

Curriculum vitae of Mohammad Saadati
Assistant Professor (Toxicology and Insect Physiology)
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Education

- BSc (2004). Plant Protection, Ferdowsi University of Mashhad, Mashhad, Iran.
- MSc (2007). Agricultural Entomology, University of Tabriz, Tabriz, Iran.
- Ph.D (2012). Toxicology and Insect Physiology, University of Tabriz, Tabriz, Iran.

Scholarships and Honors

- 2000-2004. The best score in entrance exam to department of plant protection (BSc).
- 2004-2007. The first score graduated in MSc.
- 2008. The first score in entrance exam to Ph.D.
- 2010. Sabbatical (Proteomics) in Japan.
- 2004-2012 Top student in University of Tabriz.

Professional Positions

- Editorial board member of the "Journal of Enzyme Engineering" (USA).

- Editorial board member of the "Journal of Metabolic Diseases" (USA).
- Reviewer (Referee) of the "Journal of Enzyme Engineering" (USA).
- Reviewer (Referee) of the "Journal of Biotechnology and Biomaterials" (USA).
 - Reviewer (Referee) of the "African Journal of Biotechnology" (Africa).
 - Reviewer (Referee) of the "Journal of Advanced Entomology" (China).
 - Reviewer (Referee) of the "Journal of Plant Protection" (Iran).
 - Reviewer (Referee) of the "Journal of Entomological Society of Iran" (Iran).
 - Reviewer (Referee) of the "Journal of Crop Protection" (Iran).
 - Reviewer (Referee) of the "Journal of Science and Technology of Greenhouse Culture"(Iran).
- Reviewer (Referee) of the "Journal of Natural Environment (Iranian Journal of Natural Resources)" (Iran).
- Reviewer (Referee) of the "Iranian Journal of Cotton research" (Iran).
- Scientific committee member of the "New Finding in Environmental and Agricultural Ecosystems". University of Tehran, Tehran, Iran.
- Member of Entomological Society of Iran.

Teaching Experience

- 2012- now Toxicology
- 2012- now Zoology
- 2012- now Biochemistry
- 2012- now Insect Physiology
- 2012- now Agricultural pest
- 2012- now Entomology

Published manuscripts

- 1- Saadati Bezdi M, Farshbaf R, Valizadeh M, Yazdanian M. 2007. Effect of some mineral compounds on the salivary α -amylase activity of the sunn pest, *Eurygaster integriceps* (Put.) (Heteroptera: Scutelleridae). Turkish Journal of Entomology, 31: 1-13.
- 2- Saadati Bezdi M, Farshbaf R, Golmohammad GH, Sadeghi H. 2008. Some properties of α -amylase in the salivary gland of *Eutygaster integriceps* (Put.)(Het.,Scutelleridae). Munis Entomology and Zoology, 3: 733-746
- 3- Saadati Bezdi M, Farshbaf R, Toorchi M, Zarghami N, Komatsu S. 2012. Protein patterns in salivary gland of sunn pest, *Eurygaster integriceps* (Put.) Turkish Journal of Entomology, 36: 215-223.
- 4- Saadati Bezdi M, Toorchi M, Farshbaf R, Zarghami N. 2012. Protein map of gut in adult sunn pest, *Eurygaster integriceps* Put. (Hem: Scutelleridae): Two dimensional electrophoresis technique. Munis Entomology and Zoology, 7:229-238.
- 5- Saadati Bezdi M, Farshbaf R, Toorchi M, Zarghami N, Komatsu S. 2012. Proteome analysis of gut and salivary gland proteins of 5th instar nymph and adults of the sunn pest, *Eurygaster integriceps*. Archives of Insect Biochemistry and Physiology, 81: 105-119.
- 6- Arzanlou M, Khodaei S, Saadati Bezdi M. 2012. Occurrence of *Chaetomidium arxii* on sunn pest in Iran. Mycosphere, 3: 234-239.
- 7- Taleh M, Saadati M, Farshbaf R, Khakvar R .2014. Partial characterization of phenoloxidase enzyme in the hemocytes of *Helicoverpa armigera*. Journal of King Saud University, 26: 285- 289.
- 8- Saadati M. 2015. The importance of salivary enzymes in sunn pest-wheat interaction. Enzyme Engineering:4,1.
- 9- Saadati M. 2016. Toxicity of Diazinon against Adults of confused flour beetle (*Tribolium confusum* Jasquelin) under laboratory condition. International Journal of Farming and Allied Sciences, 5: 344-348.
- 10- Saadati M, Mirzaei M. 2016. Insecticide-Enzyme Interaction: Cypermethrin, Chlorpyrifos, Diazinon and Deltamethrin with α -Amylase and Lipase in the Gut of Sunn Pest, *Eurygaster integriceps*. Biological Systems: Open Access, 5:2.
- 11- Saadati M, Toorchi M. 2017. The study of plant protein accumulation in gut of insect

