestive α-amylase activity of boll worm, *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae)
Solmaz Azimi

Department of Plant Protection, Faculty of Agriculture, Azarbaijan Shahid Madani University, Tabriz, Iran,
s_azimi2007@yahoo.com

P2-14: Effects of borax sublethal concentrations on the activity of antioxidant enzymes and lipid peroxidation changes in *Microcerotermes diversus Silvestri* (Isoptera: Termitidae)

Mina Darmiani; Behzad Habibpour*; Payman Hassibi

***Department of Plant Protection, College of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran,
habibpour_b@scu.ac.ir

P2-15: Evaluating α-amylase inhibitory activity of protein extract of *Ageratum houstonianum* and *Xanthium strumarium* on potato tuber moth *Phthorimaea operculella*

Davoud Mohammadi*; Elham Dehganpour Baroj; Naser Eivazian Kary

***Department of Plant Protection, Faculty of Agriculture, Azarbaijan Shahid Madani University, Tabriz-Iran,
d.mohammadi@ymail.com

P2-16: Activity of *Avena sativa* α-amylase inhibitors towards *Sitotroga cerealella* α-amylases in vitro and in vivo

Ehsan Borzouei*; Bahram Naseri; Gadir Nouri-Ganbalani

*Department of Plant Protection, Faculty of Agriculture and Natural Resources, University of Mohaghegh Ardabili, Ardabil, Iran.
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P2-17: Effect of some tomato cultivars on nutritional indices and food utilization of tomato fruit worm, *Helicoverpa armigera* (Hubner, 1808) (Lepidoptera: Noctuidae)

Ali Jooyandeh; Naser Moeini Naghadeh*; Hassanali Vahedi; Ali Hosseini Gharalari

Department of Plant Protection, Campus of Agriculture & Natural Resources, Razi University, Kermanshah, Iran; e-mail:
alijooy@yahoo.com

P2-18: The effect of thermal stresses on the immune system of the Potato tuber moth, *Phthorimaea operculella* (Lepidoptera: Gelechiidae)
Zahra Pourali*; Maryam Ajam Hasani

* Department of Plant Protection, Faculty of Agriculture, Shahrood University of Technology,
z.pourali.1@gmail.com

P2-19: Identification of aldose reductase in the gut of recurrent sunn pest, *Eurygaster integriceps* using proteomic technique
Mohammad Saadati*; Mohammad Mehdi Rabieh

*****Department of Plant Protection, Faculty of Agriculture, University of Birjand, Iran,
M-Saadati@birjand.ac.ir

P2-20: The effects of starvation stresses and nutritional diets on the immune system of Indian meal moth, *Plodia interpunctella* (Lepidoptera: Pyralidae)
Mitra Ebrahimi*; Maryam Ajam Hasani

*Department of Plant Protection, Faculty of Agriculture, Shahrood University of Technology, Shahrood, Iran,
m.ebrahimi_20@yahoo.com

P2-21: Dietary effect of phytoecdysteridal extracts of *Dianthus orientalis* Adams (Caryophyllacae) on fecundity of *Plutella xylostella* (L.)
Mina Kouhjani Gorji*; Saeid Moharramipour

*Research Institute of Forests and Rangelands, Agricultural Research, Education and Extension Organization (AREEO), Tehran, Iran, Mina.Gorji1981@gmail.com

P2-22: Effect of various potato cultivars on the nutritional indices and activity of some digestive enzymes of *Leptinotarsa decemlineata*

Gadir Nouri-Ganbalani*; Ehsan Borzouei

*Department of Plant Protection, Faculty of Agriculture and Natural Resources, University of Mohaghegh Ardabili, Ardabil, Iran.
gnouri@uma.ac.ir

P2-23: Effect of phytoecdysteroid extract of *Dianthus orientalis* and *Silene aucheriana* on enzyme activities and energy reserves of *Plutella xylostella* (L)

Mina Kouhjani Gorji*; Saeid Moharramipour

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Mina.Gorji1981@gmail.com

P2-24: Study of circadian rhythm in energy reserves of *Aphis gossypii* treated with diazinon

Faezeh Bagheri*; Khalil Talebi Jahromi

***Shiraz university, college of agriculture, department of plant protection, fzhbghr.ir@gmail.com

P2-25: Study of the existence of circadian rhythm in energy consumption of *Aphis gossypii* under two light conditions

Faezeh Bagheri*; Khalil Talebi Jahromi

***Shiraz university, college of agriculture, department of plant protection, fzhbghr.ir@gmail.com

P2-26: Comparison between esterase specific activity rhythm in *Aphis gossypii* with and without diazinon treatment

Faezeh Bagheri*; Khalil Talebi Jahromi

***Shiraz university, college of agriculture, department of plant protection, fzhbghr.ir@gmail.com

P2-27: *Eurytoma trypeticola* Zerova, 1978: first report in Iran and second finding in the World

