



Curriculum Vita of Zahra Mirsoleymani

Zahra Mirsoleymani

Assistant Professor of Mycology (Plant pathology)

Department of Plant Protection

College of Agriculture

Shahid Chamran University of Ahvaz (SCU)

Ahvaz, Iran

Postcode: 61357-43311

E-mail address : z.mirsoleimani@scu.ac.ir/zmirsoleymani1@gmail.com

Research gate:<https://www.researchgate.net/profile/Zahra-Mirsoleymani>

Google scholar:<https://scholar.google.com/citations?user=jgHR8pgAAAAJ&hl=en>

Scopus ID: 55743569100

Scopus ID: 58036359700

Web of Science ResearcherID AHA-6523-2022

ORCID <https://orcid.org/0000-0001-5092-2730>

EDUCATION AND QUALIFICATIONS

2021-2025

Assistant Professor of Mycology (Plant pathology)

Department of Plant Protection

College of Agriculture

Shahid Chamran University of Ahvaz (SCU)

2012-2019

Ph. D. of Plant Pathology (Mycology)

School of Agriculture, Shiraz University, Iran

Courses taken: Advanced Mycology II, Advanced Practical Mycology, Genetics of Plant Pathogens, Biotechnology in Plant Pathology, Advanced Virology, Disease Resistance in Plants, Advanced Plant Disease Management (Epidemiology of Plant Diseases)

Dissertation title: Phylogenetic Relationships, Taxonomic Position and Genetic Diversity of *Phytophthora parsiana* Complex Lineages

2016-2017



Visiting researcher

Hampton Roads Agricultural Research and Extension Center,
Virginia Tech
Virginia Beach, VA, USA

2008-2011

MSc. of Plant Pathology (Mycology)

School of Agriculture, Shiraz University, Iran

Courses taken: Advanced Mycology I, Virology, Plant Pathogenic Prokaryotes, Nematology, Laboratory Methods in Plant Pathology, Plant Disease Management, Physiology of Parasitism, Bioecology of Soil Born Plant Pathogens, Bioinformatics

Thesis title: Study on host range and molecular detection of *Phytophthora pistaciae* isolates from pistachio orchards of Kerman province

2004-2008

BSc. Plant Protection

School of Agriculture, Shiraz University, Iran

Main courses taken: Botany, Plant taxonomy, Plant Physiology, Chemistry, Biochemistry, Genetics, Statistics, Soil Science, Agronomy, Horticulture, Plants Breeding, Entomology, Mycology, General and Advanced Plant Pathology, Plant Disease and Pests Management.

HONORS AND AWARDS

2008 **Top BSc. graduate** (BSc. in Plant Protection)

2011 **Top MSc. graduate** (MSc. in plant pathology)

2009-2011 Membership in the Brilliants Talented office, Shiraz University

2013 Scholarship of Shahid Chamran University (SCU) of Ahvaz in Ph. D., Iran

2012- 2019 **Top Ph. D. graduate** (Ph. D. in Plant Pathology-Mycology)

2016-2017 Sabbatical from Iranian ministry of science for young PhD students.
Virginia Tech, USA.

TEACHING AND TRAINING EXPERIENCE:

2008-2011 Teacher assistance, Shiraz University, Iran

2012-2014 Teacher assistance, Shiraz University, Iran



2019-2021 lecturer, Shahid Chamran University (SCU) of Ahvaz

2021-.... Assistant professor, Shahid Chamran University (SCU) of Ahvaz

INTERESTS AND RESEARCH FIELDS

Plant pathology

Mycology

Molecular Plant pathology

Fungal molecular population genetic

Oomycete pathogens in molecular plant pathology

Phylogenetic Analysis and Classification in Fungi

Soil born pathogen

Workshops attended:

2009 *Trichoderma*, challenges for identification, Shiraz University, Iran

2011 Mastering academic writing, Shiraz University, Iran

2010 Application of Microsoft word 2007 in scientific paper, Shiraz University, Iran

2010 Identification of *Pythium* spp., Shiraz University, Iran

2010 Identification of *Fusarium* spp., Shiraz University, Iran

2011 Electronic management of projects in Agriculture, Shiraz University, Iran

2013 Digital scientific photography (photomicrography and macro photography in laboratory), Shiraz University, Iran

2012 Research Methods in Biological Science, