

# Mohammad Mehrabadi

Associate Professor & Head

Department of Entomology, Faculty of Agriculture

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🌐 (Lab) <https://www.researchgate.net/lab/Mohammad-Mehrabadi-Lab>

## Research interests

Insect-microbe-pathogen interactions  
Novel pest management methods  
Vector biology and management  
Genetic control of insect/vector pests  
Area-wide integrated pest management

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## QUALIFICATIONS

**PhD visiting student**, Molecular Biology (host-pathogen interactions), The University of Queensland, Australia. 2012-13

**PhD** in Agricultural Entomology (Insect Physiology and Toxicology), University of Tehran, Iran. 2009-13.

**MSc** in Agricultural Entomology, University of Tehran, Iran, 2007-09

**BSc** in Plant Protection, University of Gorgan, Iran, 2003-07.

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## EMPLOYMENT

**Assistance Professor**, Department of Entomology, Tarbiat Modares University, Tehran, Iran. 2013-2019.

**Associate Professor**, Department of Entomology, Tarbiat Modares University, Tehran, Iran. 2019-on going.

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## **EDITORIAL ROLES**

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### **Associate Editor:**

Physiological Entomology, Wiley  
Frontiers in Physiology- Invertebrate Physiology

### **Editorial Board:**

Journal of Applied Entomology, Wiley  
Journal of Insect Biodiversity and Systematics

### **Topic Editor:**

Understanding How the Physiology of Insect Vectors Influences Vector-Borne Disease Transmission, in Frontiers in Physiology- Invertebrate Physiology

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## **WORKSHOPS**

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Gene transfer to bacteria and mammalian cells, Stem Cell Technology Company, Iran, November 27, 2008.

Biotechnology of insect microbial pathogens, Agriculture, Biotechnology Research Institute of Iran (ABRII), November 9-12, 2009.

Recombinant antibodies and their application in agriculture, Agriculture Biotechnology Research Institute of Iran (ABRII), December 23-25, 2010.

CLC Genomics for biologists, Institute for Molecular Biosciences, The University of Queensland, Queensland, Brisbane, Australia. April 15, 2012.

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## **TEACHING EXPERIENCE**

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Insect Biotechnology (MSc), Tarbiat Modares University

Insect Pathology (MSc and PhD), Tarbiat Modares University

Insect Molecular Genetics (PhD), Tarbiat Modares University, Bu-Ali Sina University

Vectors of Plant Pathogens (PhD), Tarbiat Modares University

Advanced Insect Physiology (PhD), Shahid Chamran University

Molecular Diagnostic Methods (PhD), Tarbiat Modares University

Complementary Toxicology (MSc), Tarbiat Modares University

Molecular Insect-Plant Interactions (PhD), Tarbiat Modares University

Teaching assistance, Insect Physiology (laboratory skills), University of Tehran. 2008-2011.

Teaching assistance, Insect Biochemistry (laboratory skills), University of Tehran. 2008-2011.

Teaching assistance, Insect Toxicology (laboratory skills), University of Gorgan. 2008.

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## **HONORS & AWARDS**

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Rank first student among the BSc students of Plant Protection, University of Gorgan, 2004-2007.

The excellent student in MSc degree, University of Gorgan, 2007-2008.

Distinguished researcher student (MSc) of the Faculty of Agricultural and Natural Resources, University of Tehran, 2008.

Member of Iran's Young Elite National Foundation since 2008.

Rank first student among the MSc students of Entomology, University of Tehran, 2009.

Distinguished researcher student (MSc), University of Tehran, 2009.

Rank first in the PhD entrance exam, University of Tehran, 2009.

Rank first PhD student in the comprehensive exam, University of Tehran, 2010.

Rank first MSc thesis, University of Tehran, 2010.

Distinguished researcher student (PhD), University of Tehran, 2012.