Atiyeh Naghizadeh*; Hossein Lotfalizadeh; Mostafa Nikdel

***Department of Plant Protection, College of Agriculture, Tabriz Branch, Islamic Azad University, Tabriz, Iran,
tyhnghzdh@yahoo.com

P2-28: Diversity of Caeliferan Insects in Thar Desert, Sindh

Riffat Sultana*; Mohan Lal

***Department of Zoology, University of Sindh, Jamshoro, Sindh-Pakistan,
riffat.sultana@usindh.edu.pk

P2-29: *Systole nikolskayae* (Zerova) (Hym.: Eurytomidae) pest of Salvia in the northwest of Iran

Atiyeh Naghizadeh*; Hossein Lotfalizadeh; Mostafa Nikdel

***Department of Plant Protection, College of Agriculture, Tabriz Branch, Islamic Azad University, Tabriz, Iran,
tyhnghzdh@yahoo.com

P2-30: New and little known species of Scopariinae (Lepidoptera: Crambidae) from Iran

Helen Alipanah

Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection (IRIPP), Agricultural Research Education and Extension Organization (AREEO), Tehran, Iran,
alipanah@iripp.ir

P2-31: Variation in the wing area of some Iranian populations of *Trichogramma brassicae* (Hym.: Trichogrammatidae)

Fatemeh Farsi*; Jamasb Nozari; Vahid Hosseininaveh

***Department of Plant Protection, College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran, farsifatemeh@ut.ac.ir

P2-32: Morphometric comparison of the forewing characteristics in *Apis mellifera* L. (Hymenoptera, Apidae) population of Khouzestan Province
Azadeh Kalantarhormozi; Rouhollah Rajabi*; Maryam Seifouri

***Plant Protection Department, Agriculture Faculty, Dezful Branch, Islamic Azad University, Dezful, Iran,
roholla_rajabi@yahoo.com

P2-33: *Psyllopsis discrepans* (Flor, 1861) (Hemiptera: Sternorrhyncha: Psylloidea: Psyllidae): a new record for Iran
Arezoo Jamshidi*; Hassanali Vahedi; Abbasali Zamani

***Department of Plant Protection, College of Agriculture, Razi University, Kermanshah, Iran,
ajamshidi103@gmail.com

P2-34: A faunistic study on lepidopteran pests at cucumber greenhouses in southern regions of Kerman province
Amin Moghbeli Gharaei*; Mahdi Ziaaddini; Mohammad Amin Jalali; Helen Alipanah

1.Department of Crop Protection, Faculty of Agriculture, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran,
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P2-35: The first record of *Mycetaulus bipunctatus* (Fallén) (Diptera: Piophilidae) from Iran
Saeed Mohamadzade Namin

Department of Plant Protection, Faculty of Agriculture, Varamin-Pishva branch, Islamic Azad University, Varamin, Iran,
saeedmn2005@gmail.com

P2-36: First record of *Seioptera vibrans* (L.) (Diptera: Ulidiidae) from Iran
Saeed Mohamadzade Namin

Department of Plant Protection, Faculty of Agriculture, Varamin-Pishva branch, Islamic Azad University, Varamin, Iran,
saeedmn2005@gmail.com

P2-37: First record the family Diastatidae (Diptera) from Iran
Saeed Mohamadzade Namin

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saeedmn2005@gmail.com

P2-38: First report of *Bucculatrix albella* Stainton, 1867 (Lepidoptera: Bucculatricidae) from Iran
Saeed Moodi*; Helen Alipanah

*****Department of plant protection, College of Agriculture, University of Birjand, Iran,
Smoodi@birjand.ac.ir

P2-39: The *Lithosiini* (Lep. Erebidae) of Iran: An identification guide to the genera and species.
Maryam Afsarian*; Helen Alipanah; Shahab Manzari; V.Dubatolov

*Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection, Agricultural Research, Education and Extension Organization (AREEO), Iran,
Maryam.afsarian@yahoo.com

P2-40: Identification and introduction of Fabaceae seed eating eurytomids (Hym.: Eurytomidae) in North-Khorasan province

Ali Asghar Kalantary*; Mohammad Hassan Safaralizadeh; Hossein Lotfalizadeh; Ebrahim Sadeghi; Shahram Aramideh; Shahram Mirfakhraeai

***Department of Plant Protection, University of Urmia, Iran,
kalantary28@yahoo.com

P2-41: New finding of *Fenusella hortulana* (Klug, 1818) (Hymenoptera: Tenthredinidae) in Iran

Hossein Lotfalizadeh; Tahereh Shiri*

Department of Plant Protection, College of Agriculture, University of Maragheh, East-Azerbaijan province, Iran

P2-42: Identification of some arthropods related to *Eulecanium tiliae* (Hemiptera: Coccidae) on cherry orchards of Sahneh (Kermanshah province)

