

Curriculum vitae

Maryam Atapour

Personal Information

First Name: Maryam

Last Name: Atapour

Nationality: Iranian

Birth: 31.05.1982

Status: Married

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Current positions

Assistant professor. Department of Plant Production and Protection, Agriculture Research Institute, Iranian Organization Research Science and Technology, Tehran, Iran. PO Box 33535111.

Educational Background

Ph.D. in Agricultural Engineering- Entomology, Insect physiology, 2007 - 2011 (GPA: 18.37, rang 0-20).

Project: Cold Hardiness Physiology of the beet armyworm, *Spodoptera exigua* (Lep: Noctuidae)

Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, PO Box: 14115-336, Tehran, Iran.

M.Sc. in Agricultural Engineering – Entomology, Insect physiology, 2004- 2006 (GPA: 19.04, rang 0-20).

Project: Overwintering Physiology of the Rice Stem Borer, *Chilo suppressalis* (Lep: Pyralidae).

Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, PO Box: 14115-336, Tehran, Iran.

B.Sc. in Agricultural Engineering –Plant protection, 2000 – 2004 (GPA: 17.35, rang 0-20).

Project: The mechanism of pest resistance to *Bacillus thuringiensis*.

Department of Plant protection. Faculty of Agriculture. University of Guilan. Rasht. Iran.

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Projects

- Evaluation of the effects of emulsions of absinthe and thyme essential oils and extracts on aphids. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2018 until now).
- Extraction of cell membranes fatty acids of Lime butterfly, *Papilio demoleus* under low temperature stresses. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2018 until now).
- Fumigant toxicity of *Artemisia absinthium* on two stored-product pests. (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2016-2017).
- Control of Citrus Leafminer, *Phyllocnistis citrella* (Lep: Gracillariidae) as the Major Pest of Citrus nurseries and Young Orchards Using Sterile Insect Technique (SIT). (Role: Main Investigator, Funding Org: Iran National Science Foundation [INSF]. 2014 until now).
- Effect of different formulations on the basis of essential oils to produce a product suitable for storage pest control (Role: Main Investigator, Funding Org: Barij Essence Pharmaceutical. 2014-2016).
- Mass rearing optimization of beneficial insect for biological control. (Role: Main Investigator, Funding Org: Dashte Naz Co. 2014-2016).
- Insecticidal effects of essential oil of *Ajuga chamaecistus* on *Oryzaephilus surinamensis* in laboratory condition. (Role: Main Investigator, Funding Org: Islamic Azad University of Shahre-Gods. 2014-2015).
- Cold hardiness process of large white butterfly, *Pieris brassicae* (Lep: Pyralidae) and its integrated pest management in Iran (Role: Main Investigator, Funding Org: Iranian Organization Research Science and Technology. 2013-2014).
- The use of Iranian diatoms soil protection against stored pests of grain (Role: Assistant, Funding Org: Iran National Science Foundation [INSF]. 2014- 2016).
- Evaluation of using sterile insect technique for controlling of European corn borer, *Ostrinia nubilalis* (Lep: Pyralidae). (Role: Assistant, Funding Org: Iran National Science Foundation [INSF]. 2015 until now).
- Integrated pest management of oilseeds (Role: Assistant, Funding Org: Tarbiat Modares University. 2009-2011).

Awards and Honors

- **2001 and 2002:** 1st Ranked Student in Plant Protection at Guilan University, Faculty of Agriculture.

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- **2004:** Ranked 8th at the M. Sc. General Entrance Exam held by Ministry of Science, Research and Technology of Iran.
- **2006:** 1st Ranked Student in Entomology in M. Sc. at Tarbiat Modares University, Tehran, Iran.
- **2006:** 1st Ranked at Ph. D. Entrance Exam of Tarbiat Modares University, Tehran, Iran.
- **2011:** 1st Ranked Student in Entomology in Ph. D. at Tarbiat Modares University, Tehran, Iran.