Distinguished researcher student (PhD) of the Faculty of Agricultural and Natural Resources, University of Tehran, 2012

Dr. Kazemi Ashtiani Fund (INEF) for early carrier Assistant Professors

Distinguished MSc thesis supervision (1<sup>st</sup> Rank), Selected by the Entomological Society of IRAN, 2<sup>nd</sup> IICE, 2017

Distinguished MSc theses supervision (1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> Ranks), Selected by the Entomological Society of IRAN, 3<sup>rd</sup> IICE, 2019.

Laureate of the 21st Khwarizmi Young Award (KYA) at the 21st session, in the category of Fundamental Research. 2019.

Distinguished Young Professor, Tarbiat Modares University, 2020

Keynote speaker at 24<sup>th</sup> Iranian Plant Protection Congress, Tehran, Iran. 2022.

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## **MEMBERSHIP**

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Entomological Society of Iran

Acarological Society of Iran

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## Grants & projects

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Targeting insect pests using novel approaches based on physiology and development. TMU Early Career Academic Grant (2013-2014)

Role of miRNAs in antiviral immunity of lepidopteran insects. Dr. Kazemi Ashtiani Research Grant Award for Young Assistant Professors, INEF (2013-14)

Microbial control of some lepidopteran insect pests of horticultural crops: Isolation and identification of native strains. MSRT Project Grant (2013-15)

Functional analysis of RNAi pathway in *Helicoverpa armigera* and designing an RNAi-based strategy for management of this insect pest. INSF Project Grant (2016-19)

Role of epigenetics in *Spodoptera frugiperda* (Sf9) cells – AcMNPV interaction. INSF Research Dissertation Grant (2017-2019)

Molecular interaction underlying baculovirus-host insect interactions. CISSC-ICARD Project Grant (2018-19), in collaboration with Prof. Sassan Asgari, the University of Queensland, Australia.

*Wolbachia* bacteria in the parasitoid wasps, *Habrobracon hebetor*: Detection, functional characterization and its application in improving mass rearing process of this parasitoid wasp. INSF Project Grant (2020-2021)

Microbial control of some lepidopteran insect pests: mass production of entomopathogenic bacteria and nematodes. MSRT Project Grant

Identifying and transferring endosymbionts in parasitoids of pests to improve biological control, CISSC-ICARD Project Grant (2022-2024), in collaboration with Prof. Ary Hoffmann, The University of Melbourne, Australia.

Host-microbe interactions: from molecular mechanisms to novel microbial based strategies for pest management, INSF Research Grant (2022-2025), in collaboration with Prof. Sassan Asgari (The University of Queensland, Australia) and Prof. Ary Hoffmann (The University of Melbourne, Australia).

## **Thesis supervision & co-supervision**

Karamipour, N (MSc. 2013-15), Bacterial endosymbionts in the striped shield bug, *Graphosoma lineatum*: detection, and identification and their interactions with the host.

Bidari F (MSc. 2014-16) Isolation and identification of *Bacillus thuringiensis* and *Serratia* sp from infected insects and their insecticidal effects on some lepidopteran pests

Khanamani, M (PhD. 2014-17, Co-supervisor)

Riahi, E (PhD. 2014-17, Co-supervisor)

Baradaran M (MSc. 2015-2017) Expression analysis of some epigenetic-related genes in cotton bollworm *Helicoverpa armigera* (Lep.: Noctuidae) and their suppression by RNAi

Bagheri Z (MSc. 2015-2017) The endosymbiotic *Wolbachia* bacteria in the parasitoid wasp, *Habrobracon hebetor* (Hym.: Braconidae): Detection, identification and its effects on the host

Hemmati, SA (PhD. 2014-18, Co-supervisor) Rational design of trypsin inhibitors for control of *Plodia interpunctella*

Kashkouli, M (PhD. 2014-2018, Co-supervisor) bacterial symbionts in heteroptera associated with pistachio

Hemmati, Ch (PhD. 2014-2018, Co-supervisor) Microbial symbionts in *Hishimonus phycitis* and their interactions with the host

Ayoubi, A (PhD. 2015-2018, Co-supervisor) Bacterial symbionts in three aphid species and their importance in the aphids host

Fami-Tafreshi, T (Msc. 2015-2017, Co-supervisor) Metagenomics of the olive psyllid, *Euphyllura olivina*