Zahra Zareii*; Hassanali Vahedi; Maryam Darbemamieh

***Department of Plant Protection, Campus of Agriculture and Natural Resources, Razi University, Kermanshah,
Zahra.Zareii94@gmail.com

P2-43: Polymorphism of *Oenopia conglobata* (Linnaeus) (Coleoptera: Coccinellidae) in Shahrood and Bastam regions in Semnan province

Mona Toozandehjani*; Maryam Ajam Hasani

***Department of Plant Protection, Faculty of Agriculture, Shahrood University of Technology, Iran,
m_too69@yahoo.com

P2-44: First Report of *Echthromyrmex sehitlerolmez* Koçak & Kemal, 2008 (Neu.: Myrmeleontidae) from Iran

Abolfazl Hajiesmaeilian*; Reza Vafaei Shoushtari; Fariba Mozaffarian; Ebrahim Ebrahimi; Victor Krivokhatsky

***Department of Entomology, College of Agriculture, Arak Branch, Islamic Azad University, Arak, Iran,
ahajiesmaeilian@gmail.com

P2-45: New records of chrysidid wasps (Hymenoptera: Chrysididae) from Iran

Saeid Iranmanesh; Mohammad Purrezaali*; Seyed Massoud Madjdzadeh; Franco Strumia

***Department of Biology, Faculty of Sciences, Shahid Bahonar University of Kerman, Kerman, Iran,
madjdzadeh@uk.ac.ir

P2-46: New finding of the genus Aradophagus (Hymenoptera: Platygastridea) from Iran

Maryam Asadi-Farfar*; Hossein Lotfalizadeh; Yones Karimpour; Virgilio Caleca

*Department of Plant Protection, Faculty of Agriculture, Urmia University, Urmia, Iran,
Asadi.ent.65@gmail.com

P2-47: Determination of eight economically important fruit fly pests (Diptera: Tephritidae) using PCR-RFLP analyses

Marzye Koohkanzadeh*; Lida Fekrat; Mehrdad Parchami Araghi

*Department of Plant protection, Faculty of Agriculture, Ferdowsi University of Mashhad,
barani1393@gmail.com

P2-48: Population genetic structure of *Hishimonus phycitis* (Hem.: Cicadellidae), vector of lime witches' broom phytoplasma

Chamran Hemmati*; Saeid Moharramipour; Majeed Askari Seyahooei; Abdoolnabi Bagheri; Mohammad Mehrabadi

***Department of Agricultural Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
Chamran.hemmati@gmail.com

P2-49: Aphid parasitoids (Hemi.: Aphididae, Hym.: Braconidae, Aphidiinae) in Khuzestan, Southwest Iran

Mohammad Saeed Mossadegh*; Petr Stary; Ebrahim Tamoli Torfi; Reza Abolfarsi; Rahim Bahrami; Leili Mohseni; Arezu Shahini; Fatemeh Seifollahi; Pegah Soheilyfar; Behnaz Ravan; Fatameh Alaghemand

Plant Protection Department, College of Agriculture, Shahid Chamran University of Ahvaz, Ahwaz, Iran,
Mossadegh_ms@yahoo.com

P2-50: Genetic diversity of some Japanese races of silkworm *Bombyx mori* by ISSR (inter-simple sequence repeat) molecular marker

Rouhollah Rajabi*; Alimorad Sarafrazi; Alireza Tarang; Karim Kamali; Azadeh Kalantar Hormozi

*Islamic Azad University, Science and Research Branch, Tehran, Iran,
roholla_rajabi@yahoo.com

P2-51: The new technique for scanning the surface of the transparent cuticle of the live first-instar *Nidularia balachowskii* Bodenheimer (Hemi.: Sternorrhyncha: Coccomorpha: Kermesidae) under a light microscope

Hadis Nohrangi*; Hassan Ali Vahedi

***Department of Plant Protection, Campus of Agriculture and Natural Resources, Razi University, Kermanshah, Iran,
Hadisnehrangi@gmail.com

P2-52: Assessment of host-associated population variations of green oak leaf roller moth, *Tortrix viridana* (Lep.: Tortricidae) by using ISSR markers in the northern Zagros forests (Iran)

Hojatollah Gholami*; Hamed Ghobari; Hedieh Badakhshan; Javad Nazemi; Hemn Salehi

***Department of Plant Protection, College of Agriculture University of Kurdistan, Iran,
hojat3662@gmail.com

P2-53: Gamma-proteobacteria are crypt-dwelling primary bacterial symbionts of the shield bug, *Graphosoma lineatum*

Naeime Karamipour*; Mohammad Mehrabadi; Yaghoub Fathipour

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Karamipour.n@modares.ac.ir

P2-54: Geographic distribution of lactic acid bacteria in the gastrointestinal of the dwarf honey bee, *Apis florea* Fabricius, 1973 (Hymenoptera: Apidae)

Shabnam Parichehreh*; Gholamhossein Tahmasbi; Alimorad Sarafrazi; Sohrab Imani; Naser Tajabadi

