

Mohamamd Reza Atighi
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Deaprtment of Plant Pathology
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Education

Oct. 2003-Sep. 2007	Tabriz University, Iran Bachelor of plant protection
Sep. 2008-Sep. 2011	University of Tehran, Iran Master of Plant Pathology
Oct. 2015-Jun 2020	Ghent University, Belgium PhD of Bioscience engineering: Biotechnology

Employment

Sep. 2020-on going	Assistant Professor, Tarbiat Modares University
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Research interests

Plant epigenetics
Plant-microbe/nematode interactions
Control of plant parasitic nematodes/plant diseases
Plant genome editing

Teaching experience

Resistance to plant diseases (PhD), Tarbiat Modares University
Molecular methods in plant pathology (MSc), Tarbiat Modares University
Plant breeding for Biotic stresses resistance (PhD), Tarbiat Modares University
Genetics of pathogenicity in plant pathogens (PhD), Tarbiat Modares University
Plant-microorganisms interactions (MSc), Tarbiat Modares University

Thesis supervision during PhD, Ghent University, Belgium

Jonathan Smet (BSc, 2016)
Raquel Ancos Pintado (MSc, 2018)
Expedito Olimi (MSc, 2019)

Thesis supervision/co-supervision, Tarbiat Modares University

Khakbaz, Fatemeh (MSc, Co-supervisor)
Kazemi, Roya (MSc, advisor)
Amiri, Mohammad (MSc, advisor)
Monemi, Somayeh (MSc, advisor)
Azaryan, Ayub (MSc, co-supervisor)
Astraki, Sajjad (PhD, ongoing, advisor)
Azizi, Didar (MSc, ongoing, supervisor)
Kordi, Reihaneh (MSc, supervisor)
Khosravian, Zahra (MSc, advisor)
Esmaeili, Ensieh (MSc, ongoing, supervisor)
Molla-Mohammadi (MSc, ongoing, supervisor)
Amiri, Mohammad (PhD, ongoing, co-supervisor)
Pourehtesham, Niloofar (PhD, ongoing, co-supervisor)
Roshanroo, Mehran (PhD, ongoing, co-supervisor)

Research Publications

Kazemi, R., Saadati, M., Mokhtasi, A., Pedram, M., **Atighi, M. R.**, & Shams-bakhsh, M. Screening of sugar beet genotypes to beet curly top virus and sugar beet cyst nematode (*Heterodera schachtii*). *Journal of Agricultural Science and Technology*, 0-0.

Deveux, M., **Atighi, M. R.**, Stekelorum, L., & Kyndt, T. (2025). A novel qPCR-based screening method compatible with acid fuchsin staining reveals reduced susceptibility of SDG740 CRISPR mutant in rice against *Meloidogyne graminicola*. *Physiological and Molecular Plant Pathology*, 102635.

Fouladvand, Z. M., **Atighi, M. R.**, Pourjam, E., Pedram, M., & Peña-Santiago, R. (2025). Molecular characterisation of an Iranian population of *Lenonchium fimbricaudatum* Swart & Heyns, 1991 (Dorylaimida, Nordiidae) supporting the monophyly of the genus. *Nematology*, 1(aop), 1-7.

Esmaeili, M., Bonab, M. A., **Atighi, M. R.**, Bazeghi, F., Pedram, M., & Peña-Santiago, R. (2025). Morphological and molecular characterisation of *Aculonchus fumanensis* sp. nov. (Nematoda, Dorylaimida, Leptonchidae) from Iran, with a revised taxonomy of the genus. *Nematology*, 1(aop), 1-13.

Fouladvand, Z. M., **Atighi, M. R.**, Pourjam, E., Kanzaki, N., Giblin-Davis, R. M., & Pedram, M. (2025). *Pauronemoides lorestanensis* n. sp. (Tylenchomorpha, Paurodontidae), from the rhizosphere of grasses in Lorestan province, western Iran. *Nematology*, 1(aop), 1-10.

Astaraki, S., **Atighi, M. R.**, & Shams-Bakhsh, M. (2025). High-throughput sequencing revealed the symptomatic common bean (*Phaseolus vulgaris* L.) virome in Iran. *Scientific Reports*, 15(1), 1-14.

Rezaei, S., Pourjam, E., **Atighi, M. R.**, Kanzaki, N., Giblin-Davis, R. M., & Pedram, M. (2025). Description of *Deladenus hebetocaudatus* n. sp. (Rhabditida: Neotylenchidae) from northern Iran. *Nematology*, 1(aop), 1-9.

