CURRICULUM VITAE

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Education

PhD: 2014-2019- Plant Pathology, Plant Nematology, Islamic Azad University, Science and Research Branch, Tehran, Iran.

- Graduated Ph.D student, International Maize and Wheat Improvement Center (CIMMYT)

Title of Thesis: Evaluation of wheat genotypes reaction to cereal cyst nematode (*Heterodera filipjevi*) based on phenotypic characterization and association mapping.

MSc: 2008-2010-Plant Pathology, Nematology, Islamic Azad University, Damghan, Iran.

Title of Thesis: Study on morphological and molecular characteristics of some species of Pratylenchidae Thorne, 1949 in Iran.

BSc: 2003-2007-Plant Protection, Islamic Azad University, Varamin, Iran.

Work Experience

2008-present: Researcher

2020-present: Deputy of research and technology department

Skills

- Morphological, morphometrical and Molecular identification of plant parasitic nematodes
- Establishment of greenhouse and field experiments related to Plant parasitic nematodes
- Molecular: PCR, DNA based markers, RFLP, Phylogenetic analysis
- Association mapping analysis
- Statistical analysis
- Software: Phylogenetic analysis (MrBayes, PAUP, Mega, CLC, …), Association mapping analysis (Tassel, Structure), Statistical (Spss, SAS), Genetic Diversity (NTSYS), Corel,…

Awards and Honors

- Distinguished researcher award in Iranian Research Institute of Plant Protection (IRIPP), 2022.
- Distinguished researcher award in Iranian Research Institute of Plant Protection (IRIPP), 2017.
- Distinguished assistant researcher award in Iranian Research Institute of Plant Protection (IRIPP), 2015.
- Ranked first in Islamic Azad University, Science and Research Branch for PhD degree among all graduated PhD students of Plant Pathology, Plant Nematology in 2019.
- Ranked first in Islamic Azad University, Varamin Branch for BSc degree among all graduated BSc students of Plant Protection in 2007.

Research Interests

1) Disease Resistance, 2) Genome Wide Association Studies, 3) Association mapping, 4) Genetic Diversity Plant, 5) Identification of Plant Parasitic Nematodes, 6) Molecular Phylogeny and Phylogenetic analysis, 7) Plant Nematology, 8) Plant Pathology

Publications

Books

Kazemi, H., Masoumi, M., Momeni, H., Alizadeh, A., **Majd Taheri, Z** and Mahdavi, M. (2022). **Important wheat diseases in Iran.** Iranian Research Institute of Plant Protection. 290 pp.

Afshari Azad, H., Keyhanian, A. A., Mosavi, K., Tanha Maafi, Z., Shahraeen, N., **Majd Taheri, Z** and Peighami Ashnaei, S. (2021). **Soybean Plant Protection Handbook**. Iranian Research Institute of Plant Protection. 112 pp.

Journals Papers

Majd Taheri, Z., Tanha Maafi, Z., Nazari, K., Zaynali Nezhad, KH., Rakhshandehroo, F and Dababat, AA. (2023). Genome-wide association mapping revealed SNP alleles associated with cereal cyst nematode (*Heterodera filipjevi*) resistance in wheat**. Journal of Agricultural Science and Technology**. (Accepted)

Saeidi Naeini, F and **Majd Taheri, Z**. (2021). First report of root-lesion nematode, *Pratylenchus oleae* from pistachio in Iran. **Journal of Nematology**. 53: 1-7.

Majd Taheri, Z., Tanha Maafi, Z., Nazari, K., Zaynali Nezhad, KH., Rakhshandehroo, F and Dababat, AA. (2021). The influence of temperature on breaking of diapause and egg hatching in Cereal Cyst Nematode (*Heterodera filipjevi*). **Applied Entomology and Phytopathology.** 89(1): 117-123.