***Department of Agricultural Entomology, Science and Research Branch, Islamic Azad University, Tehran, Iran,
parechehre@yahoo.com

P2-55: Wolbachia-induced cytoplasmic incompatibility (CI) in the parasitoid wasp, *Habrobracon hebetor*

Zeinab Bagheri*; Mohammad Mehrabadi; Ali Asghar Talebi

***Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, P. O. Box: 14115-336, Tehran, Iran,
zeinabbagheri@modares.ac.ir

P2-56: Wolbachia infection suppresses inbreeding-avoidance in *Habrobracon hebetor* to increase the likelihood of female offspring and its transmission to the next generation

Zeinab Bagheri*; Mohammad Mehrabadi; Ali Asghar Talebi

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P2-57: Facultative parthenogenetic reproduction tests on *Porphyrophora tritici* Bodenheimer (Hemiptera: Coccomorpha: Margarodidae) from Iran.

Hassanali Vahedi

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vnassah@yahoo.com

P2-58: 16S rRNA gene based identification of gut bacteria from larvae of *Ephestia kuehniella* Zeller (Lepidoptera: pyralidae)

Maryam Goharrostami*; Jalal Jalali Sendi

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P2-59: Inactivation of Arsenophonus by antibiotic treatment leads to decrease in fitness of *Ommatissus lybicus*

Sarah Karimi*; Hamzeh Izadi; Majeed Askari Seyahooei; Abdoolnabi Bagheri; Pejman Khodaygan

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P2-60: The gut microbiota of the olive psyllids, *Euphyllura straminea* and *Euphyllura pakistanica* (Hemiptera: Aphalaridae)

Tahereh Fami-Tafreshi*; Mohammad Mehrabadi; Alireza Askarianzadeh; Aiat Allah Saeedizade

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P2-61: Blood-feeding of *Culex pipiens* form molestus (Diptera: Culicidae) indoor human dwellings during cold seasons in Urban areas, Amol city, Mazandaran Province, northern Iran.

Mohsen Karami*; Seyyed Farzad Motevalli-Haghi; Saeid Mahdavi Omran; Mahdi Rajabnia; Ali Heidarpour

***Department of Parasitology and Mycology, Faculty of Medicine, Babol University of Medical Sciences, Babol, Iran,
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P2-62: Study on role of Drain fly (Diptera: Psychodinae) in the mechanical transmission of Cladosporium spp. in Babol county, Mazandaran, Iran.

Mohsen Karami*; Saeid Mahdavi Omran; Mahdi Rajabnia; Seyyed Farzad Motevalli-Haghi; Ali Heidarpour; Jaber Alipour; Aynaz Khademian

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P2-63: The bacterial infection of German cockroach (*Blatella germanica*) in hospitals, West of Iran

Jalil Nejati*; Amir Hossein Zahirnia; Amir Keyhani; Ehsan Mozaffari; Abedin Saghafipour

*Health Promotion Research Center, Zahedan University of Medical Sciences, Zahedan, Iran

P2-64: Production of *Culex pipiens* (Dip.: Culicidae) adults infected by the parasitic nematode *Strelkovimermis spiculatus* (Nematoda: Mermithidae) for autodissemination control approach

Hana Haji Allahverdipour*; Reza Talaei-Hassanloui; Javad Karimi; Yi Wang; Randy Gaugler

***Department of Plant Protection, Faculty of Agricultural Sciences and Engineering, University of Tehran, Karaj, Iran,
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P2-65: Diversity of Sand Flies (Diptera: Psychodidae) in Endemic Focus of Visceral Leishmaniasis in Azar Shahr District, East Azarbaijan Province, Iran

Teimour Hazratian

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P2-66: Species composition and monthly activity of Anopheline mosquitoes (Diptera: Culicidae) in Bashagard county, southeast of Iran

Moussa Soleimani-Ahmadi*; Alireza Sanei-Dehkordi; Seyed Aghil Jaberhashemi

*Department of Medical Entomology and Vector Control, Faculty of Health, Hormozgan University of Medical Sciences, Bandar Abbas, Iran, P.O. Box: 79145-3838,
mussa.sahmadi@gmail.com

P2-67: Biochemical basis of DDT resistance in *Anopheles stephensi* (Diptera: Culicidae) in South-eastern of Iran

Mohammad Amin Gorouhi*; Mohammad Ali Oshaghi; Hassan Vatandoost; Ahmad Ali Enayati; Abbas AghaeiAfshar; Ahmad Ali Hanafi-Bojd; Fatemeh Kamiabi; Yaser Salim Abadi; Alireza Sanei-Dehkordi; Azim Paksa

*Department of Vector Biology, School of Health, kerman university of medical sciences, amin_gruhi@yahoo.com

P2-68: Identification of chemical constituents and Mosquito Larvicidal potential of Essential Oil from areal parts of an Iranian Indigenous Plant Tanacetum persicum