- using proteomics technique: Wheat-sunn pest interaction. *Journal of the Saudi Society of Agricultural Science*, 16: 205-209.
- 12- Saadati M, Allahyari H. 2018. Toxicology In Vitro: The Study Of Biochemical Effects Of Fenitrothion And Fenvalerate On The Enzyme Activity. *Journal of Pesticides and Biofertilizer*, 1(5): 1-10.
- 13- Saadati M, Nouripure S. 2020. Bottom-up Proteomics: Identification of Salivary Gland Proteins in the Bishop's Mitre Shieldbug, *Aelia Acuminata*. *Biomacromolecular Journal*, 6: 95-103.
- 14- Saadati M, Toorchi M. 2021. Identification of Bacterial Proteins in the Gut of Sunn pest, *Eurygaster integriceps*. *Journal of Cell and Molecular Research*, 12: 97-103.
- 15- Saadati M, Rafiei Z. 2021. Effects of chlorpyrifos on the alpha-amylase activity in the in vivo and in vitro conditions: Case study: *Sitophilus oryzae*. *Journal of Horticulture and Postharvest Research*, 4: 189-198.
- 16- Saadati M. 2022. Proteome analysis: identification of accumulated plant proteins in the gut of adults *Aelia acuminata*. *Cellular and Molecular researches*, In Press (Persian).

Posters and orals (Full paper)

- 1- Saadati M. 2019. Investigation of biochemical effects of fenitrothion and permethrin on the amylase activity in the gut of *Nezera viridula*. *International Congress of New finding in Agricultural and Natural Resources, Environment and Tourism*. Tehran, Iran.
- 2- Saadati M, Saadati M. 2019. Study of some sulphate and chlorate compounds on the amylase activity in gut of *Aelia acuminata*. *International Congress of New finding in Agricultural and Natural Resources, Environment and Tourism*. Tehran, Iran.
- 3- Saadati M. 2019. Identification of Cyclin-c in the 2nd nymph stages of sunn pest. *National Congress of New Technologies in the Chemistry Engineering and Biology*. Tehran, Iran.
- 4- Saadati M, Rafiei Z. 2019. Investigation of contact toxicity of malathion on the *Tribolium confusum*. *5th international Conference of New Research Finding in Agriculture, Natural Resources and Environment*. Shiraz, Iran.
- 5- Saadati M, Abbasi H. 2020. Investigation of Danitol residues on cucumbers in the farms of Torbate Jam. *National Conference on Health and Food Industry*. Ahvaz, Iran.

- 6- Saadati M, Rafiei Z. 2020. The potential of using the herbal and low-risk of sirinol to control rice weevils. National Conference on Health and Food Industry. Ahvaz, Iran.
- 7- Saadati M. 2020. Investigation of the effect of temperature treatment (alternative to chemical control) on two important date storage pests: Indian moth and sawtoothed grain beetle. National Conference on Health and Food Industry. Ahvaz, Iran.
- 8- Saadati M, Nouripure S. 2021. Evaluation of the effect of clotianidine on alpha-amylase activity in fifth instar nymphs of *Eurygaster integriceps*. 2nd National Conference on New Biological Finding. Zahedan, Iran.
- 9- Saadati M, Nouripure S. 2021. Identification of three bacterial proteins in the gut of adult *Nezara viridula* using proteomics. 2nd National Conference on New Biological Finding. Zahedan, Iran.
- 10- Saadati M, Rafiei Z. 2021. Investigation of the effect of some mineral compounds on the alpha-amylase activity in the gut of cotton bollworm, *Helicoverpa armigera* under laboratory condition. 2nd National Conference on New Biological Finding. Zahedan, Iran.