Publications

Journals

- Osouli, Sh., **Atapour, M.** and Ahmadi, M. 2020. Effect of gamma radiation on the biology and inherited sterility in European corn borer *Ostrinia nubilalis* Hubner (Lep: Crambidae). Applied Radiation and Isotopes. (Accepted).
- **Atapour, M.** and Osouli, Sh. 2019. Investigation of the Biology and Infestation of the Citrus Leafminer (Lepidoptera: Gracillariidae) on Four Different Hosts. Canadian Entomologist, 151: 329-339.
- Shokri, sh., Osouli, Sh., **Atapour, M.**, and Imani, S. 2018. Evaluation of Sterile Insect Technique for Controlling of Diamondback moth *Plutella xylostella*. Applied Researches in Plant Protection, 7(3): 19-29.
- Osouli, Sh. and **Atapour, M.** 2018. Effects of gamma radiation on the Biology, reproduction and mating competitiveness of Citrus leaf miner *phyllocnistis citrella* Stainton. Journal of Asia Pacific Entomology.21: 301-308.
- Ziaee, M., **Atapour, M.** and Marouf A. 2018. Persistence and efficacy of four Iranian diatomaceous earths against three stored grains beetles. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences , 88 (1): 411-419.
- **Atapour, M.** 2017. Cryoprotectants in Lab-reared and Overwintering Pupae of Large Cabbage White, *Pieris brassicae* (Lepidoptera: Pieridae). Iranian Journal of Plant Protection Science, 48 (1): 139-150.
- **Atapour, M.**, Bolandnazar. A. and Memarzadeh, M>R. 2017. Insecticidal effects of stick formulation of five medicine plants essential oils against sawtoothed grain beetle, *Oryzaephilus surinamensis* and the khapra beetle, *Trogoderma granarium*. Plant Pest Research, 7(1): 29-42.
- **Atapour, M.** and Osouli, Sh. 2017. The Effect of Different Temperatures on Biology of Citrus Leafminer, *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in Lab-condition. Journal of the Entomological Research Society, 37 (2): 223-234.
- Mohammadi Bazrgani, M. and **Atapour, M.** 2017. Comparative analysis of different extracts of *Ajuga chamaecistus* ssp. *scoparia* on antibacterial activity". Journal of Essential Oil Bearing Plants, 20 (4): 1117 – 1124.

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- **Atapour, M.** 2016. Investigation of Overwintering and Cold Tolerance in Pupae of Large Cabbage White, *Pieris brassicae* (Lepidoptera: Pieridae) in Iran. Iranian Journal of Plant Protection Science, 46(2): 269-276.
- Ziaee, M., **Atapour, M.** and Marouf A. 2016. The insecticidal efficacy of Iranian diatomaceous earth deposits against adults of *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae). Plant Protection, 39 (3): 51-61
- Ziaee, M., **Atapour, M.** and Marouf A. 2016. Insecticide Effectiveness of Iranian Diatomaceous Earths on Adults of *Oryzaephilus surinarnensis* . Journal of Agricultural Science and Technology, 18:361-370.
- **Atapour, M.** and Moharramipour, S. 2014. Cold Hardiness Process of Beet Armyworm Larvae *Spodoptera exigua* (Lepidoptera: Noctuidae). Journal of Crop Protection, 3 (2): 147-158.
- **Atapour, M.** and Moharramipour, S. 2011. Association of Cold Acclimation with Freezing Tolerance in the Beet Armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae'. Applied Entomology and Phytopathology. 79 (2): 219-235. (In Persian with English Abstract).
- **Atapour, M.** and Moharramipour, S. 2011. Changes in Supercooling Point and Glycogen Reserves in Overwintering and Lab-Reared Samples of Beet Armyworm, *Spodoptera exigua* (Hübner) (Lepidoptera: Nuctoidae) to Determining of Cold Hardiness Strategy. Applied Entomology and Phytopathology. 78 (2): 199-216. (In Persian with English Abstract).
- **Atapour, M.** Moharramipour, S. and Barzegar, M. 2011. Changes of Cryoprotectants in Overwintering Larvae of Beet Armyworm, *Spodoptera exigua* (Hübner) (Lepidoptera: Noctuidae). Journal of Entomological Society of Iran. 31 (2): 33-50. (In Persian with English Abstract).
- Saeedi, F., Moharramipour, S. and **Atapour, M.** 2011. Changes of Supercooling Point and Chill Tolerance in Overwintering Adults of Cabbage Aphid, *Brevicorine brassicae* (L.). Journal of Entomological Society of Iran. 31 (2): 79-91. (In Persian with English Abstract).
- Soudi, Sh., Moharramipour, S. and **Atapour, M.** 2011. Major Cryoprotectants in Overwintering Adults of Elm Leaf Beetle, *Xanthogaleruca luteola* (Coleoptera: Chrysomelidae). Journal of Entomological Society of Iran. 31 (2): 17-32. (In Persian with English Abstract).
- **Atapour, M.** and Moharramipour, S. 2009. Changes of Cold hardiness, Supercooling Capacity and Major Cryoprotectants in Overwintering Larvae of Rice Stem Borer, *Chilo suppressalis* Walker (Lep: Pyralidae). Environmental Entomology, 38(1): 260+265.
- **Atapour, M.** and Moharramipour, S. 2008. Cold-hardiness Strategy of Diapausing Larvae of the Rice Stem Borer, *Chilo suppressalis* in Iran. Environmental Science, 4(4): 89-98. [In Persian with English Abstract].
- **Atapour, M.**, Moharramipour, S. Barzegar, M. and Khani, A. 2008. Some Cryoprotectants in Overwintering Larvae of the Rice Stem Borer, *Chilo suppressalis* in North Part of Iran. Applied Entomology and Phytopathology, 75 (2): 27- 38. [In Persian with English abstract].
- **Atapour, M.**, Moharramipour, S. and Barzegar, M. 2007. Seasonal Changes of Fatty acid Compositions in Overwintering Larvae of Rice Stem Borer, *Chilo suppressalis* (Lepidoptera: Pyralidae). Journal of Asia- Pacific Entomology, 10 (1): 33 +38.

