

Curriculum vitae

Laleh Ebrahimi (Ph.D)

Date of birth: 19-07-1984

Nationality: Iranian

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Academic qualifications

PhD: Agricultural Entomology- Insect Pathology. University of Tabriz (2010-2014)

(**Thesis Title:** Lethal and sublethal effects of *Steinernema carpocapsae* against fourth instar larvae of Colorado potato beetle and two dimensional mapping of the immune system reaction against the infection)

MSc: Entomology- Insect Pathology. University of Tabriz (2006-2009)

(**Thesis Title:** Possibility of biological control of Colorado potato beetle, *Leptinotarsa decemlineata* (Chrysomelidae) by two entomopathogenic nematodes, *Steinernema feltiae* and *Heterorhabditis bacteriophora* in laboratory conditions)

BSc: Plant Protection. University of Tabriz (2002-2006)

Research interests:

- ✓ Entomopathogenic nematodes
- ✓ Insect pathology
- ✓ Biological control of pests
- ✓ Entomophilic nematodes

Selected projects:

- Isolation and identification of species and/or strains of entomopathogenic nematodes in Moghan plain and primarily evaluation of their virulence against corn cutworm *Agrotis segetum* (No.: 2-37-16-94204)
- Study of the distribution and density of cereal cyst nematodes and potato cyst nematodes in the potato fields and cereal fields in rotation with potato in Ardabil province (No.: 4-37-16-010-950070)
- Evaluation of the efficacy of a commercial product of entomopathogenic nematode, *Steinernema feltiae*, on potato tuber moth, *Phthorimaea operculella* Zeller (Lep.: Gelechiidae). (No.: 0-16-16-093-960531)
- Evaluation of some entomopathogenic agents and chemical Insecticides against wireworm (No.: 2-16-16-041-960152)
- Comparison of *Helicoverpa armigera* damage on different soybean Cultivars (No.: 0-16-0-16-003-9500050)
- Efficiency of new acaricide Chlorfenapyr (Payton®) 36% SC in comparison with the common acaricides for controlling two-spotted spider mite in Soya fields (No.: 04-16-16-081-970627)
- An Investigation on the Effects of two adjuvants (Scorch and Torpedo) on efficiency of Imidacloprid (SC 35%) and Flonicamid (WG50%) for control of *Aphis gossypii* on cucumber in greenhouse (No.: 0-16-16-024-970183)
- Alginate based formulation of endemic isolate of entomopathogenic nematodes (No.: 2-37-16-043-980251)
- Detection and screening (Biological and ecological) of local isolates of entomopathogenic nematodes in some of the provinces of Iran (0-16-16-042-980250)

Selected publications

Journal papers:

- Ebrahimi, L.,** Niknam, G., Lewis, E.E. 2011. Lethal and sublethal effects of Iranian isolates of *Steinernema feltiae* and *Heterorhabditis bacteriophora* on the Colorado potato beetle, *Leptinotarsa decemlineata*. *BioControl* 56: 781-788.
- Ebrahimi, L.,** Niknam, G., Dunphy, G.B. 2011. Hemocyte responses of *Leptinotarsa decemlineata* and *Galleria mellonella* to the entomopathogenic nematodes, *Steinernema feltiae* and *Heterorhabditis bacteriophora*. *Journal of Insect Science* 11:76 available online: insectscience.org/11.76.
- Ebrahimi, L.,** Niknam, G. 2011. Comparison of eight Iranian and exotic populations of entomopathogenic nematodes against an Iranian population of bollworm *Helicoverpa armigera* under laboratory conditions. *International Journal of Nematology*, 21: 192-198.