Posters and orals (Abstract)

- 1- Saadati et al. α -Amylase activity in the Gut and Salivary Gland of the *Eurygaster integriceps* (Put.) (Het: Scutelleridae). Proceedings of the second Plant Protection Congress of Turkey. 27- 29 August 2007-Isparta.
- 2- Saadati et al. Some properties of salivary α -Amylase of the *Eurygaster integriceps* (Put.) (Het: Scutelleridae). Proceedings of the second Plant protection congress of Turkey. 27-29 August 2007-Isparta.
- 3- Saadati et al. The study of some morphometric properties in different parts of salivary gland in sunn pest. Proceedings of the 19th Plant protection congress of Iran, 1-4 September, 2010- Hamedan.
- 4- Saadati et al. Proteomics analysis in gut of sunn pest: Adult insects and fifth-instar nymphs. VII th International Conference on Arthropods. 18-23 September 2011- Poland.
- 5- Saadati et al. Proteome analysis of digestive system in sunn pest, *Eurygaster integriceps* (Put): Salivary gland and Gut. Proceedings of the 20th Plant protection congress of Iran 1-4 September, 2012- Iran.

- 6- Saadati et al. Report of α -amylase as defense protein of wheat in gut of adult sunn pest, *Eurygaster integriceps* Put., using Proteomics technique. Proceedings of the 21st Plant protection congress of Iran, 1-4 September, 2014- Urmia.
- 7- Saadati et al. Investigation of diazinon and deltamethrin effects on the midgut α -amylase activity in the Adult sunn pest. 1st Iranian International Congress of Entomology. 29-31 August 2015-Tehran.
- 8- Saadati et al. Insecticide- enzyme interaction: cypermethrin and chlorpyrifos with midgut lipase of adult sunn pest. 1st Iranian International Congress of Entomology. 29-31 August 2015- Tehran.
- 9- Saadati et al. Toxicity of Chlorpyrifos and Cypermethrin on the adult confused flour beetles, *Tribolium confusum* (Col: Tenebrionidae). 1st Iranian International Congress of Entomology. 29-31 August 2015-Tehran.
- 10-Saadati et al. Investigation of inhibitory effect of abamectin and fenvalerate effects on the midgut α -amylase activity in the Adult sunn pest. 14th Iranian Congress of Biochemistry. 16-18 August 2016- Tehran.
- 11- Saadati et al. Insecticide- enzyme interaction: Fenitrothion with midgut lipase and α -amylase of adult sunn pest. 14th Iranian Congress of Biochemistry. 16-18 August 2016- Tehran.
- 12- Saadati et al. Investigation of Toxicity effects of dichlorvos and cyhalothrin ef on the Adult *Tribolium confusum*. 23rd Iranian Plant Protection Congress. 27-30 August 2018- Gorgan.
- 13- Saadati et al. Report of Triticin alpha protease from gut of adult sunn pest usin proteomics . 23rd Iranian Plant Protection Congress. 27-30 August 2018- Gorgan.
- 14-Saadati et al. Toxicity of Fenitrothion and Fenvalerate on the adult confused flour beetles, *Tribolium confusum* (Col: Tenebrionidae). 2nd Iranian International Congress of Entomology. 29-31 August 2017-Tehran.
- 15- Saadati et al. Identification of aldose reductase in the gut of recurrent sunn pest, *Eurygaster integriceps* using proteomic technique. 2nd Iranian International Congress of Entomology. 29-31 August 2017-Tehran.
- 16- Saadati et al. up-regulated proteins after feeding in the gut of Sunn pest using proteomics technique. 3rd Iranian International Congress of Entomology. 9-11

September 2019-Tabriz.

- 17- Saadati et al. Effects of cypermethrin and diazinon on the gut α -amylase activity in the rice weevil, *Sitophilus oryzae*. 3rd Iranian International Congress of Entomology. 9-11 September 2019-Tabriz.
- 18- Saadati et al. The investigation of toxicity of phenpropathrin against *Tetranychus urticae* in the melon farm. 9th International Congress on Biology. 16-19 Feb 2020- Semnan.
- 19-Saadati et al. Insecticide-enzyme interaction:sprotetramat with alpha amylase in the *Agonoscena pistaciae*. 9th International Congress on Biology. 16-19 Feb 2020- Semnan.
- 20- Saadati et al. Toxicity of *Ferula assafoetida* extract on the adult of confused flour beetle, *Tribolium confusum*. 9th International Congress on Biology. 16-19 Feb 2020- Semnan.

Interesting fields

- ❖ Biochemistry of insects (Animal)
- ❖ Proteomics (Plant and Animal)
- ❖ Toxicology (Pesticides)
- ❖ Applied Entomology