Alireza Sanei-Dehkordi*; Moussa Soleimani-Ahmadi; Yaser Salim Abadi; Azim Paksa; Mohammad Amin Gorouhi; Golsoom Rashid

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P2-69: Effect of *Ageratum houstonianum* and *Xanthium strumarium* extracts on life span and adult emergence of *Phthorimaea operculella*

Davoud Mohammadi*; Elham Dehghanpour Baroj; Naser Eivazian Kary

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P2-70: Modeling the distribution of Rhipicephalus turanicus in Golestan province

Abbas Farahi; Elahe Ebrahimzade*; Sedighe Nabian; Ahmad Ali Hanafi-Bojd

***Department of Pathobiology, Faculty of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran,
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P2-71: Seasonal frequency of tick infestation of sheep in Golestan Province, Iran

Abbas Farahi; Elahe Ebrahimzade*; Sedighe Nabian; Ahmad Ali Hanafi-Bojd; Kamran Akbarzadeh

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P2-72: Assessment of hemolytic activity of the body extracts of *Ectomyelois ceratoniae*
Isa Jabaleh; Majid Kazzazi*; Ahmad Asoodeh

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Poster 3: **Sunday September 3, 4:20 pm - 6:20 pm**

P3-1: Life history of *Tribolium castaneum* Herbst (Col: Tenebrionidae) in response to wheat flour of different varieties
Mostafa Maroufpoor*; Ehsan Shahbaziyan

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P3-2: Seasonal flight activity of *Lobesia botrana* (Den. & Schiff.) (Lepidoptera: Tortricidae) and determination of spraying time in Khalilabad region
Reza Abedini*; Isa Jabaleh; Neda Fereydoun Nezhad

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P3-3: Effect of herbivory on preference and performance of heterospecific herbivores mediated by Cucumber Plant
Mahmoud Nazeri; Hossein Allahyari*; Seyed Hossein Goldansaz

*****Department of Plant Protection, College of Agriculture, University of Tehran, Karaj, Iran, Allahyar@ut.ac.ir

P3-4: Mutualistic ants (Hym.: Formicidae) of aphids (Hem.: Aphidae) in Khuzestan province

Mohammad Saeed Mossadegh*; Mostafa Sharaf; Shima Mohammadi; Abdullrahman S Aldawood; Ebrahim Tamoli Torfi; Reza Abolfarsi; Rahim Bahrami; Leili Mohseni; Arezu Shahini; Fatemeh Seifollahi; Pegah Soheilyfar; Behnaz Ravan; Fatameh Alaghemand

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P3-5: Influence of temperature on the functional response of *Ooencyrtus egeria* (Hymenoptera: Encyrtidae), an egg parasitoid of *Acrosternum arabicum* (Hemiptera: Pentatomidae)

Sahar Sheikh-Akbari; Mahdi Ziaaddini*; Mohammad Amin Jalali; Mohammad Amin Samih

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Ziaaddini@gmail.com

P3-6: Study of *Carum copticum* L. (Apiaceae) oil duribility on *Trialeurodes vaporariorum* Westwood (Hemiptera: Aleyrodidae) adults under greenhouse conditions

Leila Mahmoodi*; Fariba Mehrkhou

* PhD Student, Department of Plant Protection, Faculty of Agriculture, Urmia University, Urmia, Iran,
mahmoodileila2@gmail.com

P3-7: A practical decision making pattern for pest management of cucumber leafminer *Liriomyza sativae* (Diptera: Agromizidae) in greenhouse

Tahereh Alaee*; Shahzad Iranipour; Roghayeh Karimzadeh

***Department of Plant Protection, College of Agriculture, University of Tabriz, Tabriz, Iran, t.alaee@ut.ac.ir

P3-8: Resistance of different citrus species to citrus leaf-miner, *Phyllocnistis citrella* Stainton (Lep.: Gracillaridea) in Ahvaz region

Narges Karamkiani*; Ali Asghar Seraj; Behzad Habibpour; Massoumeh Ziaee

***Department of Plant Protection, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran,
plantprotectionkiani@gmail.com

P3-9: Effect of cultivars and nitrogen fertilization on Development of tomato fruit worm, *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae)

Fereshteh Salehi*; Gholamhossein Gharekhani; Jalal Shirazi; Nahid Vaez

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Iran, fsalehi1219@yahoo.com

P3-10: Effect of different tomato cultivars on some biological characteristics of *Helicoverpa armigera* (Hübner, 1808) (Lepidoptera: Noctuidae)

Ali Jooyandeh*; Naser Moeini Naghadeh; Hassanali Vahedi; Ali Hosseini Gharalari

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alijooy@yahoo.com

P3-11: Studies on phototropism of *Trialeurodes vaporariorum* (Hemiptera, Aleyrodidae) under different light wavelengths

Hajar Fakhari*; Javad Karimzadeh; Saeid Moharramipour; Hadi Nasr-Esfahani; Ali Ahadiyat; Davoud Doranian

