



## Curriculum Vitae

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**Department of Plant Nematology,  
Iranian Research Institute of Plant Protection, Agricultural  
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(AREEO), Tehran, Iran. (2004-Present)**

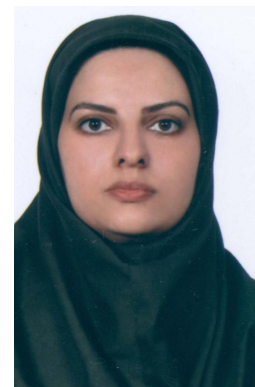
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### Academic qualifications

**PhD:** Plant pathology, Nematology, 2019, Tarbiat modarres University, Tehran, Iran.

**Title of thesis:** Taxonomy of the family Criconematidae in northern provinces of Iran and study of the tentative role of some species in fruit trees decline

**MSc:** Plant pathology, Nematology, 2003, Tarbiat modarres University, Tehran, Iran.

**Title of thesis:** Identification of nematode fauna (Tylenchida) of fruit trees in Jiroft region, Kerman province.

**BSc:** Plant protection, 1999, Shahid Bahonar University, Kerman, Iran.

## Research interests

Plant Pathology

Plant Protection

Biodiversity

Taxonomy

Morphology

Morphometrics

Molecular Phylogenetics

Phylogenetic Analysis

## Selected research projects

- The effect of various population levels of two species of root-knot nematodes (*Meloidogyne javanica*, *M. incognita*) on the growth of olive seedling.
- Evaluation of lines, current and native varieties of wheat to root lesion nematodes (*Pratylenchus neglectus*, *P. thornei*).
- Identification, population density and distribution of plant parasitic nematodes associated with stone fruit trees in Chaharmahal and Bakhtiary province.
- Identification, distribution and population density of plant parasitic nematodes on ornamental plants in Mazandaran province.
- Nematode biodiversity in important rangeland plants in Dena protected region.
- Determination of distribution and species identification of root knot nematode on barberry orchards in South Khorasan province.
- Determination of infestation of pomegranate orchards and nurseries to plant parasitic nematodes with an emphasis on root knot nematodes in Iran.
- Complementary study on possible biotic and abiotic agents of grape decline complex in Qazvin province.

- Effects of organic manure on root knot nematode populations in pomegranate and pistachios.
- Efficiency of nematicides Fluopyram in the management of root-knot nematode pomegranate orchards in Markazi province.
- Identify population dynamics and dissemination of important parasitic nematodes in sugar beet of sugar factory of Jovain industrial and agricultural company
- Determination of distribution and species identification of root knot nematode on pistachio orchards in South Khorasan Province
- Effect of mineral sulfur on the vegetative, reproductive and yield characteristics of pistachio trees and root-knot nematode activity in infected pistachio orchards, Rafsanjan
- Evaluation of pomegranate cultivars to root-knot nematode (*Meloidogyne* sp.)

## **Selected publications**

1. **Jahanshahi Afshar, F.** & Pourjam, E. (2003). Tylenchids associated with root palm in Kerman province. Proceedings of the 9th specialized palm congress of Bam-Iran.41-42.
2. **Jahanshahi Afshar, F.**, Pourjam, E. & Kheiri, A. (2004). The first recored of *Deladenus durus* and *Stictylus obtusus* from Iran. Proceedings of the 16th plant protection congress of Tabriz-Iran. 535.
3. Pourjam, E., **Jahanshahi Afshar, F.** & Kheiri, A. (2004). Tylenchs new for nematode fauna of Iran. Abstracts of 56th International Symposium on Crop Protection. May4 Ghent, Belgium: 168.
4. Pourjam, E., Karegar, A., Aliramaji, F. & **Jahanshahi Afshar, F.** (2005). Some tylenchids associated with pistachio and almond trees in Iran. IV