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Congresses:

- **Atapour, M. 2019.** Granular formulation of essential oil of wormwood, *Artemisia absinthium* against four stored-product pests. 3rd Iranian International Congress of Entomology, Tabriz, Iran.
- Osouli, Sh., **Atapour, M.** and Ahmadi, M. 2019. Effects of gamma irradiation on the reproduction biology of European corn borer *Ostrinia nubilalis* Hübner (Lep: Pyralidae). 3rd Iranian International Congress of Entomology, Tabriz, Iran.
- **Atapour, M.**, Osouli, Sh. and Ahmadi, M. 2018. Biology of the European corn borer *Ostrinia nubilalis* (Hübner) (Lep.: Crambidae) on natural and semi-artificial diets under laboratory conditions. 23th Iranian Plant Protection Congress, Gorgan, Iran.
- Sodagari, K., Osouli, Sh., Targari, S. and **Atapour, M.** 2018. Interaction effect of gamma radiation and essential oil of *Thymus vulgaris* on biology of *Plodia interpunctella* (Hubner) (Pyralidae, Lepidoptera). 23th Iranian Plant Protection Congress, Gorgan, Iran.
- Osouli, Sh., Ahmadi, M., Kalantarian, N. and **Atapour, M.** 2018. A comparison of artificial diet for the rearing of *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) based on biological characteristics. 23th Iranian Plant Protection Congress, Gorgan, Iran.
- **Atapour, M.** 2018. Antifeedant activity and durability of essential oil of *Pelargonium graveolens* on the larvae of Indian-meal moth, *Plodia interpunctella*. International conference on Agricultural Science, Medicinal Plants and Traditional medicine. Mashhad, Iran.
- Osouli, Sh., **Atapour, M.**, Ahmadi, M. and Shokri, sh. 2017. Mass rearing and Effects of Gamma Irradiation on the Pupal Mortality and Reproduction of Citrus Leaf Miner *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae). 19th International Conference on Entomology, Paris, France.
- Azarnoush, M. **Atapour, M.** and Imani, S. Insecticidal Activity of the Essential Oils of *Mentha piperita* and *Thymus vulgaris* against three Stored- product Pests. 2017. 6th National Congress on Medicinal Plants, Tehran, Iran.
- Shizadi, S., **Atapour, M.** and Imani, S. Fumigant Toxicity of Essential Oils OF *Heracleum persicum* and *H. antaciaticum* on Two Stored- product Pests .2017. 6th National Congress on Medicinal Plants, Tehran, Iran.
- **Atapour, M.** and Osouli, Sh. 2016. Biology of Citrus Leafminer, *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in Laboratory Conditions. 22th Iranian Plant Protection Congress, Tehran, Iran.
- Osouli, Sh. and **Atapour, M.** 2016. Evaluating of gamma radiation on biological and reproductive characteristics of citrus leaf miner *Phyllocnistis citrella* (Lepidoptera: Gracillariidae). 22th Iranian Plant Protection Congress, Tehran, Iran.
- **Atapour, M.** and Tafaghodinia, B. 2016. Investigation of Wing Scale Size in Angoumois grain moth, *Sitotroga cerealella* (Lep: Gelechiidae) and Determination the Type of Suitable Respirator for Use in Insectarium. 3rd National meeting on biocontrol in agriculture and national resources of Iran, Feb 2-3, Mashhad, Iran.