Hosseinvand, M., Eskandari, A., Abolafia, J., Karegar, A., Ghaderi, R., **Majd Taheri, Z** and Hajializadeh,P. (2021). *Ottolenchus sinipersici* n. sp. (Rhabditida: Tylenchidae) from the Persian Gulf mangrove forests, Iran. **Nematology**. 24(3): 241-255.

Majd Taheri, Z., Tanha Maafi, Z., Nazari, K., Zaynali Nezhad, KH., Rakhshandehroo, F and Dababat, AA. (2019). Combined study on genetic diversity of wheat genotypes using SNP marker and phenotypic reaction to *Heterodera filipjevi*. **Genetic Resources and Crop Evolution**. 66: 1791-1811.

Fatemy, S., Barooti, SH., Eshaghi, R., Pedram, M and **Majd taheri, Z.** (2017). A molecular phylogenetic study of two species of the genus *Heterodera* Schmidt, 1871 (Nematoda, Heteroderidae) from Iran. **International Journal of Nematology**. 27(1): 38-48.

Esmaeili, M., Heydari, R., **Majd Taheri, Z** and Fang, Y. (2016). Description of *Cryptaphelenchus iranicus* n. sp. (Nematoda: Ektaphelenchinae) recovered from bark samples of *Pinus nigra* from Iran. **Zootaxa**. 4139 (1): 117–127.

Tanha Maafi, Z., Subbotin, S.A., Sturhan, D., Barooti, S. and **Majd Taheri, Z**. (2015). Characterization of *Longidorous iranicus* Sturhan & Barooti, 1983 (Nematoda: Longidoridae) from Iran and synonymisation of *L. Moesicus* Lamberti, Choleva and Agostinelli, 1983. **Russian Journal of Nematology**. 23 (1): 21-28.

Tanha Maafi, Z and **Majd Taheri, Z**. (2015). First Report of Korean Cyst Nematode, *Heterodera koreana*, Parasitic on Bamboo, *Phyllostachys nigra*, from Iran. **Journal of Nematology**. 47(3): 167–168.

Majd Taheri, Z., Tanha Maafi, Z., Subbotin, S.A., Pourjam, E. and Eskandari, A. (2013). Molecular and phylogenetic studies on Pratylenchidae from Iran with additional data on *Pratylenchus delattrei*, *Pratylenchoides alkani* and two unknown species of *Hirschmanniella* and *Pratylenchus*. **Nematology**. 15: 633-651.

Tanha Maafi, Z., **Majd Taheri, Z** and Subbotin, S.A. (2013). First Report of the Giant Stem Nematode, *Ditylenchus gigas*, from Broad Bean in Iran. **Plant Disease**. 97(7): 1005.

Azad bakht, N., **Majd Taheri, Z** and Tanha Maafi, Z. (2013). First world report of the occurrence of root-knot nematode, *Meloidogyne javanica*, on true myrtus, *Myrtus communis* L. **Iranian Journal of Plant Pathology**. 49(3):125.

Conference Papers

Majd Taheri, Z., Ahmadi, A., Safaiefarahani, B., Tanha Maafi, Z., Momeni, H and Dababat, AA. (2022). Status of plant parasitic nematodes in some maize fields

in iran. **8th International Cereal Nematodes Symposium**. Abant, **Türkiye.** 433-435.

Karimipour Fard, H., **Majd Taheri, Z**., Tanha Maafi, Z and Dababat, AA. (2022). Study of wheat fileds in the southwest province, Iran, unfolds the spread of cereal cyst nematode in this region. **8th International Cereal Nematodes Symposium**. Abant, **Türkiye**. 159-162.

Saeidi Naeini, F., **Majd Taheri, Z**. and Farahbakhsh, M.H. (2022). The impact of plant and fungal based compounds as promising bionematicides on cereal cyst nematode, *Heterodera filipjevi* under in vitro and in vivo conditions. **8th International Cereal Nematodes Symposium**. Abant, **Türkiye.** 115-119.