Bonab, M. A., **Atighi, M. R.**, Ghavamabad, R. G., & Pedram, M. (2025). First report of *Oscheius insectivorus* (Körner, 1954) Andrassy, 1976 (Nematoda: Rhabditidae) from Iran with its

efficacy against *Chrysomela populi* L.(Col.: Chrysomelidae) and *Galleria mellonella* L.(Lep.: Pyralidae). Journal of Helminthology, 99, e36.

Azaryan, A., **Atighi, M. R.**, & Shams-Bakhsh, M. (2024). Infection of tomato plants by tomato yellow leaf curl virus (TYLCV) potentiates the ethylene and salicylic acid pathways to fend off root-knot nematode (*Meloidogyne incognita*) parasitism. Plant Physiology and Biochemistry, 217, 109271.

Tale, F. S., Bazeghi, F., **Atighi, M. R.**, Amirzadi, N., Kanzaki, N., Giblin-Davis, R. M., & Pedram, M. (2024). Amendments to the diagnosis of *Ektaphelenchus cupressi* Golhasan et al., 2019 (Rhabditida: Ektaphelenchinae). Nematology, 26(8), 953-957.

Shahabi, I., Goltapeh, E. M., Amirmijani, A., Pedram, M., & **Atighi, M. R.** (2024). *Funneliformis mosseae* potentiates defense mechanisms of citrus rootstocks against citrus nematode, *Tylenchulus semipenetrans*. Tree Physiology, tpae097.

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Rezaei, S., Pourjam, E., **Atighi, M. R.**, & Pedram, M. (2024). Description of *Nothotylenchus savadkoohensis* n. sp. (Rhabditida, Anguinidae) from Iran based on morphological and molecular data. Journal of Nematology, 56(1).

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Keramat, M., Mahboubi, Z., **Atighi, M. R.**, Pourjam, E., Castillo, P., Pedram, M., & Peña-Santiago, R. (2024). Two new species of the genus *Sectonema* Thorne, 1930 (Nematoda,

Dorylaimida, Aporcelaimidae) from Iran, with new insights into its evolutionary relationships. *Journal of Helminthology*, 98, e32.

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Banihashemian, S. N., Jamali, S., Golmohammadi, M., Noorizadeh, S., & **Atighi, M. R.** (2023). Reaction of Commercial Cultivars of Kiwifruit to Infection by Root-knot Nematode and Its Biocontrol Using Endophytic Bacteria. *Journal of Nematology*, 55(1).

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Mahboubi, Z., Keramat, M., Pourjam, E., **Atighi, M. R.**, Clavero-Camacho, I., Abolafia, J., ... & Pedram, M. (2023). Morphological and Molecular Characterization of *Ottolenchus isfahanicus* n. sp. (Tylenchomorpha: Tylenchoidea) from Rhizosphere of Gramineous Plants in Isfahan Province, Iran. *Journal of Nematology*, 55(1).

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Monemi, S., **Atighi, M. R.**, Abolafia, J., Pourjam, E., & Pedram, M. (2022). Description of *Boleodorus bushehrensensis* n. sp. (Rhabditida: Tylenchidae) from Southern Iran, and Observations on a Commonly Known Species. *Journal of Nematology*, 54(1).

Khakbaz, F., Gharibzadeh, F., **Atighi, M. R.**, and Pedram, M (2021). Description of *Ditylenchus azarbaijanensis* n. sp. (Tylenchomorpha: Anguinidae) from West Azarbaijan province, northwest Iran. *J. Crop Prot.* 2021, 10 (3): 575-583

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Atighi, M. R., Verstraeten, B., De Meyer, T. and Kyndt, T. (2020). Genome-wide DNA hypomethylation shapes nematode pattern-triggered immunity in plants. *New Phytologist* 227(2): 545-558.

Panahandeh, Y. **Atighi, M. R.**, De Ley, I. T., Pourjam, E., Mundo-Ocampo, M., Abolafia, J., Koolivand, D., Jahanshahi Afshar, F. and 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* 2019: 49: e12536.

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Yaghoubi, A., Alvarez-Ortega, S., Liébanas, G., **Atighi, M. R.** and Pedram, M. (2016). *Discopersicus* n. gen., a new member of the family Tylenchidae Örley, 1880 with detailed SEM study on two known species of the genus *Discotylenchus* Siddiqi, 1980 (Nematoda; Tylenchidae) From Iran. *Journal of nematology* 48 (3): 214-221.