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P3-12: Damage evaluation of the citrus leaf miner, Phyllocnistis citrella on different citrus cultivars in the north of Iran

Jalil Eshaghi Sani*; Amir Hossein Toorani; Habib Abbasipour; Behnam Amiri

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P3-13: Temperature dependence of the functional response of the common green lacewing, *Chrysoperla carnea* on the black citrus aphid, *Toxoptera aurantii* and the green citrus aphid, Aphis spiraecola

Amir Hossein Toorani*; Jalil Eshaghi Sani; Habib Abbasipour; Behnam Amiri; Saeid Heydari

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amirhoseyn.toorani@gmail.com

P3-14: Effect of diet containing soybean meal on life table parameters of the flour moth, *Ephestia kuehnielle* Zeller (Lep: Pyralidae)

Afsaneh Davoudi; Hamid Reza Sarraf Moayeri*; Aurang Kavousi

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Hamidsarrafm@gmail.Com

P3-15: Host quality and temperatures affecting life table parameters of cowpea beetle, *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae)

Zahra Abedi*; Ali Golizadeh

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P3-16: Formic acid effect on *Ephestia kuehniella* (Lep: Pyralidae) oviposition
Seyed Ali Modarres Hasani*; Ahmad Ashouri

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P3-17: Life table of Chilo suppressalis (Lep.: Crambidae) reared on rice seedlings: effects of individual and group rearing
Jafar Mohaghegh Neyshabouri*; Fatemeh Asghari

***Iranian Research Institute of Plant Protection (IRIPP), Agricultural research, Education and Extension Organization (AREEO), Tehran, Iran,
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P3-18: Life history of rice leaf aphid, *Rhopalosiphum padi* L. (Hemiptera: Aphididae) on wheat under laboratory conditions
Shahram Shahrokhi*; Masood Amir-Maafi

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P3-19: Sequential sampling plan of greenbug, *Schizaphis graminum* (Hemiptera: Aphididae) in wheat fields
Shahram Shahrokhi*; Masood Amir-Maafi

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P3-20: Species diversity and relative abundance of insects in by intercropping *Chrysanthemum morifolium* components with Trigonella foenum graecum
Solmaz Azimi*; Lamia Vjodi

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P3-21: Study on the effect of predator density on demographic parameters of *Stethorus gilvifrons*

Maryam Jafari*; Shila Goldasteh; Ebrahim Soleyman Nejadian; Hossein Ranjbar Aghdam; Abbas Ali Zamani

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P3-22: Demographic outcomes of treating all life stages of *Tetranychus urticae* Koch (Acari: Tetranychidae) by the pesticidal soap, Palizin®

Sara Asadi*; Aurang Kavousi

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P3-23: Spatial distribution and population fluctuation of *Tetranychus urticae* and its predator *Phytoseiulus persimilis* in a rose greenhouse

Kamaloddin Ahmadi*; Yaghoub Fathipour; Mohammad Bashiri

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P3-24: Population fluctuations of melon fly, *Dacus ciliates* Loew (Dip.: Tephritidae) using Dome traps

Kazem Mohammadpoor*; Arman Avand Faghih; Mehrdad Parchami Araghi

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mohammadpour_k@yahoo.com

P3-25: Global Geographical Distribution modeling of *Apis florea* F. (Hymenoptera; Apidae)

Shabnam Parichehreh*; Alimorad Sarafrazi; Samaneh SolhjouyFard; Gholamhossein Tahmasbi

***Department of honeybee, Animal Science Research Institute of Iran, Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran, parechehre@yahoo.com

P3-26: Comparison of linear Regression Methods and Artificial Neural Network Modeling of Population Dynamics Sunn Pest, *Eurygaster integriceps* Put. in Chadegan

Zahra Dustiy; Naser Moeini Naghadeh; Abbas Ali Zamani; Leila Naderloo

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zahradustiy@gmail.com

P3-27: Effect of different plant species on demography factors of tomato leaf miner, *Tuta absoluta* (Lep: Gelechiidae) in laboratory condition

Ebrahim Tamoli Torfi; Ali Asghar Seraj; Ali Rajabpoor; Mehdi Toosi*

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P3-28: Population fluctuation of codling moth, *Cydia pomonella* and plum fruit moth, *Cydia funebrana* (Lepidoptera: Tortricidae) in Urmia region

Roya Taghizadeh

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P3-29: Seasonal fluctuations of the peach twig borer, *Anarsia lineatella* Zeller in Ben county, Chaharmahal and Bakhtiari Province, Iran

Anis Aboutalebian Sourshjani*; Amir Hossein Toorani; Habib Abbasipour; Nastaran Hassanzadeh

*Department of Plant Protection, Faculty of Agricultural Sciences, Yasouj Universiey, Kohgiluyeh and Boyer-Ahmad, Iran,
abotalebian@yahoo.com

