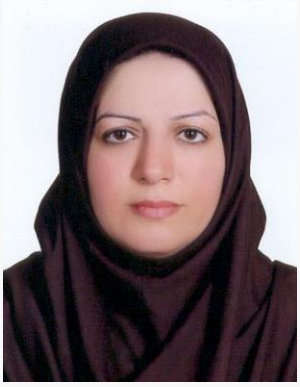
CURRICULUM VITAE



SIMA ZANGENEH (MSc)

Iranian Research Institute of Plant Protection (IRIPP)
Department of Botany
P.O. Box 1454, Tehran 19395, Iran
Tel: +98 (21) 22403012-16
Fax: +98 (21) 22403588
E-mail: simazangeneh@yahoo.com
URL: www.iripp.ir

Academic qualifications

MSc: Faculty of Biological Sciences, Group of Botany, Tarbiat Modarres University, Tehran. 1991-1995

BSc: Faculty of Biological Sciences, Kharazmi University, Tehran. 1984-1989

Research interests: Fungal (Glomeromycota, Entomophthoromycota, Mucoromycota) Taxonomy and Ecology.

Selected research projects:

1-Investigation of the needs of citrus rootstocks to (VAM) fungi in southern Iran. 1996-1999

2-The biology and epidemiology of walnut anthracnose disease in Iran. 1996-2000

3-Investigation on the population of mycorrhizal fungi in the roots and rhizosphere of healthy and infected cherry rootstocks with Phythophthora sp. and Verticillium sp. 1997-2000

4-Investigation on the Vesicular-Arbuscular Mycorrhiza in the Zn defficient Shahrecord potato fields. 1997-2001

5-Investigation on Entomophthorales fungi on the aphids of Rosaceous fruit trees and ornamental plants. 1999-2002

6-Identification of mycorrhizal fungi associated with citrus. 2001-2003

7-Collection and dentification of Entomophthoralean fungi (Zygomycetes) from Northern provinces of Iran. 2003-2007

8-Collection and identification of Mycobiota of Iran. 2003-2008

9-Taxonomic research on Iranian funga and flora. 2008-2009

10-Identification of Arbuscular Mycorrhizal Fungi associated with halophytic vegetation of Semnan Provinces. 2005-2009

11-Complementary study on Entomophthoralean fungi (Zygomycetes) in Northern provinces of Iran, with emphasize on important agricultural pests pathogens. 2008-2012

12-Collection and Identification of Arbuscular-Mycorrhizal fungi associated with Tamaricaceous plant with the aim of using them in desertification. 2012-2016

13-Collection and identification of Mycobiota of Iran (Ongoing). 2010-2015

14-Mycobiota of the lranian Research Institute of Plant Protection Campus (Ongoing). 2011-2014

15-Survey on arbuscular mycorrhizal fungi of sugarcane rhizosphere in selected fields of Khuzestan province in relation with sugarcane yield (Ongoing). 2013-2015

16- Survey on the fungal and bacterial flora of sugarcane rhizosphere in selected fields of Khuzestan province and their association with sugarcane yield

17- Survey on non-mycorrhizal fungi of sugarcane rhizosphere in selected fields of Khuzestan province and their association with sugarcane yield

18- National project on genetic resources of fungi and fungus-like organisms of Iran (Phase 1)

19- An investigation into the probable role of biotic plant pathogens on occurrence of pomegranate aril whitening in Southern Khorasan

20- Investigation of the effects of mycorrhizal fungi, *Trichoderma harzianum* and *Bacillus subtilis* on control of broomrape (*Orobanche aegyptiaca*) in tomato

Selected publications:

Journals papers:

1. SABER, M. and **ZANGENEH**, S. 2000. *Amanita strobiliformis*, a new record for Iran. Rostaniha 1: 164-168.
2. **ZANGENEH**, S. and BLASZKOWSKI, J. 2001. A report for three Arbuscular-Mycorrhizal fungi (AMF) from Iran. Rostaniha 2: 104-107.
3. **ZANGENEH**, S., SHIRVANI, A. B. ALIAN, Y.M. NAJAFI NIA, M. KARAMPUR F. and GHALE DEZDANI, H. 2005. Introduction of some new Arbuscular-Mycorrhizal fungi (AMF) from Citrus rhizosphere of Iran. Rostaniha, Vol. 6: 77-89.
4. GHAZAVI, M., S. **ZANGENEH**, and M. ABAII, 2005. New records of some entomopathogenic fungi from Iran. Rostaniha, Vol. 6: 119-129.
5. KARIMI, F., **ZANGENEH**, S. YOUSEFZADI, M. and ZARRE MAYVAN, H. 2006. Recognition of arbuscular - mycorrizal

fungi (AMF) and root colonization percentage in Kharturan biosphere reserve. Environmental sciences, 10: 83-88.

