



CURRICULUM VITAE

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Academic qualifications

PhD: Entomology (Insect Physiology), Moscpw State University, Russia

MSc: Agricultural Entomology, Karaj Campus, University of Tehran

BSc: Plant Protection, Faculty of Agriculture, Mashad University

Research interests

- Insect Physiology (Study Insect Chemoreceptor)
- Insect Hormone & Pheromone
- Study of IGR substances
- Pests of Subtropical Trees (Pomegranate , Grape & Pistachio)

Selected Research projects

-Research on the “Development of a mass trapping method by synthetic attractants for the control of red palm weevil, *Rhynchophorus ferrugineus* Oliv., in the frame of an integrated control strategy, as a joint project between Agricultural National Research Institute of France and Iranian Research Institute of Plant protection (1997-2000).

-Research on the “Investigation on food preference of red palm weevil, *Rhynchophorus ferrugineus* Oliv., on Iranian date palm varieties in field and laboratory”, Saravan Plant pests & Diseases Research Laboratory (1999-2001).

-Research on the “Study on the effect of crown covering of pomegranate flowers on control of fruit moth, *Ectomyelois ceratoniae* (Lepidoptera: Pyralidae)”, Iranian Research Institute of Plant protection (2007-2010).

- Research on the “Studies on population dynamics and regulatory factors of the Carob moth, *Ectomyelois ceratoniae* (Lepidoptera: Pyralidae) on pomegranate and fig”, Iranian Research Institute of Plant protection (2007-2011).
- Research on the “Integrated management for control of carob moth *Ectomyelois ceratoniae* (Lep.: Pyralidae)”, Iranian Research Institute of Plant protection (2007-2012).
- Research on the “The Identification of the Pheromones of Harmful Pyralids to the Pomegranate and the Other Fruit Trees in Iran and the Investigation on the Effect of Host-Plant on Their Pheromone Composition”, Iranian Research Institute of Plant protection (2008-2012).
- Research on the “The supplementary study on the oviposition prevention of pomegranate moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae), through the elimination of flowers stamens and its effect on others pomegranate pests and natural enemies”, Iranian Research Institute of Plant protection (2008-2011).
- Research on the “Study of the efficiency of Neonicotinoid Insecticides for control of grape cicada, *Psalmocharias alhageus* (Hom.: Cicadidae)”, Iranian Research Institute of Plant protection (2008-2012).
- Research on the “A study on the efficacy of kaolin clay on the pomegranate fruit moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae), in pomegranate orchards”, Iranian Research Institute of Plant protection (2009-2011).
- Research on the “Practical Application of Ionizing radiation for controlling of Pomegranate moth, *Ectomyelois ceratoniae* Zeller”, Iranian Research Institute of Plant protection (2009-2012).
- Research on the “A preliminary study on efficacy of film-forming polymers to control pomegranate fruit moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae), in pomegranate orchards”, Iranian Research Institute of Plant protection (2010-2012).
- Research on the “Effect of diflubenzuron (Dimilin SC48%) on grape berry moth, *Lobesia botrana* (Lep.: Tortricidae)”, Iranian Research Institute of Plant protection (2010-2011).
- Research on the “Evaluation of the synthetic sex pheromone of pomegranate fruit moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae), in pomegranate orchards”, Iranian Research Institute of Plant protection (2010-2012).
- Research on the “Efficacy of commercial herbal pesticides on sucking pests of pomegranate”, Iranian Research Institute of Plant protection (2010-2012).
- Research on the “Effect of kaolin for control of *Diaphorina citris*, Iranian Research Institute of Plant protection (2010-2012).

-Research on the “Integrated management for control of grape cicada, *Psalmocharias alhageos* (Hom.: Cicadidae)”, Iranian Research Institute of Plant protection (2010-2015).

-Research on the “The preliminary efficacy of diatomaceous earth on grape cicada, *Psalmocharis alhageos*”, Iranian Research Institute of Plant protection (2010-2014).

-Research on the “A preliminary study on the usage of kaolin clay for oviposition prevention of grape cicada, *Psalmocharis alhageos*”, Iranian Research Institute of Plant protection (2011-2013).

-Research on the “Comparison of synthetic pheromone traps capture for pomegranate fruit moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae)”, Iranian Research Institute of Plant protection (2011-2013).