- International Symposium on Pistachio and Almond-ISHS-Tehran-Iran. 189-190.
5. **Jahanshahi Afshar, F.**, Afshari F., Tanha Maafi Z. and Nicol J. M. (2010). Evaluation of some lines and commercial wheat cultivars to root lesion nematode (*P. thornei*) under controlled conditions. Proceedings of the 19th plant protection congress of Tehran-Iran.
  6. **Jahanshahi Afshar, F.**, Tanha Maafi Z. and Pourjam, E. (2010). Culturing and reproduction of species *Helicotylenchus dihystera*, *in vitro*. Proceedings of the 19th plant protection congress of Tehran-Iran.
  7. Salehi, F., Pourjam, E., Taheri, A. and **Jahanshahi Afshar, F.** (2010) Tylenchids associated with some fields of medicinal plants in Tehran and Golestan Provinces. Proceedings of the 19th plant protection congress of Tehran-Iran.
  8. Pouzeshi Miab, B., Fani, S. R. and **Jahanshahi Afshar, F.** (2012). Study of tomato soil borne pathogens in Marand County. Proceedings of the 20th plant protection congress of Shiraz-Iran.
  9. Saeidi Naeini, F., Tanha Maafi Z. and **Jahanshahi Afshar, F.** (2012). Wheat reaction to various population levels of lesion nematodes (*Pratylenchus thornei* & *P. neglectus*) in Iran. Proceedings of the 31st International Symposium of the European Society of Nematologists. September 23-27 Adana, Turkey: 111.
  10. Ahmadi, A. and **Jahanshahi Afshar** (2014). Reaction of some bread and durum wheat lines/cultivars to root-lesion nematodes (*Pratylenchus thornei* & *P. neglectus*) under controlled conditions in Khozestan. Proceedings of the 21th plant protection congress of Urmia-Iran.
  11. Panahandeh, Y., Abolafia, J., Pourjam, E., Giblin-Davis, R. M., **Jahanshahi Afshar, F.**, Roshan-Bakhsh, A. & Pedram, M. (2018). Proposal for two new species of the genus of *Labrys* Qing & Birt, 2018 (Rhabditida: Tylenchidae). 33th Symposium of the European Society of Nematologists. 9-13th September, Ghent, Belgium: 403.

12. **Jahanshahi Afshar, F.**, Pourjam, E. and Kheiri, A. (2006). Tylenchids associated with trees in Jiroft gardens and Description of Four New Species for nematode fauna of Iran. *Iranian Journal of Agricultural Sciences*. 37: 529-543.
13. **Jahanshahi Afshar, F.** and Pourjam, E. (2011). Plant-Derived Enzyme Inhibitors and Lectins for Resistance against Plant-Parasitic Nematodes in Transgenic Crops. *Journal of Biosafety*. 4: 39-52
14. Fayazi, F., Farokhi Nejad, R., Ahmadi, A. R., Minasian, V., **Jahanshahi Afshar, F.** and Bahmani, Z. (2012). Reaction of some bread and durum wheat lines/cultivars to root-lesion nematodes (*Pratylenchus thornei* & *P. neglectus*) under controlled conditions in Southwest of Iran. *International Journal of Nematology*. 22: 73-80.
15. Hajihassani, A. Smiley, R. and **Jahanshahi Afshar, F.** (2013). Effects of Co-inoculation with *Pratylenchus thornei* and *Fusarium culmorum* on Growth and Yield of Winter Wheat. *Plant Diseases*, 97:1470-1477.
16. **Jahanshahi Afshar, F.**, Pourjam, E. and Kheiri, A. (2014). New Record of two species belonging to superfamily Sphaerularioidea (Nematoda: Tylenchida) from Iran. *Journal of crop protection*, 3, 1:59-67.
17. **Jahanshahi Afshar, F.**, Sasanelli, N., Hosseininejad, S. A. and Tanha Maafi Z. (2014). Effects of the root-knot nematodes *Meloidogyne incognita* and *M. javanica* on olive plants growth in glasshouse conditions. *Journal of Helminthologia*, 51, 1: 46 – 52.
18. Nourani, L., Mohamadi Gol Tapeh, E., Safaee, N., Jalali Javaran, M., Pourjam, E., **Jahanshahi Afshar, F.** and Shamsbakhsh, M. (2014). Effect of extracts of *Arthrobotrys oligospora* and *A. conoides* on second stage juveniles activity of *Meloidogyne incognita* and *M. javanica*. *Plant Protection*, 37, 2: 79-91.
19. M Behdani, **F Jahanshahi Afshar** and MR Mirzaee. (2017). First report of *Meloidogyne javanica* on *Berberis vulgaris* in Iran. *Pakistan Journal of Nematology*, 35 (2), 155-156.