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- Azarnoush, M., **Atapour, M.** and Imani, S. 2015. Different formulations of plant components against pests. 4th Conference of medical plants and sustainable agriculture. Dec 17, Hamadan, Iran
- Shirzadi, S., **Atapour, M.** and Imani, S. 2015. Slow-release components of essential oils for plant pests control. 4th Conference of medical plants and sustainable agriculture. Dec 17, Hamadan, Iran.
- **Atapour, M.** and Osouli, Sh. 2015. Study of Metabolic Quiescent of Overwintering Pupae of Large Cabbage White, *Pieris brassicae* (Lepidoptera: Pyralidae) by Measuring Respiratory Gases. Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- **Atapour, M.**, Ziaee, M., Osouli, Sh. and Gholampour, M. 2015. The Essential Oil Composition of *Ajuga chamaecistus* and Its Insecticidal Effects on the Sawtoothed Grain Beetle, *Oryzaephilus surinamensis* (Col: Silvanidae). Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- Osouli, Sh., Afsharmanesh, H. and **Atapour, M.** 2015. Evaluation of biosurfactants effects of *Bacillus subtilis* UTB1 and mutant M419 induced by gamma irradiation against lime swallowtail *Papilio demoleus* L. (Lep: Papilionidae). Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- Ziaee, M., Marouf, A. and **Atapour, M.** 2015. Insecticidal efficacy of Iranian diatomaceous earths against adults of *Sitophilus oryzae*. Iranian International Congress of Entomology, Aug 29-31, Tehran, Iran.
- **Atapour, M.**, S. Moharramipour and Osouli, Sh .2014. Cryoprotectants of overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pieridae). 21th Iranian Plant Protection Congress, Urmia, Iran. P. 548.
- **Atapour, M.**, S. Moharramipour and Osouli, Sh .2014. Changes of membrane fatty acids in overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pieridae). 21th Iranian Plant Protection Congress, Urmia, Iran. P. 672.
- **Atapour, M.**, S. Moharramipour .2014. The Role of the Studies on Physiology of Overwintering in Pest Management.3th Insect Pest Management Conference, Kerman, Iran.
- **Atapour, M.**, S. Moharramipour .2014. The Importance of Cryoprotectants of Large Cabbage Butterfly Overwintering Pupae in This Pest Management. 3th Insect Pest Management Conference, Kerman, Iran.
- Osouli, Sh., Haddad Irani Nejad1, K., Ziaie, F., Moghaddam, M. and **Atapour, M.**2014. Application of Gamma Irradiation on all developmental Stages of *Tetranychus Urticae* Koch as a Quarantine Treatment of Cut Flowers and ornamentals. 21th Iranian Plant Protection Congress, Urmia, Iran. P. 1025.
- Osouli, Sh., Haddad Irani Nejad1, K., Ziaie, F., Moghaddam, M. and **Atapour, M.**2014. Study of suggested quarantine dose of 350 Gy on Two-spotted spider mite, *Tetranychus Urticae* Koch and vase life of gladiolus cut flowers. 21th Iranian Plant Protection Congress, Urmia, Iran. P. 1026.
- Mohammadi Bazargani, M. and **Atapour, M.** 2014. The in vitro antibacterial activities of essential oil and different solvent extracts of *Ajuga chamaecistus*. 1st international and 13th Iranian crop science congress. Karaj, Iran. 1-4.