Hosseinzadeh, S (PhD. 2015-2018, Co-supervisor) Role of microRNAs and bacterial symbionts in *Candidatus Liberibacter asiaticus* – insect vector interactions

Rahimpour, M (MSc, 2017-2019) Role of miRNA pathway in *Helicoverpa armigera* and its application in control of this insect pest

Sarvari, M (MSc, 2017-2019) Role of DNA methylation in regulation of gut microbes in the waxworm *Galleria mellonella*

Karamipour, N (PhD, 2016-2020) Identification of some native strains of SeMNPV and investigating the role of epigenetics in interaction of SeMNPV and AcMNPV with the beet army worm, *Spodoptera exigua*

Vahabi, M. (PhD, 2016-2020, Co-supervisor); Gholami, R. (PhD, Ongoing, 2017-2021, Co-supervisor); Attarianfar, M. (PhD. Ongoing, Co-supervisor); Jamal, M. (PhD. Ongoing, Co-supervisor); Pirmorady, N. (PhD. Ongoing, Co-supervisor); Dehghani, S. (PhD. Ongoing, Co-supervisor); Hassanzadeh, M. (MSc, Ongoing); Golboni, H (MSc, Ongoing); Saffari, S. (MSc, Ongoing); Doostalizadeh, A (MSc, Ongoing); Amini, S. (MSc, Ongoing).

## **PUBLICATIONS**

### **2022 (published & in the publication process)**

Ayoubi, A., Talebi, A.A., Fathipour, Y. & **Mehrabadi, M.** *Hamiltonella defensa* imposes parasitoid resistance in the green peach aphid, *Myzus persicae*, *Manuscript submitted*

Ghavamabad, R. G., Talebi, A. A., **Mehrabadi, M.**, Farashiani, M. E., & Pedram, M. Efficacy of entomopathogenic nematodes against *Cydalima perspectalis* and *Hyphantria cunea*, two new invasive pests in Iran, *Manuscript submitted*

Attarianfar, M., Mikani, A. & **Mehrabadi, M.** Fenoxycarb exposure modulates antiviral immunity and affects HaNPV infection in the cotton bollworm, *Helicoverpa armigera*, *Pest Management Science*, *under revision*.

Karamipour, N., Talebi, AA., Fathipour, Y., Asgari, S. & **Mehrabadi, M.** DNA methyltransferases modulate antiviral immunity and affect *Autographa californica* multiple nucleopolyhedrovirus infection in *Spodoptera frugiperda* (Sf9) cells. *Insect Biochemistry and Molecular Biology*, *under revision*.

Attarianfar, M., Mikani, A. & **Mehrabadi, M.** Fenoxycarb, the juvenile hormone analog, modulates gut immunity and gut bacteria titer in the cotton bollworm, *Helicoverpa armigera*, *Pesticide Biochemistry and Physiology*, *under revision*.

Tafreshi, T., Askarianzadeh, A., Saeidi, A., Karamipour, N., & **Mehrabadi, M.** (2022) Comparative metagenomic analysis of bacterial symbionts in the olive psyllids, *Euphyllura straminea* and *E. pakistanica*, *Journal of Applied Entomology* (In press). <https://doi.org/10.1111/jen.13056>.

Bidari, F., Fathipour, Y., Asgari, S., **Mehrabadi, M.** (2022) Targeting the microRNA pathway core genes, Dicer1 and Argonaute1 , negatively affects the survival and fecundity of *Bemisia tabaci*. *Pest Management Science* (In Press). <https://doi.org/10.1002/ps.7041>.

Rezaei, M., Talebi, A.A., Fathipour, Y., Karimzadeh, J., **Mehrabadi, M.**, Reddy, G.V.P. (2022) Optimization of mass rearing of *Aphidius matricariae* on tritrophic plant-aphid-parasitoid systems. *BioControl* (In Press). <https://doi.org/10.1007/s10526-022-10146-6>.

Alizadeh, M., Safaie, N., Shamsbakhsh, M., **Mehrabadi M.** (2022) *Neoscytalidium novaehollandiae* causes dieback on *Pinus eldarica* and its potential for infection of urban forest trees, *Scientific Reports*, **12**(1), 1-15.