-Research on the “The preliminary study on the oviposition disruption of grapevine cicada, *Psalmocharias alhageus* Kol. (Hem.: Cicadidae), by playback of vibrational signals”, Iranian Research Institute of Plant protection (2011-2013).

Selected Publications

-**Farzmand, H.**, Rassoulia, Gh.R. and H. Bayat-Assadi. **2000**. Comparative notes on larval growth and development of red palm weevil, *Rhynchophorus ferrugineus* Oliv.(Col.: Curculionidae), on date palm varieties in Saravan region. Journal of Entomological Society of Iran. Vol. 19(1&2): 1-14. (*Persian with English summary*)

-**Farzmand, H.**, Rassoulia, Gh.R. and Kh. Talebi-Jahromi. **2001**. Host preference of red palm weevil, *Rhynchophorus ferrugineus* Oliv., on date palm important varieties of Balouchistan, Iran in field condition. Iranian journal of Agricultural Sciences. Vol. 32(1): 121-129. (*Persian with English summary*)

-**Farzmand, H.** **2002**. Investigation on the reasons of food preference of red palm weevil, *Rhynchophorus ferrugineus* Oliv. Journal of Applied Entomology & Phytopathology. Vol. 70(1): 49-61. (*Persian with English summary*)

-**Farzmand, H.** and St. Yu. Chaika. **2003**. The sensory receptors of the antennae and labio-maxillar complex of larvae Yellow Mealworm Beetle, *Tenebrio molitor* L. (Coleoptera: Tenebrionidae). Iranian Students Association Scientific Journal in Moscow. Vol. 5: 35-41. (*Persian with English summary*)-(Abstract - Full Paper)

-**Farzmand, H.**, Chaika, St. Yu. and E. E. Sinitsina. **2004**. Effect of hydroprene – juvenile hormone analogue on the development of Colorado potato beetle larvae, *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae). Full papers of the 4th International Iran and Russia Conference (Agriculture and Natural Resources). Shahrekord. Iran. P. 87-90. (*English*)

-**Farzmand, H.**, and S.Yu. Chaika. **2005**. Effect of precocene I – juvenile hormone inhibitor on chemoreceptor organs of Colorado potato beetle larvae, *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae). Full papers of the 13th Multi-

disciplinary Iranian Researchers Conference in Europe (Agricultural and Natural Resources Sciences). Leeds. United Kingdom. P. 7-10. (English)

-**Farzmand, H.**, and St.Yu. Chaika. **2007**. Morphology and ultrastructure of the antennae sense organs in Tenebrionid beetle larvae: *Tenebrio molitor* L. and *Zophobas rugipes* Kirsch (Col.: Tenebrionidae). Moscow University Biological Sciences Bulletin. Vol. 62(2): 76-82 (English & Russian)

-**Farzmand, H.** **2007**. Application of Insect Hormones in Plant Pest Control. Iranian Entomological Information Web (www.entomology.ir). 8 p. (Persian with English summary)-(Abstract - Full Paper)

-**Farzmand, H.**, and St.Yu. Chaika. **2008**. Morphology and ultrastructure of chemosensory sensilla of maxillary and labial palps in the Colorado potato beetle larvae, *Leptinotarsa decemlineata* Say, (Col: Chrysomelidae). Journal of Entomological Society of Iran, Tehran. Vol. 27(2): 1-11 (English with Persian summary)

- **Farzmand, H.**, and St.Yu. Chaika. **2009**. Effect of Precocene-I and II, inhibitors of juvenile hormone, on development of Colorado potato beetle, *Leptinotarsa decemlineata* Say. Applied Entomology and Phytopathology, Tehran, Iran. Vol. 76(1): 27-43. (Persian with English summary)

-Zolfaghari, H., Vafaei-shoushtari, R., **Farzmand, H.**, Ardakani, M. R., Babai, M. and H. Mostafavi. **2009**. Application of nuclear technique for determination controlling dose of pomegranate fruit moth, *Ectomyelois ceratoniae* Zeller (Lep.: Pyralidae). Journal of Entomological Research, Arak, Iran. Vol. 1(1): 35-42. (Persian with English summary)

-**Farzmand, H.** **2009**. Effect of insect growth regulators on digestive system of Colorado potato beetle larvae, *Leptinotarsa decemlineata* Say. (Col.: Chrysomelidae). Journal of Entomological Research, Arak, Iran. Vol. 1(2): 111-121. (Persian with English summary)