P3-30: Study on aphids, leafhoppers and thrips population in twelve tomato varieties in the field

Hoda Salehipour*; Hassan Ali Vahedi; Naser Moeini Naghadeh; Abbas Ali Zamani

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P3-31: Impact of cultural management on the Dubas bug *Ommatissus lybicus* population dynamism

Masoud Latifian*; Yadollah Khajehzadeh; Reza Damghani; Roya Arbabtafti; Mehran Ghazavi

*****Horticulture Research Institute, Date palm and Tropical fruit research center, Agricultural Research, Education and Extension Organization (AREEO)

P3-32: *Ectomyelois ceratoniae* (Lep.: Pyralidae) population fluctuations and detection of prevalent parasitoids in Pomegranate orchards in Golestan province

Samaneh Malek Shahkouyi*; Jamasb Nozari; Vahid Hosseininaveh; Seyed Hossein Goldansaz; Ebrahim Ebrahimi; Mostafa Ghafouri Moghaddam

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P3-33: Effects of the presence of predatory ladybird, *Hippodamia variegate*, feeding on *Aphis gossypii* on reproductive activity and olfactory response of *Lysiphlebus fabarum*

Mehdi Toosi*; Arash Rasekh; Naoya Osawa

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P3-34: Olfactory Responses and Searching Behavior of *Habrobracon hebetor* (Say) (Hymenoptera: Braconidae) to volatile signals derived from carob moth larvae, *Ectomyelois ceratoniae* and Its Host Plant

Fatemeh Shafaghi; Seyed Hossein Goldansaz; Arman Avand Faghih

*****Department of Plant Protection, Faculty of agriculture, university of Tehran, Karaj, Iran.

P3-35: Oviposition preference of *Diaphania indica* (Lepidoptera: Pyralidae) in response to volatiles of intact and infested cucurbitaceous host plants

Amin Moghbeli Gharaei; Mahdi Ziaaddini; Mohammad Amin Jalali

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P3-36: Influence of pheromone trap height and placement on catch of male plum fruit moth, *Grapholita funebrana* Treitschke in Moghan region

Seyed Mehdi Hashemi*; Alireza Bandani; Ardavan Mardani

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P3-37: Cornicle secretion by *Aphis fabae* affects the foraging behavior its parasitoid, *Lysiphlebus fabarum*

Younes Parvizi Fath Abadi; Arash Rasekh*; JP. Michaud

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P3-38: Survey of attraction value of the mirid predator, *Nesidiocoris tenuis* (Reuter) toward healthy and damaged tomato plants

Mousa Abdollahipour*; Yaghoub Fathipour; Afsaneh Mollahosseini

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P3-39: Population density survey of tomato lepidopteran pests by pheromone traps

Hoda Salehipour*; Hassanali Vahedi; Naser Moeini Naghadeh; Abbas Ali Zamani

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P3-40: Efficiency of the coconut botanical soap insecticide on the pistachio psylla, *Agonoscena pistaciae* in field conditions

Kazem Mohammadpoor*; Mohammad Sirjani; Hossein Farazmand

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P3-41: Spatial distribution of *Agonoscena pistaciae* (Hemiptera: Aphalaridae) in Rafsanjan region

Abolghasem Tavakoli Zadeh; Mohammad Reza Hassani*; Zahra Sheibani

*Department of Entomology, Rafsanjan Branch, Islamic Azad University, Rafsanjan, Iran,
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P3-42: Natural enemies of the common pistachio psylla, Agonoscena pistaciae in Aran Bidgol pistachio orchards of Kashan

Gholamhossein Rosheni*; Habib Abbasipour

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P3-43: Effectivenes of *Achillea millefolium* and *Carum copticum* extracts on *Agonoscena pistaciae* under laboratory condition

Hassan Zeinoddini; Zahra Sheibani*; Mohammad Reza Hassani

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zsheibani2001@yahoo.com

P3-44: Cellular energy allocation of insecticide resistance and susceptible in the common pistachio psyllid, *Agonoscena pistaciae* (Hem: Psyllidae)

Ali Alizadeh*; Khalil Talebi Jahromi; Vahid Hosseininaveh; Mohammad Ghadamyari

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P3-45: Parasitoids wasps of white peach scale, *Pseudaulacaspis pentagona* in Kiwi orchards of east of Mazandaran

Amirhossein Toorani*; Habib Abbasipour; Jaber Karimi; Alireza Askarianzadeh

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P3-46: Effects of intraguild predation on fitness components of coccinellid beetle *Hippodamia variegata*
Mehdi Toosi*; Arash Rasekh; Naoya Osawa

*****Department of Plant Protection, College of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran,
toosi2012@gmail.com

P3-47: Study of Biology and prey stage preference of the coccinellid, *Hyperaspis polita* with feeding on the spherical mealybug, *Nipaecoccus viridis*
Mehdi Esfandiari; Zohreh Farhadi; Mohammad Saeed Mossadegh; Parviz Shishehbor