Nasehi, S.F., Fathipour, Y., Asgari, S. & **Mehrabadi, M.** (2022) Environmental temperature, but not male age, affects *Wolbachia* and prophage WO thereby modulating cytoplasmic incompatibility in the parasitoid wasp, *Habrobracon hebetor*, *Microbial Ecology* **83**, 482–491.

Bagheri, Z., Talebi, A.A., Asgari, S. & **Mehrabadi, M.** (2022) *Wolbachia* promote successful sex with siblings in the parasitoid, *Habrobracon hebetor*, *Pest Management Science*, **78** (1), 362-368.

## 2021

Ghavamabad, R. G., Talebi, A. A., **Mehrabadi, M.**, Farashiani, M. E., & Pedram, M. (2021). First report of *Steinernema borjomiense* Gorgadze et al., 2018 (Rhabditida: Steinernematidae) from Iran and its efficacy against two exotic invasive forest pests in laboratory condition. *Russian Journal of Nematology*, **29**(2):127-141.

Kashkouli, M., **Mehrabadi, M.**, & Fathipour, Y. (2021). The Symbionts. In *Microbial Approaches for Insect Pest Management* (pp. 217-269). Springer, Singapore.

Khadem Safdarkhani, H., Hajiqanbar, H., & **Mehrabadi, M.** (2021) Description of all active life stages of the *Pimeliaphilus lindquisti* sp. nov. (Acari: Prostigmata: Pterygosomatidae) with review of host specificity and world distribution of the genus. *Systematic and Applied Acarology*. **26** (11), 2002-2017

Abbod, M., Safaie, M., Gholivand, Kh., **Mehrabadi, M.** Bonsaii M. & Ebrahimi Valmoozi, A.A. (2021) A study of fungicidal and anti-phenol oxidase activity of some  $\alpha$ -amino phosphonate derivatives. *Chemical and Biological Technologies in Agriculture*. **8**: 48.

Nasehi, S.F., Fathipour, Y., & **Mehrabadi, M.** (2021) *Wolbachia* and cytoplasmic incompatibility in parasitoid wasp *Habrobracon hebetor* (Hymenoptera: Braconidae). *Plant Pest Research*, **11**(2): 53-66.

Attarianfar, M., Mikani, A., & **Mehrabadi, M.** (2021) The role of histone acetylase in *Autographa californica* multicapsid nucleopolyhedrovirus (AcMNPV) replication and immune response in *Spodoptera frugiperda* (Sf9) cells. *Plant Pest Research*, **11**(2): 39-51.

**Mehrabadi, M.**, Darsouei, R. and Karimi, J. (2021) Insect pathogenic viruses, microsporidians and Endosymbionts. In: Karimi J., Madadi H. (eds) *Biological Control of Insect and Mite Pests in Iran*. Progress in Biological Control, vol 18. Springer, Cham. [https://doi.org/10.1007/978-3-030-63990-7\\_13](https://doi.org/10.1007/978-3-030-63990-7_13).

Ghavamabad, R. G., Talebi, A. A., **Mehrabadi, M.**, Farashiani, M. E., & Pedram, M. (2021). First record of *Oscheius myriophilus* (Rhabditida: Rhabditidae) from Iran; and its efficacy against two economic forest trees pests, *Cydalima perspectalis* (Walker, 1859) (Lepidoptera: Crambidae) and *Hyphantria cunea* (Lepidoptera: Erebidae) in laboratory condition. *Journal of Nematology*, **53**, 1-16.

Rezaei, M., Talebi, A. A., Fathipour, Y., Karimzadeh, J., **Mehrabadi, M.** (2021) Age-dependent functional response of *Aphidius matricariae* (Hymenoptera: Braconidae) on tobacco aphid, *Myzus persicae nicotianae* (Hemiptera: Aphidian). *Journal of Asia-Pacific Entomology*. **24** (1), 470-476.