- Ebrahimi, L.,** Niknam, G., 2011. Detection of Thermal Preference Range of two Endemic Isolates of Entomopathogenic Nematodes, *Steinernema feltiae* (Steinernematidae, Tylenchina) and *Heterorhabditis bacteriophora* (Heterorhabditidae, Rhabditina) for Application in Biological Control of Insect Pests. Journal of Sustainable Agriculture and Production Science, 21:77–86.
- Ebrahimi, L.,** Niknam, G., Dunphy, G.B., Toorchi, M. 2014. Effect of an entomopathogenic nematode, *Steinernema carpocapsae* on hemocyte profile and phenoloxidase of the Colorado potato beetle, *Leptinotarsa decemlineata*. Biocontrol Science & Technology, Accepted 4 July, 24: 1383-1393.
- Ebrahimi, L.,** Niknam, G., Dunphy, G.B., Toorchi, M. 2014. Side effects of immune response of Colorado potato beetle, *Leptinotarsa decemlineata* against the entomopathogenic nematode, *Steinernema carpocapsae* infection. Invertebrate Survival Journal 05/2014; 11:132-142.
- Ebrahimi, L.,** Karbalaei, H., Sharifi, P., Didehbaz, Gh, Dunphy, G.B. 2015. Susceptibility of larvae of wheat sawfly, *Dolerus puncticollis* (Tenthredinidae; Hymenoptera) to an entomopathogenic nematode, *steinernema carpocapsae* and indoxacarb. Pakistan Entomologists. 37: 79-82.
- Ebrahimi, L.,** Shiri, M. R., Dunphy, G. B. 2016. Efficacy of the Entomopathogenic Nematode, *Steinernema feltiae* Against the Vegetable Leaf Miner, *Liriomyza sativae* Blanchard (Diptera: Agromyzidae). Egyptian Journal of Biological Pest Control, 26(3): 583.
- Ebrahimi, L.,** Shiri, M. R. 2017. Lethal Effects of Abamectin and Propargite on Moghan Population of Two Spotted Spider Mite, *Tetranychus urticae* Koch (Acari, Tetranychidae), and Efficacy of Their Residual Effects on the Bean Plants. Journal of Applied Researches in Plant Protection, 6: 1-9.
- Shiri, M., **Ebrahimi, L.** 2017. Evaluation of maize inbred lines resistance to ear rot disease and fumonisin accumulation in Moghan. Archives of Phytopathology and Plant Protection, 50: 197-212.
- Shiri, M., Rahjoo, V., **Ebrahimi, L.** 2017. Reaction of some sorghum varieties against grain mold and fumonisin accumulation. Journal of Plant Physiology & Breeding, 7: 91-97.
- Ebrahimi, L.,** Shiri, M., Dunphy, G. B. 2018. Effect of entomopathogenic nematode, *Steinernema feltiae*, on survival and plasma phenoloxidase activity of *Helicoverpa armigera* (Hb)(Lepidoptera: Noctuidae) in laboratory conditions. Egyptian Journal of Biological Pest Control, 28:12.
- Shiri, M., **Ebrahimi, L.** 2018. Comprehensive SAS code for computing several selection indices. Journal of crop improvement, 32: 225-238.
- Ebrahimi, L.,** Shiri, M. 2018. Effects of abamectin on two spotted spider mite and *Trichogramma brassicae* and efficacy of its residual effects applied on the bean plants. Acta Phytopathologica et Entomologica Hungarica, 53: 43-49.
- Ebrahimi, L.,** Tanhamaafi, Z., Sharifi, P. 2019. First report of the entomopathogenic nematode, *Steinernema carpocapsae* from Moghan region of Iran and its efficacy against the turnip moth, *Agrotis segetum* Denis and Schiffermuller (Lepidoptera: Noctuidae) larvae. Egyptian Journal of Biological Pest Control, 29:66.

Ebrahimi, L., Tanhamaafi, Z., et al., 2019. Study of the distribution and density of cereal cyst nematodes and potato cyst nematodes in the potato fields and cereal fields in rotation with potato in Ardabil province. *Plant Pathology Science*. In Press.

Conference papers:

Ebrahimi, L., Niknam, G., Eivazian, N., Nikdel M. 2008. Study on The Life Cycle of Two Entomopathogenic Nematodes, *Steinernema feltiae* and *Heterorhabditis bacteriophora* at Four Various Temperature Conditions. 18th Iranian Plant Protection Congress, Hamedan, Iran. P. 6.

Ebrahimi, L., Niknam, G., Nikdel M., Hasanpour, M. 2008. Study on the Response of Cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae) to Various Concentrations of Entomopathogenic Nematodes, *Steinernema feltiae* and *Heterorhabditis bacteriophora* under Laboratory Conditions. 18th Iranian Plant Protection Congress, Hamedan, Iran. P. 7.

Ebrahimi, L., Niknam, G., Dunphy, G.B. 2010. Innate immune responses of *Leptinotarsa decemlineata* and *Galleria mellonella* to the entomopathogenic nematodes, *Steinernema feltiae* and *Heterorhabditis bacteriophora* collected in Iran. 43rd Annual Meeting of the Society for Invertebrate Pathology, 11-15 JUL. Turkey.

Ebrahimi, L., Niknam, G., Lewis, E.E. 2010. Sublethal impacts of Iranian isolates of *S. feltiae* and *H. bacteriophora* on the Colorado potato beetle, *Leptinotarsa decemlineata*. 43rd Annual Meeting of the Society for Invertebrate Pathology, 11-15 JUL. Turkey.

Ebrahimi, L., Niknam, G., Nikdel M. and N. Eivazian Kari. 2010. Evaluation of pathogenicity of four endemic and four exotic (Irish) populations of entomopathogenic nematodes against bollworm, *Helicoverpa armigera* under laboratory conditions. 19th Iranian Plant Protection Congress, Tehran, Iran. P. 550.

Ghaffarpour, R., Niknam, G., **Ebrahimi, L.** 2010. *In vitro* study on the effect of two entomopathogenic nematodes on second stage juveniles and eggs of root knot nematode *Meloidogyne javanica*. 19th Iranian Plant Protection Congress, Tehran, Iran. P. 642.

Farshbaf Pourabad, R., Askari, G., **Ebrahimi, L.** 2011. Lethal and sublethal effects of three insect growth regulators, pyriproxyfen, cyromazine and methoprene on the Bollworm, *Helicoverpa armigera*. VIIth International conference on Arthropods. 18-23 SEP. Poland.