*****Department of Plant Protection, College of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran,
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P3-48: Host stage preference and functional response of *Aphidius matricariae* (Hymenoptera: Braconidae) on tobacco aphid, *Myzus nicotianae* (Hemiptera: Aphididae)
Mehran Rezaei*; Ali Asghar Talebi; Yaghoub Fathipour; Javad Karimzadeh

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P3-49: The impact of host storage at low temperature on laboratory performance of *Trichogramma brassicae*
Nahid Vaez*; Davoud Mohammadi

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P3-50: Effect of cold storage durations on the some biological parameters of *Trichogramma brassicae* (Hymenoptera: Trichogrammatidae)

Nahid Vaez*; Zahra Pourgoli; Davoud Mohammadi

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naheedvaez@gmail.com

P3-51: Effect of Overwintering on Fecundity and Sex ratio of *Trichogramma brassicae* (Hymenoptera: Trichogrammatidae)

Somayeh Rahimi-Kaldeh*; Ahmad Ashouri; Alireza Bandani

***Department of Plant Protection, College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran,
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P3-52: Preliminary study on natural enemies of *Hishimonus phycitis* (Distant, 1908) (Hemi., Cicadellidae), the vector of lime witches' broom phytoplasma in Hormozgan province

Abdoolnabi Bagheri; Chamran Hemmati*; Majeed Askari Seyahooei; Seyed Saeid Modarres Najafabadi; Mehrnoosh Nikooei

***Department of Agricultural Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran,
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P3-53: The effect of different flowering plants on the fitness of *Trichogramma brassicae* (Hymenoptera: Trichogrammatidae)

Somayeh Rahimi-Kaldeh*; Sajedeh Sarlak; Ahmad Ashouri

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P3-54: Effect of short time storage on biological parameters of *Habrobracon hebetor* (Say) adults

Pari Dastmalchi*; Nahid Vaez; Ali Mehrvar

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P3-55: Effect of temperature and diet on biology of mealybug destroyer *Cryptolaemus montrouzieri* Mulsant feeding on vine mealybug *Planococcus ficus* (Signoret) under laboratory conditions

Tayebeh Akbari; Hassanali Vahedi*; Mohammad Heidari; Mohammad Amin Samih

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P3-56: Biological characteristics of predatory bug *Macrolophus pygmaeus* rumbur (Hemiptera: Miridae) when feeding on egg *Tuta absoluta* and Ephestia kuehniella under laboratory conditions

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*Department of Plant Protection, College of Agriculture, University of Maragheh, Maragheh, Iran,
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P3-57: Functional Response of *Orius niger* on healthy and *Beauveria bassiana*-treated Adults of two-spotted spider mite on tomato

Ali Asghar Kosari*; Ahad Sahragard; Reza Talaei-Hassanloui

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P3-58: Influence of different diets on some biological characteristics of *Macrolophus pygmaeus* Rumbur (Hemiptera: Miridae) under laboratory condition

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***Department of Plant protection, Faculty of agriculture, University of Maragheh, Maragheh, Iran,
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P3-59: Influence of host plant substrate on life table parameters of *Macrolophus pygmaeus* Rambur (Hemiptera: Miridae) feeding on *Ephestia kuehniella*

Gholamhossein Gharekhani; Zahra Naseri; Mahin Ghasemzadeh*

***Department of Plant protection, Faculty of Agriculture, University of Maragheh, Maragheh, Iran
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P3-60: Virulence of an indigenous strain of *Trichoderma harzianum* Rifai (Ascomycota: Hypocreales) to the grasshopper, *Chrotogonus trachypterus* (Orth.: Pyrgomorphidae) Blanchard in laboratory conditions

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P3-61: Field evaluation of three species of *Trichogramma* against the striped rice stem borer

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P3-62: Prey preference of *Nesidiocoris tenuis* on *Ephestia kuehniella* and Tuta absoluta eggs under laboratory conditions

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P3-63: Effects of feeding with frozen host on the life table parameters of *Hippodamia variegata* (Goeze) (Col: Coccinellidae)

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P3-64: Cold storage of eggs in the predatory bugs *Andrallus spinidens* (F.) and *Arma custos* (F.) (Hem.: Pentatomidae)

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P3-65: Photoperiod Effect on Fecundity, Longevity and Sex ratio of *Trichogramma brassicae* (Hym: Trichogrammatidae)

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P3-66: Generation-dependent life table parameters of the parasitoid wasp *Habrobracon hebetor* (Hymenoptera: Braconidae)

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P3-67: Improving biological control of *Lycoreilla auripila* (Diptera: Sciaridae) through combined use of *Metarhizium anisopliae* and *Geaolealaps aculeifer*

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P3-68: Functional response of the predator *Hippodamia variegata* (Goeze) (Coleoptera: Coccinellidae) feeding on *Macrosiphum rosae* (L.) (Hemiptera: Aphididae)

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