6. **ZANGENEH**, S., SHARIFNABI, B. and OLIA, M. 2007. New records of Mucorales from Iran. Rostaniha, Vol. 8 (1): 43-66.
7. **ZANGENEH**, S.and GHAZAVI, M. 2008. New records of Entomophthoralean fungi from Iran. Rostaniha 9(2): 190-203.
8. **ZANGENEH**, S. and ZARE. R. 2008. Gilbertella persicaria a new report of Mucorales from Iran. Rostaniha, Vol. 9(1): 111.
9. GHAZAVI, M., **ZANGENEH**, S., ZARE, R. and HYWEL-JONES, N. 2008. Batkoa apiculata, a new species of Entomophthorales for Iran. Rostaniha 9(1): 130-132.
10. KARIMI, S. VAHABI, KH. And **ZANGENEH**, S. 2008. Effects of allelochemicals in English walnut rhizosphere on genetic diversity of Glomus spp. by AFLP markers. Allelopathy Journal 22(2): 443-452.
11. ZARE, R. and **ZANGENEH**, S. 2008. First report of entomogenous fungus Gibellula leiopus (Vuill.) Mains from Iran . Applied Entomology and Phytopathology 76(1): 155–156 [English 44].
12. NAYYERI, S., **ZANGENEH**, S., SHARIFNABI, B. and NILI, N. 2009. Mycocladus corymbifer, a new species of Mucorales for Iran. Rostaniha, Vol. 10(1), 75-76.
13. **ZANGENEH**, S. and FARROKHI, SH. 2010. *Entomophthora syrphi*, a new species of Entomophthorales for Iran. Rostaniha 11(1): 105-106.
14. **ZANGENEH**, S. 2012. Investigation of the mycorrhizal status of some predominant plants in deserts of Semnan province (NE Iran). Rostaniha 13(1): 105-108.

15. **ZANGENEH**, S. 2014 *Neozygites microlophii*, a new report of Entomophthoralean fungi (*Entomophthoromicotina*). Rostaniha 15(1): 75-76.
16. KHRIEBA, M.I., GHAZAL, I. FAWAZ.AZMEH, M. CHOUMANE, V. **ZANGENEH**, S. 2014. Isolation and identification of root-fungi)Mycorrhiza(symbiotic with tomato in the Syrian coast. Tishreen University Journal for Research and Scientific Studies (In Press).
17. ROSTAMI HIR, S. RIAHI, H. & ZANGANEH, S. 2014. Identification of Mycorrhiza and Effect on the Growth Parameters Potato. ENVIRONMENTAL SCIENCES, 12(4): 75-80.
18. ZAND, A. RIAHI, H. SHARIATMADARI, Z. & **ZANGENEH**. S. 2015. Effect of Funneliformis mosseae mycorrihza symbiosis on growth and yield of Crocus sativus L. JOURNAL OF SAFFRON RESEARCH, 2:141-151.
19. MOHEBI-ANABAT, M., RIAHI, H., ZANGANEH, S. 2015. Investigation on Arbuscular Mycorrhizal Fungi (AMF) associated with Crocus sativus in Khorasan Razavi and Southern Khorasan provinces (north east of Iran). Rostaniha, 16(2): 200-205.
20. AHMADI T., BERNARD F., **ZANGENEH** S., and REJALI F. 2016. Identification of mycorrhizal fungi in the rhizospher of Thymus daenensis and mycorrhization of this species with Glomus intraradices in green house conditions. Journal of Plant Researches (Iranian Journal of Biology), 28(4): 674-906.
21. KHRIEBA, M.I. & **ZANGENEH** S. 2019. Isolation and Identification of Root-Fungi (Mycorrhizae) Genera that Symbiotic with Corn (Zea mays) Roots in the Syrian Coast. Syrian Journal of Agricultural Research, 6(1): 402-408.