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Miraeiz, E., Heydari, R., Alvarez-Ortega, S., Pedram, M. and **Atighi, M. R.** (2015). Molecular and morphological characterization of *Veleshkinema iranicum* n. gen., n. sp. (Nematoda: Hexatyulina, Sphaerularioidea) from Iran. *Zootaxa* 4000 (5): 531-546.

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nematode fauna in north western Iran with the description of one new species. *Journal of Nematology* 47(2): 148-152.

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Ghaemi, R., Pourjam, E., Álvarez-Ortega, S., Pedram, M. and **Atighi, M. R.** (2015). A curious nematode, *Diploscapteroides persicus* n. sp. (Nematoda: Rhabditida: Rhabditomorpha), from Iran with a note on the status of the male genital papillae. *Nematology* 17(9): 1045-1056.

Pedram, M., Pourjam, E., Panahandeh, Y., Soleymanzadeh, M., **Atighi, M. R.**, Roshan-Bakhsh A. and Ehsani, A. (2015). Additional data on Iranian trichodorids (Triplonchida: Trichodoridae) and proposal for a new synonymy. *Nematology* 17(10): 1185-1191.

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Noruzi, E., Asghari, R., **Atighi, M. R.**, Eskandari, A., Cantalapiedra-Navarrete, C., Archidona-Yuste, A., Liébanas, G., Castillo, P. and Palomares-Rius, E. J. (2015). Description of *Rotylenchus urmiaensis* n. sp. (Nematoda: Hoplolaimidae) from North-western Iran with a molecular phylogeny of the genus. *Nematology* 17(5): 607-619.

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Esmaeili, M., Heydari, R., Pourjam, E. and **Atighi, M. R.** (2014). Description of *Ektaphelenchoides fuchsi* n. sp. (Nematoda: Ektaphelenchinae) from western Iran. Zootaxa 3846 (3): 430-438.

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Conference Presentations:

Conferences with oral presentation

Atighi, M. R., Verstraeten, B., De Meyer, T. and Kyndt, T. (2018). *Meloidogyne graminicola* induces DNA hypomethylation in rice. 33rd Symposium of the European Society of Nematologists. Ghent, Belgium.

Conferences with poster presentations

Verstraeten, B., **Atighi, M. R.**, De Meyer, T. and Kyndt, T. (2018). Investigating the role of miRNAs in the interaction between root-knot nematode and rice. *Meloidogyne graminicola* induces DNA hypomethylation in rice. 33rd Symposium of the European Society of Nematologists. Ghent, Belgium.

Kyndt, T., **Atighi, M. R.**, Verstraeten, B., Meijer, A., De Meyer, T. (2019). The role of epigenetics in the interaction between rice and parasitic nematodes. IS-MPMI XVIII Congress. Glasgow, Scotland.

Atighi, M. R., Verstraeten, B., De Meyer, T. and Kyndt, T. (2019). DNA hypomethylation confers enhanced immunity against parasitic nematodes in rice. IS-MPMI XVIII Congress. Glasgow, Scotland.

Verstraeten, B., **Atighi, M. R.**, De Meyer, T. and Kyndt, T. (2019). The role of ncRNAs in the interaction between root-knot nematode and rice. IS-MPMI XVIII Congress. Glasgow, Scotland.

M. R. Atighi, B. S. Ghods Alavi, M. Okhovvat, E. Pourjam, M. Ahmadzadeh and E. Mehdikhani Moghaddam. A new host for two species *Meloidogyne cruciani* and *Zygotylenchus Guevara*. 19th Iranian Plant Protection Congress. Aug., Tehran, Iran. Iranian Research Institute of Plant Protection, p. 590.

M. R. Atighi, M. Okhovvat and E. Pourjam. First record of genus *Discotylenchus* from Iran. 19th Iranian Plant Protection Congress. Aug., Tehran, Iran. Iranian Research Institute of Plant Protection, p. 591.

M. R. Atighi, M. Okhovvat and E. Pourjam. Some nematodes from Northern Khorasan province. 19th Iranian Plant Protection Congress. Aug., Tehran, Iran. Iranian Research Institute of Plant Protection, p. 592.

M. R. Atighi, M. Okhovvat and E. Pourjam. Some species of genus *Coslenchus* from Northern Khorasan. 19th Iranian Plant Protection Congress. Aug., Tehran, Iran. Iranian Research Institute of Plant Protection, p. 593.

Peer reviewing for Journals

Nematology, Brill

Journal of crop protection, Tarbiat Modares University

Iranian Journal of Animal Biosystematics, Ferdowsi University of Mashhad

Russian Journal of Nematology

Frontiers in Plant Science

Tropical Plant Pathology

References

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