-Sheikhali, T., **Farzmand, H.** and R. Vafaei-shoushtari. **2009**. Effect of stamens elimination methods on damage reduction of pomegranate fruit moth, *Ectomyelois ceratoniae* (Lep.: Pyralidae) in Saveh region. Journal of Entomological Research, Arak, Iran. Vol. 1(2): 163-172. (Persian with English summary)

-Rafiei-Karahroodi, Z., Moharrampour, S., **Farzmand, H.** and J. Karimzadeh-Esfahani. **2010**. Effect of eighteen plant essential oils on nutritional indices of larvae *Plodia interpunctella* Hubner (Lep., Pyralidae). Journal of Entomological Research, Arak, Iran. Vol. 1(3): 209-219. (Persian with English summary)

-Valizadeh, H., **H. Farzmand**. **2010**. Study on the efficacy of different control methods of vine cicada, *Psalmocharias alhageos* Kol.(Hem., Cicadidae) in Qom province. Journal of Entomological Research, Arak, Iran. Vol. 1(3): 261-268. (Persian with English summary)

-Habibi-Karahrodi, R., Vafaei-Shoushtari, R., Marouf, A., **Farazmand, H.**, Loni, S. 2010. Effects of heat treatments on mortality of different development stages of the red flour beetle, *Tribolium castaneum* Herbst. (Col., Tenebrionidae). Journal of Entomological Research, Arak, Iran. Vol. 1(4): 299-307. (Persian with English summary)

-Loni, S., **Farazmand, H.** 2010. Effect of teflubenzuron, hexaflumuron and pyriproxyfen compounds on nutritional indices of confused flour beetle, *Tribolium confusum* Duval (Col.: Tenebrionidae). Journal of Plant Protection, Mashad, Iran. Vol. 24(2): 159-164. (Persian with English summary).

-Rafiei-Karahroodi, Z., Moharramipour, S., **Farazmand, H.** and J. Karimzadeh-Esfahani. 2010. Repellent activity and fumigant toxicity of 18 essential oil on Indian meal moth, *Plodia interpunctella* Hübner (Lep., Pyralidae). Journal of Plant Protection, Mashad, Iran. Vol. 24(2): 165-172. (Persian with English summary).

-Rafiei-Karahroodi, Z., Moharramipour, S., **Farazmand, H.** & J. Karimzadeh-Esfahani. 2011. Insecticidal effect of six native medicinal plants essential oil on Indian meal moth, *Plodia interpunctella* Hübner (Lep.: Pyralidae). Munis Entomology & Zoology (MEZ). Vol. 6(1): 339-345. (English)

-Loni, S., Moarefi, M., **Farazmand, H.** & E. Karami. 2011. The effect of regulating compounds on the growth of *Tribolium confusum* Du Val (Coleoptera: Tenebrionidae). Munis Entomology & Zoology (MEZ). Vol. 6(1): 377-385. (English)

-Loni, S., **Farazmand, H.**, Sheikhi-Garjan, A., Rafiei-Karahrodi, Z. 2011. Susceptibility of larval stage of *Tribolium confusum* Duval (Col., Tenebrionidae) to IGR insecticides *in vitro*. Journal of Entomological Research, Arak, Iran. Vol. 2(2): 109-116. (Persian with English summary)

-**Farazmand, H.**, and St.Yu. Chaika. 2008. Morphology and ultrastructure of chemosensory sensilla of antenna in the Colorado potato beetle larvae, *Leptinotarsa decemlineata* Say, (Col: Chrysomelidae). Russian Entomological Journal. Moscow. Russia.. In press . (English & Russian)

-**Farazmand, H.** & S.Yu. Chaika, 2011, Effect of precocene I and II, juvenile hormone inhibitors, on the system of antennae and mouthparts of Colorado potato beetle, *Leptinotarsa decemlineata* Say, larvae. Journal of Entomological Society of Iran, Tehran, Iran. inpress. (English with Persian summary)

Selected Inventions

- **Pomegranate Stamen-remover machine.** October, 2009. Registration No. 6143. (in Iranian Patent Office).
- **Processed Kaolin.** May, 2010. Registration No. 65033. (in Iranian Patent Office).