22. KHRIEBA, M.I., SHARIFNABI, B. & **ZANGENEH**, S. 2019. Interaction between Arbuscular Mycorrhiza Fungi (AMF) with Verticillium dahliae Kleb. on Olive Tree under Greenhouse Conditions. World Research Journal of Agricultural Sciences, 6(3): 176-182.
23. **ZANGENEH, S.**, 2021. Introduction of some new species of genus *Acaulospora* from Iran. Rostaniha, 22(1), pp.67-74
24. ASEF, M.R., HATAMI, N. AND **ZANGENEH**, S., 2021. Phycomyces, a new genus for Iranian funga. Mycologia Iranica.
25. **ZANGENEH**, S., 2023. Glomus nanolumen, a new report from Iran. Rostaniha, 23(2), pp. 309-310
26. **ZANGENEH**, S., 2023. Some new species of arbuscular mycorrhizal fungi symbiotic with sugarcane from Iran. Rostaniha, 24(1), pp.78-87.
27. **ZANGENEH**, **S**., **MINBASHI**, **M**. & **TAHERKHANI**, **K**., 2024. Biodiversity of mycorrhizal fungi and evaluation of optimal conditions for their occurrence in soil to increase sugarcane yield. *Rostaniha*, 25(1), pp. 81-96.
28. **ZANGENEH**, **S**., 2025. Archaeospora undulata, a new species of arbuscular mycorrhizal fungi for Iran (In Press)

Tarviji:

1. **ZANGENEH**, S. and ZARE MAIVAN, H. 2003. Investigation on the Pine and Cypress Mycorrhiza in suburb parks of Tehran. Green Space 4: 68-73.
2. **ZANGENEH**, S., 2004. Fungi, friends for environment, enemy for insects. Green Space 5:
3. YEANG, K. and **ZANGENEH**, S. 2004. Ecological design. Abady, Vol. 42: 16-25.
4. MOHEBI-ANABAT, M., RIAHI, H., **ZANGANEH**, S. SADEGHNEZHAD, E. 2015.Effects of arbuscular mycorrhizal

inoculation on the growth, photosynthetic pigments and soluble sugar of Crocus sativus (saffron) in autoclaved soil. International Journal of Agronomy and Agricultural Research (IJAAR), 6(4): 296-304.

5. **ZANGENEH**, S. 2016. Arbuscular Mycorrhiza. Mushroom, 7:44-50.
6. YOUSEFI, Z., RIAHI H., KHABBAZ-JOLFAEI, H. and **ZANGANEH**, S. 2011. Effects of arbuscular mycorrhizal fungi against apple Powdery Mildew disease. Life Science Journal-Acta Zhengzhou University Overseas Edition, 8(4): 108-112.
7. **ZANGENEH**, S. 2017. Natural internet in soil. Mushroom, 9:46-51.
8. **ZANGENEH**, S. 2017. Fungi: The wicked enemies of insects. Mushroom, 10: 46-55.

Conference papers:

1. **ZANGENEH, S. and Zare Maivan, H. 1998. Investigation** on the pine and cypress Mycorrhiza in suburb parks of Tehran. Proceedings of 13th Iranian Plant Protection Congress, 23-27 Aug., Karaj, Iran, p. 265.
2. Blaskowski, J. and **ZANGENEH**, S. 2000. Arbuscular mycorrhizal fungi associated with cherry trees in Iran. Proceedings of 14th Iranian Plant Protection Congress, 5-8 Sept.Isfahan, Iran, p. 337.
3. ZANGENEH, S. and Yahya abady, M. 2001, Evaluation of vesicular – Arbuscular mycorrhizae(VAM) in safe and Zn defficient potato fields in Iran, Asian International Mycological Congress, 17-20 Sept., Karaj, Iran, p. 105.

4. Yahya Abady, M. and ZANGENEH, S. 2002, The effect of some microelements on mycorrhizal symbiosis in potato culture. Proceeding of 7th Iranian Crop Sciences Congress, 24-26 Aug. Karaj, Iran, p. 326
5. ZANGENEH, S., Mahmoody, M. & Tahery, A.E. 2002Introduction of two VA mycorrhizal fungi from cold-arid zones of Iran, Proceedings of 15th Iranian Plant Protection Congress, 7-11 Sept. Kermanshah, Iran, p. 168-169.
6. ZANGENEH, S. and Ghazavi, M.2004. Erynia bulata, a new report of Entomophthoralean fungi for Iran. Proceedings of 16th Iranian Plant Protection Congress, 28 Aug.-1 sept. Tabriz, Iran, p. 469.
7. ZANGENEH. S. Sharifnabi, B. and Olia, M. 2004, Two new Zygomycetous fungi from Iran. Proceedings of 16th Iranian Plant Protection Congress, 28 Aug.-1 Sept. Tabriz, Iran, p. 470.
8. ZANGENEH, S., Shirvani, A.B., Alian, Y.M., Najafinia, M., Karampoor, F. and Ghaledezdani, H. 2004, Introducing some new arbuscular-mycorrhizal fungi from Iran. Proceedings of 16th Iranian Plant Protection Congress, 28 Aug.-1 sept. Tabriz, Iran, p. 471.
9. Saber, M. and ZANGENEH, S. 2004. New record of Macromycetes from Iran. Proceedings of 16th Iranian Plant Protection Congress, 28 Aug.-1 sept. Tabriz, Iran, p. 463.
10. ZANGENEH, S., Shirvani, A.B., Alian, Y.M., Najafinia, M., Karampoor, F. 2004. Occurrence and distribution of mycorrhizal fungi in citrus orchards of Iran. Proceedings of

The IV Acia-Pacific Mycological Congress, 14-19 Nov. Chiang Mai Thailand, p. 122.