Karamipour, N., Fathipour, Y. & **Mehrabadi, M.** (2021) Obligatory gut bacterial symbionts affects life table parameters of the stink bug, *Graphosoma lineatum*, *Ecology and Evolution*, **11** (6), 2515-2523.

Vahabi Mashhor, M., Moharramipour, S., Mikani, A., & **Mehrabadi, M.** (2021) Erucin modulates digestive enzyme activity via crustacean cardioactive peptide in the elm leaf beetle *Xanthogaleruca luteola* (Coleoptera: Chrysomelidae). *Journal of Insect Physiology*, **130**, 104196.

Kashkouli, M., Castelli, M., Floriano, A.M., Bandi, C., Epis, S., Fathipour, Y., **Mehrabadi, M.**, Sassera, D. (2021) Characterization of a novel Pantoea symbiont allows inference of convergent genome reduction patterns in symbionts of Pentatomidae. *Environmental Microbiology*, **23** (1), 36-50.

Kashkouli, M., Fathipour, Y. & **Mehrabadi, M.** (2021) The crucial role of the endosymbiont Pantoea sp. in morphology and mating of the pistachio green stink bug, *Brachynema germari* (Hemiptera: pentatomidae). *Journal of Agricultural Science and Technology* **23**(1): 137-148.

Vahabi Mashhor, M., Moharramipour, S., Mikani, A. & **Mehrabadi, M.** (2021) Antifeedant activity of nanoemulsion formulation of arugula *Eruca sativa* oil on elm leaf beetle *Xanthogaleruca luteola* (Coleoptera: Chrysomelidae), *Journal of Agricultural Science and Technology*, **23**(1): 125-136.

Hemmati SA., Takallooc Z., Taghdir, M., **Mehrabadi, M.**, Balalaeie S., Moharramipour S. & Sajedi HR. (2021) The trypsin inhibitor pro-peptide induces toxic effects in Indian meal moth, *Plodia interpunctella*. *Pesticide Biochemistry & Physiology*, **171**:104730.

## 2020

Rezaei, M., Talebi, A.A., Fathipour, Y., Karimzadeh, J., **Mehrabadi, M.**, & Reddy, G.V. (2020) Effects of cold storage on life-history traits of *Aphidius matricariae*. *Entomologia Experimentalis et Applicata*. **168** (11), 800-807.

Sarvari, M., Mikani, A., & **Mehrabadi, M.** (2020) The IMD pathway regulates gut bacteria population in the model insect *Galleria mellonella*. *Developmental and Comparative Immunology*, **110**: 103732.

Hemmati, S. A., & **Mehrabadi, M.** (2020). Structural ensemble-based computational analysis of trypsin enzyme genes discovered highly conserved peptide motifs in insects. *Archives of Phytopathology and Plant Protection*, **53** (7-8), 335-354.

Rezaei M., Talebi A.A., Fathipour, Y., Karimzadeh, J. **Mehrabadi, M.** & Dindo, M.L. (2020) Effects of constant low-temperature storage on the performance of a commercial strain of *Aphidius colemani*, *Bulletin of Insectology*, **73** (1), 125-135

Abbod, M., Safaie, M., Gholivand, Kh., **Mehrabadi, M.** & Bonsaii, M. (2020). Mode of action of 3-butylidene phthalide as a competent natural pesticide. *Pesticide Biochemistry and Physiology*, **164**, 228-236.

Alipour, M., Talebi, A.A., Fathipour, Y. & **Mehrabadi, M.** (2020) Life table parameters of *Cephalonomia tarsalis* (Hym.: Bethyridae), a parasitoid of *Oryzaephilus surinamensis* (Col.: Silvanidae), *Plant Protection*, **42** (4), 39-46 (in Persian).

Fathipour, Y., Kianpour, R., Bagheri, A., Karimzadeh, J., Hosseini Naveh, V., & **Mehrabadi, M.** (2020) Targeting *Plutella xylostella* digestive enzymes by applying resistant Brassicaceae host cultivars. *Journal of Crop Protection*, **9**(1), 65-79.