20. Aliramaji, F., Pourjam, E., **Jahanshahi Afshar, F.**, Álvarez-Ortega, S., and Pedram, M. (2018). Description of *Aphelenchoides giblindavisi* n. sp. (Nematoda: Aphelenchoididae), and proposal for a new combination. *Journal of Nematology*, 437-452.
21. Panahandeh, Y., Abolafia, J., Pourjam, E., Giblin-Davis, R. M., **Jahanshahi Afshar, F.**, & Pedram, M. (2018). Morphological and molecular characterization of *Labrys filiformis* n. sp. (Rhabditida: Tylenchidae) from Iran. *Journal of Nematology*, 343-354.
22. **Jahanshahi Afshar, F.** (2019). The first molecular phylogenetic study of *Xiphinema robbinsi* Pedram, Niknam & Decraemer, 2008 (Nematoda: Longidoridae) based on specimens from the type locality. *Nematology*, 21(3), 333-335.
23. **Jahanshahi Afshar, F.**, Pourjam, E., & Pedram, M. (2019). New morphological observations on *Neolobocriconema serratum* (Khan & Siddiqi, 1963) Mehta & Raski, 1971 (Rhabditida: Criconematidae). *Nematology*, 21(4), 419-434.
24. **Jahanshahi Afshar, F.**, Pourjam, E., & Pedram, M. (2019). *Lobocriconema iranense* (Van den Berg, Eskandari, Tiedt & Karegar, 2010) n. comb. and description of *L. nokandense* n. sp. (Nematoda: Criconematidae) from Iran. *Nematology* 21 (2019) 1043-1061.
25. Panahandeh, Y., Reza Atighi, M., De Ley, I. T., Pourjam, E., Mundo-Ocampo, M., Abolafia, J., Koolivand, D., **Jahanshahi Afshar, F.** & Pedram, M. (2019). An integrative study of *Sakia sisanganensis* n. sp. (Rhabditida: Tylenchidae) from Sisangan forest, Iran, and new morphological observations for the genus. *Forest Pathology*, e12536.
26. Panahandeh, Y., Pourjam, E., Álvarez-Ortega, S., **Jahanshahi Afshar, F.**, & Pedram, M. (2019). New observations on *Miculenchus* Andrassy, 1959 (Nematoda: Tylenchidae) with descriptions of two new and one known species from Iran. *Nematology* 21 (2019) 937-956.

27. Mobasseri, M., **Jahanshahi Afshar, F.**, Pourjam, E., & Pedram, M. (2019). The first juvenile developmental stage separates *Paralongidorus iranicus* Pedram et al., 2012 (Nematoda: Longidoridae) from *P. litoralis* Palomares-Rius et al., 2008, its cryptic relative. *Nematology*, 21, 887-888.
28. **Jahanshahi Afshar, F.**, Shahryari, F., Gharibzadeh, F., Pourjam, E., & Pedram, M. (2019). Description of *Xiphinema azarbaijanense* n. sp. (Nematoda; Longidoridae) from West Azarbaijan province, northwestern Iran. *European Journal of Plant Pathology*, 155:417–434, <https://doi.org/10.1007/s10658-019-01776-1>
29. Mobasseri, M., Hutchinson, M. C., **Jahanshahi Afshar, F.** & Pedram, M. (2019). New evidence of nematode-endosymbiont bacteria coevolution based on one new and one known dagger nematode species of *Xiphinema americanum*-group (Nematoda, Longidoridae). *PloS one*, 14(6), e0217506.
30. Panahandeh, Y., Pourjam, E., Abolafia, J., Roshan-Bakhsh, A., Shideh Mojerlou, **Jahanshahi Afshar, F.** & Pedram, M. (2019). *Labrys khuzestanensis* n. sp. (Nematoda, Tylenchidae), a new member of the genus with large labial plate. *Zootaxa* 4671 (2): 267–276.
31. Gu, J., Pedram, M., Fang, Y., Li, H. & **Jahanshahi Afshar, F.** (2019). New data on a rare ektaphelenchid species, *Ektaphelenchus joyceae* Kaisa, Harman & Harman, 1995 (Rhabditida: Ektaphelenchinae) with its first molecular phylogenetic study. *Iranian Journal of Animal Biosystematics (IJAB)* Vol.15, No.1, 1-15. ISSN: 1735-434X; 2423-4222, DOI: 10.22067/ijab.v15i1.78816.
32. Aliramaji, F., Mirzaie Fouladvand, Z., Pourjam, E., Mortazavi, P., **Jahanshahi Afshar, F.**, Kanzaki, N., Giblin-Davis, R. M. & Pedram, M. (2019). A new species of *Basilaphelenchus* Pedram, Kanzaki, Giblin–Davis & Pourjam, 2018 (Aphelenchoidea: Tylaphelenchinae), from natural forests of Golestan province, northern Iran. *Nematology* 22 (2020) 361-371.