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- **Atapour, M.** 2014. Relationship between trehalose and diapase in overwintering pupae of large cabbage butterfly, *Pieris brassicae* (Lep: Pyralidae). National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. Antifreeze Proteins and their use in agriculture and other industries. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. Diapause hormones in insects and their importance in pest management. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. The role of cell membrane lipids and fatty acids in overwintering insects. National Conference on Stable Agriculture and Natural Resources. Tehran, Iran.
- **Atapour, M.** 2014. The use of insect pheromones in integrated pest management and their environmental benefits. National Conference on Environment, Energy and Biodefense. Tehran, Iran.
- **Atapour, M.** and Mohammadi Bazargani, M. 2014. Pest resistance to pesticides and their impact on the environment and biological defense. National Conference on Environment, Energy and Biodefense. Tehran, Iran.
- **Atapour, M.,** S. Moharramipour .2012. Changes in cell membrane fatty acid compositions in overwintering pupae of the beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 441. P. 810.
- **Atapour, M.,** S. Moharramipour .2012. Metabolic depression in overwintering pupae of the beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 441. P. 811.
- **Atapour, M.,** Moharramipour, S., Barzegar, M. and. Hosseinkhani, S. 2010. Determination of sugars and polyols in lab-reared and overwintering larvae of beet armyworm, *Spodoptera exigua* (Lepidoptera: Noctuidae). European Congress of Entomology, Budapest, 22-27 August, 2010 ,
- **Atapour, M.,** S. Moharramipour 2010. Cold hardiness strategy in the overwintering Pupae of beet armyworm, *Spodoptera exigua* (Lep: Noctuidae). 19th Iranian Plant Protection Congress, Tehran, Iran. P. 441.
- **Atapour, M.,** S. Moharramipour 2008. Comparison of cold hardiness strategy in diapause and nondiapause larvae of rice stem borer, *Chilo suppressalis* Walker in Iran. 18th Iranian Plant Protection Congress, Hamadan, Iran. P. 442
- **Atapour, M.,** S. Moharramipour 2006. Diapause condition in overwintering larvae of rice stem borer, *Chilo suppressalis* Walker. 17th Iranian Plant Protection Congress, Karaj, Iran. P. 303.
- **Atapour, M.** Moharramipour, S. and Barzegar, M. 2006. Relationship between glycerol and major nutritional reserves in overwintering larvae of rice stem borer, *Chilo suppressalis*. 17th Iranian Plant Protection Congress, Karaj, Iran. P. 369.

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- **Atapour, M.,** S. Moharramipour 2005. Cold hardiness of overwintering larvae of rice stem borer *Chilo suppressalis* Walker (Lepidoptera: Pyralidae) in Iran. First International Symposium on the Environmental Physiology of Ectotherms and Plants. Denmark, p. 11.

Patents

- **Mechanized system for collecting of moths in insectariums.** 2016.
- **Biocompatible macrocapsules of plant essential oils for pest control.** 2018.

Professional Experiences

Teaching

- **Entomology and pest management,** Azad University of Shahre Ghods. Shahre Ghods, Tehran, Iran, 2011 -2015.
- **Management of plant pests.** Azad University of Shahre Ghods. Shahre Ghods, Tehran, Iran, 2011 -2015.
- **Genetics for plant protection students,** Azad University of Eslamshahr. Eslamshahr, Tehran, Iran, 2012.
- **Principles of insect physiology lab.** Entomology lab. Department of Entomology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran. 2009-2011.

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Interests:

- Overwintering physiology and Biochemistry of Insects.
- Use of chemical ecology and insect pheromones in pest management as alternative to pesticides.
- Use of essential oils or other safe pest control methods.

Memberships

- Technical Committee of Kharazmi International Award.
- Technical Committee of Kharazmi Young Award.
- Iranian Entomologist Society.
- Extension Group of Environmentalist (EGE)
- Agricultural and Natural Resources Engineering Organization (ANREO)
- Reviewer of JCP (Journal of Crop Protection- Tarbiat Modares University).
- Reviewer of Journal of Entomological Society of Iran.
- Reviewer of Iranian Journal of Plant Protection Science (Tehran University).