11. ZANGENEH, S. 2006. Erynia dipterigena a new species of Entomophthorales from Iran. Proceedings of 17th Iranian Plant Protection Congress,2-5 Sept. Tehran, Iran, p. 439.
12. ZANGENEH. S. Sharifnabi, B. and Olia, M. 2006. New records of Mucorales from Iran. Proceedings of 17th Iranian Plant Protection Congress,2-5 Sept. Tehran, Iran, p. 440.
13. ZANGENEH, S. and Zare, R. A new species of Rhizopus from Iran. 2006. Proceedings of 8th International Mycological Congress, 21-25 Aug. Cairns, Australia. p. 62.
14. Ghazavi, M., ZANGENEH, S., Hywel-Jones, N. and Zare, R. 2008 Batkoa apiculata, a new species of Entomophthorales for Iran. Proceedings of 18th Iranian Plant Protection Congress, 24-27 Aug. Hamedan, Iran, p. 668.
15. ZANGENEH. S. 2008. Introduction of some new Entomophthoralean fungi from Iran. Proceedings of 18th Iranian Plant Protection Congress, 24-27 Aug. Hamedan, Iran, p. 637.
16. Khreibeh, I., Sharifnabi, B. and ZANGENEH, S. 2010. Introduction of some Arbuscular Mycorrhizal fungi (AMF) of olive plantation in Gilan Province. Proceedings of 19th Iranian Plant Protection Congress, 31 July -3 Aug. Tehran, Iran, p. 86.
17. Mohebi Enabat, M., ZANGENEH, S. and Riahy, H. 2010. Investigation of Arbuscular Mycorrhiza (AM) associated with saffron. Proceedings of 19th Iranian Plant Protection Congress, 31 July -3 Aug. Tehran, Iran, p. 171.

18. ZANGENEH. S. 2012. A review to the AMF taxonomy studies in Iran. Proceedings of 20th Iranian Plant Protection Congress, 26-29 Aug. Shiraz, Iran, p. 373.
19. Motiee, M., ZANGENEH, S. Baba Khani, B. Asadi, M. and Gol Mohammadi, M. 2012. Proceedings of 20th Iranian Plant Protection Congress, 26-29 Aug. Shiraz, Iran, p. 174
20. Riahi, H., Zand, A., Shariatmadari, Z., ZANGENEH, S.,and Ahmadi, A. 2013.A. Effect of mycorrihza as a biofertilizer on a medicinal plant, Crocus sativus L. 1st Iranian Mycological Congress, 3-5 September, Rasht, Iran, p. 200.
21. ZANGENEH, S. Nafiseh, S. and Noormohammadi, A. 2013. Investigation of mycorrhizal colonization status in some Tamarix species in Semnan province. 1st Iranian Mycological Congress, 3-5 September, Rasht, Iran, p. 204.
22. Zand, A., Riahi, H., Shariatmadari, Z., ZANGENEH, S.,and Ahmadi, A. 2013. Effect of micro algae and mycorrihza as a biofertilizer for medicinal plant ,Crocus sativus L. 8th national Biotechnology Congress of Iran and the 4th congress on Biosafety and Genetic Engineering
23. Modarresi, Z., ZANGENEH, S. & Riahi, H. 2014. A report of Arbuscular mycorrhizal fungi associated with Tanacetum parthenium in Qamsar, Proceedings of 21st Iranian Plant Protection Congress, 23-26 August, Urmia, Iran, p. 887.
24. ZANGENEH, S. Modarresi, Z. 2015. Identification of Mycorrhizal Fungi associated with Tanacetum parthenium. 1st National congress of Herbs and Herbal Medicine, 28 May, Shahid Beheshti University, Tehran. Iran.