33. **Jahanshahi Afshar, F.**, Shahryari, F., Mokhtassi-Bidgoli, A., Castillo, P., Fouladvand, Z. M., & Pedram, M. 2020. Occurrence of *Xiphinema santos Lamberti*, Lemos, Agostinelli & D'Addabo 1993 (Nematoda: Longidoridae), a *X. americanum*-group member in Iran. *European Journal of Plant Pathology*
34. **Jahanshahi Afshar, F.**, Pourjam, E., Mokhtassi Bidgoli, A., & Pedram, M. (2020). Three new records of criconematids (Criconematidae: Criconematinae) from Iran. *Journal of Crop Protection*, 9(3), 355-366.
35. Aliramaji, F., Mirzaie Fouladvand, Z., Pourjam, E., Mortazavi, P., **Jahanshahi Afshar, F.**, Kanzaki, N., Giblin-Davis, R. M. & Pedram, M. (2020). A new species of *Basilaphelenchus* Pedram, Kanzaki, Giblin–Davis & Pourjam, 2018 (Aphelenchoidea: Tylaphelenchinae), from natural forests of Golestan province, northern Iran. *Nematology*, 22, 361–371.
36. **Jahanshahi Afshar, F.**, Mobasser, M., & Pedram, M. (2021). Description of *Xiphinema persicum* n. sp. (Nematoda: Longidoridae), a *X. americanum*-group species from Iran. *European Journal of Plant Pathology*.
37. **Jahanshahi Afshar, F.**, Pourjam, E., Mokhtassi Bidgoli, A., & Pedram, M. (2020). New records of Macroposthoniinae Skarbilovich, 1959 (Nematoda: Criconematidae) from Iran. *Journal of Crop Protection*, 10(2), 30-42.
38. **Jahanshahi Afshar, F.** (2020). *Oostenbrinkia pedrami* n. sp. (Dorylaimida: Aulolaimoididae) from Iran, with molecular phylogenetic relationships to some other Dorylaimida Pearse, 1942. *Journal of Nematology*, 52.
39. **Jahanshahi Afshar, F.**, Rashidifard, M., Abolafia, J., Zouhar, M., Fourie, H. & Pedram, M. (2021). *Laimaphelenchus africanus* n. sp. (Tylenchomorpha: Aphelenchoididae) from South Africa, a morphological and molecular phylogenetic study, with an update to the diagnostics of the genus. e2021-53.

40. Fadakar, S., **Jahanshahi Afshar, F.**, Pourjam, E. & Pedram, M. (2021). New data on species diversity of the genus *Trichodorus* Cobb, 1913 (Diphtherophorina, Trichodoridae) in Iran, with description of a new species. *European Journal of Plant Pathology*. <https://doi.org/10.1007/s10658-021-02410-9>.
41. Panahandeh, Y., Abolafia, J., Pourjam, E., Giblin-Davis, R. M., **Jahanshahi Afshar, F.**, Roshan-Bakhsh, A. & Pedram, M. 2018. Proposal for two new species of the genus of *Labrys* Qing & Birt, 2018 (Rhabditida: Tylenchidae). 33th Symposium of the European Society of Nematologists. 9-13<sup>th</sup> September, Ghent, Belgium: 403.
42. **Jahanshahi Afshar, F.**, Afzali M. and Zeynaddini Riseh, A. 2022. Ten populations of the genus *Hoplolaimus* Daday, 1905 species associated with date palm trees in the south of Kerman province. 7th International Congress of European Nematology, May 1-6 Antibes, France. Page 468.
43. Pedram, M. and **Jahanshahi Afshar, F.** 2022. An update to the phylogeny of Aphelenchoidea; Ektaphelenchinae, Seinurinae and Tylaphelenchinae, as case studies. 7th International Congress of European Nematology, May 1-6 Antibes, France. Page 97.
44. Pedram, M. and **Jahanshahi Afshar, F.** 2022. Proposal for a new *Xiphinema* Cobb, 1913 (Longidoridae) species from Iran belonging to the *X. americanum*-group. 7th International Congress of European Nematology, May 1-6 Antibes, France. Page 476.

**Thesis supervised:**

- **Salehi, F. 2008.** Identification of nematode fauna (Tylenchida) in some fields of medicinal plants in Tehran and Golestan Provinces. Gorgan University of Agricultural Sciences and Natural Resources. (MS.C)
- **Sharify, S. 2020** Taxonomic study of garden plants parasitic nematodes of the infraorder Tylenchomorpha in Rafsanjan city. Islamic Azad University Rafsanjan Branch (MS.C)
- **Salari, A . 2020.** Identification of plant parasitic nematodes associated with stone fruits in Sirjan city. Islamic Azad University Rafsanjan Branch (MS.C)

- **Afzali, M. 2021.** Identification of plant parasitic nematodes fauna date gardens and sesame fields in some areas of southern Kerman province. Vali-E-Asr University of Rafsanjan (MS.C)
- **Zaker, S. 2022.** Study of biodiversity of plant parasitic nematodes in some forest areas of Mazandaran province. University of Tehran (MS.C)