Majd Taheri, Z., Tanha Maafi, Z., Nazari, K., Zaynali NeZhad, KH., Rakhshandehroo, F and Dababat, AA. (2019). Identification of QTLs associated with resistance to *Heterodera filipjevi* by association mapping in bread wheat landraces. **7th International Cereal Nematodes Symposium**. New Delhi. **India**. p. 64.

Majd Taheri, Z., Tanha Maafi, Z., Nazari, K., Zaynali nezhad, Kh., Rakhshandehroo, F and Dababat, A. A. (2019). Reaction of wheat genotypes to cereal cyst nematode, *Heterodera filipjevi*. **1st Iranian Congress of Nematology**. Tehran. **Iran**. p. 27.

Saeidi Naeini, F and **Majd Taheri, Z**. (2019). First report of root lesion nematode, *Pratylenchus oleae* from pistachio rhizosphere in Iran. **1st Iranian Congress of Nematology**. Tehran. **Iran**. p. 13.

Saeidi Naeini, F and **Majd Taheri, Z**. (2019). Effect of wood vinegar on the activity of some important plant parasitic nematodes. **1st Iranian Congress of Nematology**. Tehran. **Iran**. p. 22.

Majd Taheri, Z., Tanha Maafi, Z., Pourjam, E., Eskandari, A. and Subbotin, S.A. (2012). Molecular characterisation of some species of the Pratylenchidae family from Iran. **31st International Symposium of the European Society of Nematologists**. Adana, **Türkiye**. p.55.

Majd Taheri, Z., Heydari, R. and Tanha Maafi, Z. (2012). Maize as a new host for *Pratylenchoides ritteri* (Nematoda: Radopholinae). **20 th Iranian plant protection congress**, Shiraz, Iran.

Majd Taheri, Z., Tanha Maafi, Z., Pourjam, E. and Eskandari, A. (2010). Morphological and molecular identification of some species of Pratylenchidae in Iran. **19 th Iranian plant protection congress**, Tehran, **Iran**. p. 649.

Selected Research Projects

- Evaluation of the efficiency of Agro Health EC 70% (Wood vinegar+ Castor oil) for controlling root-knot nematode of greenhouse cucumber.
- Complementary evaluation of bread wheat genotypes to cereal cyst nematode (*Heterodera filipjevi*) based on phenotypic characterization and association mapping.
- Evaluation wheat genotypes to cereal cyst nematode (*Heterodera filipjevi*) based on phenotypic characterization and association mapping.
- Identification and determination of abundance of plant parasitic nematodes in maize fields in some provinces of Iran.
- The reaction of some Iranian wheat cultivars and CIMMYT wheat germplasms to cereal cyst nematode, *Heterodera filipjevi*.
- Distribution and identification of cereal cyst nematodes in Zanjan and Tehran Provinces.
- Study on reaction of some soybean cultivars and lines to soybean cyst nematode, *Heterodera glycines*
- Production of microcapsulated *Pochonia* formulation and its potential in controlling potato cyst nematode.
- Comparison of sporulation and survival of *Pochonia* biocontrol agent of nematodes on some solid formulations.
- Identification of plant parasitic nematodes in Tehran's Landscape.
- The efficiency of the nematicide Velum in controlling of the Potato Golden cyst Nematode (*Globodera rostochiensis*).
- Study on damage threshold level of potato cyst nematode *Globodera rostochiensis* on potato.

- Study on bioecology of *Globodera rostochiensis* on some commercial potato cultivars.
- Effect of nematicide Velum on population control of *Meloidogyne javanica* in tomato fields
- Effect of nematicide Velum on population control of *Meloidogyne javanica* in tomato fields.
- Efficacy of Fosthiazate G10 (Nemagol 100) for control of root-knot nematode *Meloidogyne* spp. in greenhouse tomato.
- Investigation on the controlling effectiveness of *Anamirta cucculuc* L. on *Meloidogyne incognita* under laboratory and tomato field conditions.