25. ZANGENEH, S. 2015. A report of some new Arbuscular Mycorrhizal fungal species from Iran.2nd Iranian Mycological Congress: 23-25 August, Karaj, Iran.
26. SHIRZAD, H., ZANGENEH, S., SALARI, M. AND SAJADI, M. 2016. Collection and identification of ArbuscularMycorrhizal Fungi associated with wheat plant in Sistan& Baluchistan province. 22nd Iranian Plant Protection congress, 27-30 August 2016, College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran.
27. ZANGENEH, S. 2017. Acaulospora herrea a new species for mycorrhizal fungal flora of Iran. The 1st national conference of botany and its relationship with other sciences, 12 September, Tehran Iran.
28. ZANGENEH, S., Taherkhani, K., Zare, R. and Asgari, B. 2018. Introduction of some new species of Mycorrhizal fungi for Iran. 23rd Iranian Plant Protection Congress, 27-30 Aug. 2018, GUASNR, Gorgan, IRAN.
29. B. Asgari, R. Zare1, K. Taherkhani, M. Bakhshi, A. Javadi, ZANGENEH, S. and H. Moazen. 2019. Biodiversity of non-mycorrhizal fungi of sugarcane rhizosphere in selected fields of Khuzestan province, 4thIranian Mycological Congress, 26-28 August 2019, Sari Agricultural Sciences and Natural Resources University, Iran.
30. Mohammadi Bid, Z, Mohammadi, A, ZANGENEH, S. 2021. Identification of Arbuscular Mycorrhizal Fungi Associated with Artemisia Sieberi in Khusf Plain, The 1st International and the 8th National Conference on Rangeland Management in Iran. 14-15 July, 2021, Ferdowsi University of Mashhad, Mashhad, Iran,.

Theses supervised:

1. Bu-Ali-Sina University (Faculty of Agriculture), Hamedan, Iran. S. Karimi (MSc thesis). Title: "Contribution to Knowledge of *Trichoderma* Species and Endomycorrhizae as Beneficial Fungi of Walnut Rhizosphere in Hamedan province". Completed:October 2005
2. Isfahan University of Technology, Department of Plant Protection, Isfahan , Iran. M.I. Khreibeh (MSc thesis). Title: "Identification of Olive Endomycorrhizal Fungi (VAM) and Interaction with verticillium wilt in two major olive cultivars". Completed: Dec. 2010
3. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. M. Mohebi (MSc thesis). Title: "Study of Mycorrhiza associated with Saffron". Completed: Jan. 2011.
4. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. T. Ahmadi (MSc thesis). Title: "Mycorrhization plantlets of *Thymus daenensis* with *Glomus intraradices* in vitro and vivo conditions
5. Islamic Free University (Faculty of Science & Research), Tonekabon, Iran. Motiee (MSc thesis). Title: " Effect of Rhizosphere bacterial and Mycorrhiza fungi on germination root, plant growth and activity of physiology Kiwi fruit in green house. Completed Aug. 2011.
6. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. S. Rostami (MSc thesis). Title: "Identification and effect of mycorrhiza in production potato tubers." Completed Sep. 2011.
7. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. Z. Yousefi (MSc thesis). Title: "Isolation, identification and generation of arbuscular mycorrhizal fungi from the apple seedling soil its effect on apple powdery mildew control disease. Completed Sep 2011.
8. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. A. Zand (MSc thesis). Title: "Effect of micro algae and mycorrhiza as a biofertilizer for medicinal plant, Corcus sativus L. completed Sep. 2013.
9. Shahid Beheshti University, Faculty of Biosciences, Tehran, Iran. Z. Moddaresi, (MSc thesis). Title: "Biosystematic study of the complex species of *Tanacetum parthenium* based on molecular evidence (SSR) and micromorphology and study of mycorrhizal fungal effect on plant essential oil.

10. University of Birjand, Agriculture Department, Birjand, Iran. Z. Moradi Moghaddam (MSc thesis). Title: "Identification of Arbuscular Mycorrihzal fungi symbiotic alfalfa roots in North Khorasan Province. Jun 2020.
11. University of Birjand, Agriculture Department, Birjand, Iran. Z. Mohammadi Bid (MSc thesis). Title: "Identification of Arbuscular mycorrhizal fungi associated with some rangeland plants in Khusf zone". September 2022.

Book:

- Ershad D, Asef MR, Bakhshi M, Javadi A, ZANGENEH S, Asgari B, Aliabadi F, Mehrabi M. 2018. Genera of Fungi and Fungal Analogues of Iran. Ministry of Jihad-e-Agriculture. Agricultural Research, Education and Extension Organization, Tehran, Iran. (in Persian)

- ZANGENEH, S and Ghazavi, M. 2024. Guide to the diagnosis of insect diseases and initial identification of the causative agent. Ministry of Jihad-e-Agriculture. Agricultural Research, Education and Extension Organization, Tehran, Iran. (in Persian)