Kashkouli, M., Fathipour, Y. & **Mehrabadi, M.** (2020) Habitat visualization, acquisition features and necessity of the Gammaproteobacterial symbiont of pistachio stink bug, *Acrosternum heegeri* (Hem.: Pentatomidae). *Bulletin of Entomological Research*, **110**(1):22-33.



Ayoubi, A., Talebi, A.A., Fathipour, Y. & **Mehrabadi, M.** (2020) Coinfection of the secondary symbionts, *Hamiltonella defensa* and *Arsenophonus* sp. contribute to performance of the major aphid pest, *Aphis gossypii*, *Insect Science*, **27**, 86-98.

## 2019

Rezaei, M., Talebi A.A., Fathipour, Y., Karimzadeh, J. & **Mehrabadi, M.** (2019) Foraging behavior of *Aphidius matricariae* (Hymenoptera: Braconidae) on tobacco aphid, *Myzus persicae nicotianae* (Hemiptera: Aphididae), *Bulletin of Entomological Research*, **109**(6): 840-848.

Kashkouli, M., Fathipour, Y. & **Mehrabadi, M.** (2019) Heritable gammaproteobacterial symbiont improves the fitness of the pistachio stink bug, *Brachynema germari* Kolenati (Hem.: Pentatomidae). *Environmental Entomology*, **48**, 1079-1087.

Baradaran, E., Moharramipour, S., Asgari, S. & **Mehrabadi, M.** (2019) Induction of DNA methyltransferases in *Helicoverpa armigera* following injection of pathogenic bacteria modulates expression of antimicrobial peptides and affect bacterial proliferation. *Journal of Insect Physiology*, **118**, 103939.

Karamipour, N., Fathipour, Y., Talebi, A.A., Asgari, S. & **Mehrabadi, M.** (2019) The microRNA pathway is involved in *Spodoptera frugiperda* (Sf9) cells antiviral immune defense against Autographa californica multiple nucleopolyhedrovirus infection. *Insect Biochemistry and Molecular Biology*, **112**, 103202.

Hosseinzadeh, S., Shams-bakhsh, M., Mann, M., Fattah-Hosseini, S., Bagheri, A., **Mehrabadi, M.**, Heck, M. (2019) Distribution and variation of bacterial endosymbiont and 'Candidatus Liberibacter asiaticus' titer in the Huanglongbing insect vector, *Diaphorina citri* Kuwayama. *Microbial Ecology*, **78** (1), 206-222.

Rahimpour, H., Moharramipour, S., Asgari, S. & **Mehrabadi, M.** (2019) The microRNA pathway core genes are differentially expressed during the development of *Helicoverpa armigera* and contribute in the insect's development. *Insect Biochemistry and Molecular Biology*, **110**, 121-127.

Bagheri, Z., Talebi, A.A., Asgari, S. & **Mehrabadi, M.** (2019) *Wolbachia* induce cytoplasmic incompatibility and affect mate preference in *Habrobracon hebetor* to increase the chance of its transmission to the next generation. *Journal of Invertebrate Pathology*, **163**, 1-7.

Baradaran, E., Moharramipour, S., Asgari, S. & **Mehrabadi, M.** (2019) Upregulation of *Helicoverpa armigera* core RNAi genes by bacterial infections and its effects on the insect-bacteria interaction. *Insect Molecular Biology*, **28** (2), 290-299.

Kashkouli, M., Fathipour, Y. & **Mehrabadi, M.** (2019) Potential Management Tactics for Pistachio Stink Bugs, *Brachynema germari*, *Acrosternum heegeri* and *A. arabicum* (Hemiptera: Pentatomidae): High Temperature and Chemical Surface Sterilants Leading to Symbiont Suppression, *Journal of Economic Entomology*, **112** (1), 244-254.

## 2018

Riahi, E., Fathipour, Y., Talebi, A. A., & **Mehrabadi, M.** (2018) Interactions among food diets and rearing substrates affect development and population growth rate of *Typhlodromus bagdasarjani*, *Systematic and Applied Acarology* **23**(9), 1845-1856.