Ebrahimi L., Niknam G. and Askari Saryazdi G. 2012. The feasibility of biological control of the vegetable serpentine leafminer, *Liriomyza trifolii* (Diptera: Agromyzidae) by the entomopathogenic nematode, *Steinernema feltiae*. 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 64.

Ebrahimi L., Niknam G. 2012. Effect of entomopathogenic nematode, *Steinernema carpocapsae* on phenoloxidase and protease activity of hemolymph in *Galleria mellonella* (Lepidoptera: Pyralidae). 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 65.

- L. Ebrahimi**, G. Niknam. 2012. Three nematode species associated with elm bark beetle from Tabriz, East Azarbaijan province- Iran. 20th Iranian Plant Protection Congress, Shiraz, Iran. P. 62.
- L. Ebrahimi**, G. Niknam. 2012. Lethal and sublethal effects of *Steinernema carpocapsae* on Colorado potato beetle, *Leptinotarsa decemlineata*. 20th Iranian Plant Protection Congress, Shiraz, Iran. p. 63.
- Ebrahimi L.**, Niknam Gh., Toorchi M., Dunphy GB. 2014. Effect of an entomopathogenic nematode, *Steinernema carpocapsae* on hemocyte profile and phenoloxidase of the Colorado potato beetle, *Leptinotarsa decemlineata*. 21th Iranian Plant Protection Congress, Urmia, Iran. P.525.
- Ebrahimi L.**, Niknam Gh., Toorchi M., Dunphy GB. 2014. Two-dimensional electrophoresis pattern of Colorado potato beetle's hemolymph infected with entomopathogenic nematode, *Steinernema carpocapsae*. 21th Iranian Plant Protection Congress, Urmia, Iran. P.648.
- Niknam Gh., **Ebrahimi L.**, Dunphy GB.. 2014. Effect of entomopathogenic nematode, *Steinernema carpocapsae* on phenoloxidase activity of hemolymph of Colorado potato beetle (CPB). 21th Iranian Plant Protection Congress, Urmia, Iran. P. 649.
- Ebrahimi L.**, Golmohammad Zadeh Khiaban N., Sharifi Ziveh, Didehbaz G., Lotfalizadeh, H., Rashidi Y., Lee JW. 2015. Occurrence of wheat sawfly, *Dolerus puncticollis* (Tenthredinidae; Hymenoptera) on wheat and barley in Moghan and comparing its density on different cultivars. 1st Iranian International Congress of Entomology. Tehran, Iran. P. 102.
- Ebrahimi L.**, Didehbaz G., Sharifi Ziveh P., Askari-Saryazdi G., Sarkari S. 2015. Sensitivity of larvae of Wheat sawfly, *Dolerus puncticollis* (Tenthredinidae; Hymenoptera), a potential pest of wheat in Moghan, to indoxacarb. 1st Iranian International Congress of Entomology. Tehran, Iran. P. 491.
- Ebrahimi L.**, Karbalaie H., Sharifi Ziveh P., Golmohammad Zadeh Khiaban N., Didehbaz, G. 2015. Efficacy of an entomopathogenic nematode, *Steinernema carpocapsae* on larvae of wheat sawfly, *Dolerus puncticollis* (Tenthredinidae; Hymenoptera), a potential wheat pest in Moghan region (Iran). 1st Iranian International Congress of Entomology. Tehran, Iran. P. 188.
- Ebrahimi L.**, Shiri M., Rahjoo, V. 2016. Reaction of different Sorghum varieties against Grain Mold and Fumonisin Accumulation. 22th Iranian Plant Protection Congress, Karaj, Iran. P. 280.
- Ebrahimi L.**, Shiri M. 2016. Comparison of lethal effects of Abamectin (1.8% EC) and propargite (57% EC) on Moghan population of Two Spotted Spider Mite and persistence of their lethal effects on the bean plants. 22th Iranian Plant Protection Congress, Karaj, Iran. P. 743.
- Ebrahimi L.**, Shiri M. Dunphy GB. 2017. Effect of entomopathogenic nematode, *Steinernema feltiae* on survival and plasma phenoloxidase activity of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in laboratory conditions. 2nd Iranian International Congress of Entomology. Tehran, Iran.

Ebrahimi L., Tanhamaafi Z., Sharifi P. 2019. First report of *Steinernema carpocapsae* from Moghan region and its biocontrol potential against *Agrotis segetum* in laboratory condition. The 3rd Iranian International Congress of Entomology. Aug, 17-19. University of Tabriz. Tabriz. Iran.

Ebrahimi, L., Shiri, M., Badali, A., Sheikhi, A. 2019. Effect of planting date on the reaction of three maize cultivars to European corn borer in Moghan region. The 3rd Iranian International Congress of Entomology. Aug, 17-19. University of Tabriz. Tabriz. Iran.

Books

- Entomopathogenic bacteria as biocontrol agents for agricultural pests. 2017. Jihad-e-Daneshgahi (Ardabil Branch) Publication.