Hemmati, Ch., Moharramipour, S., Askari-Seyahooei, M., Bagheri, A. & **Mehrabadi, M.** (2018) Population genetic structure of *Hishimonus phycitis* (Hem.: Cicadellidae), vector of lime witches' broom phytoplasma, *Journal of Agricultural Science and Technology*, **20** (5), 999-1012.

Riahi, E., Fathipour, Y., Talebi, A. A., & **Mehrabadi, M.** (2018) Factitious prey and artificial diets: do they all have the potential to facilitate rearing of *Typhlodromus bagdasarjani* (Acari: Phytoseiidae)? *International Journal of Acarology*, **44**, 121-128.

Karamipour, N., Fathipour, Y., Talebi, AA. Asgari, S., & **Mehrabadi, M.** (2018) Small interfering RNA pathway contributes in antiviral immunity of *Spodoptera frugiperda* (Sf9) cells following *Autographa californica* multiple nucleopolyhedrovirus infection. *Insect Biochemistry and Molecular Biology*, **101**, 24-31.

Abbasi-Moqadam, F., Hajiqanbar, H., & **Mehrabadi, M.** (2018) Contribution to the knowledge of the genus *Petalomium* (Acari: Neopygmephoridae) associated with ants from Iran. *Systematic and Applied Acarology*, **23** (6), 1180-1189.

Tahmasebi A., Afsharifar, A., Heydari, A. & **Mehrabadi, M.** (2018) Expression analysis of host defense responses against the 8K (KDa) cysteine-rich viral silencing suppressor protein in *Nicotiana benthamiana*. *Plant Omics*, **11** (2), 113-117.

Tahmasebi, A., Afsharifar A., Heydari, A. & **Mehrabadi, M.** (2018) Genetic variations of 8K (KDa) suppressor protein and host defense responses to 8K expression, *Molecular Biology Research Communications*, **7**(1), 43-50.

## 2017

Bidari, F., Shamsbakhsh, M. & **Mehrabadi, M.** (2017) Isolation and characterization of a *Serratia marcescens* with insecticidal activity from *Polyphylla olivieri* (Col.: Scarabaeidae), *Journal of Applied Entomology*, **42**(1-2), 162-172.

Hemmati, Ch., Moharramipour, S., Askari-Seyahooei, M., Bagheri, A. & **Mehrabadi, M.** (2017) Identification of yeast and yeast-like symbionts associated with *Hishimonus phycitis* (Hemiptera: Cicadellidae), the insect vector of lime witches' broom phytoplasma, *Journal of Crop Protection*, **6** (4), 439-446.

Riahi, E., Fathipour, Y., Talebi, A. A., & **Mehrabadi, M.** (2017) Attempt to develop cost-effective rearing of *Amblyseius swirskii* (Acari: Phytoseiidae): assessment of different artificial diets. *Journal of Economic Entomology*, **110**(4), 1525-1532.

Hemmati, S.A., Sajedi, R.H., Moharramipour, S., Taghdir, M., Rahmani, H, Etehad, S.M. & **Mehrabadi, M.** (2017) Biochemical characterization and structural analysis of trypsin from *Plodia interpunctella* midgut: Implication of determinants in extremely alkaline pH activity profile. *Physiological Entomology*, **42**, 307-318

Khanamani, M., Fathipour, Y., Talebi, A.A. & **Mehrabadi, M.** (2017) Quantitative analysis of long-term mass rearing of *Neoseiulus californicus* (Acari: Phytoseiidae) on almond pollen, *Journal of Economic Entomology*, **110**(4):1442-1450.

Riahi, E., Fathipour, Y., Talebi, A. A., & **Mehrabadi, M.** (2017) Natural diets versus factitious preys: comparative effects on development, fecundity and life table of *Amblyseius swirskii* (Acari: Phytoseiidae). *Systematic and Applied Acarology*, **22**(5):711-723.

Khanamani, M., Fathipour, Y., Asghar Talebi, A., & **Mehrabadi, M.** (2017) Evaluation of different artificial diets for rearing the predatory mite *Neoseiulus californicus* (Acari: Phytoseiidae): diet-dependent life table studies, *Acarologia*, **57**(2):407-419.

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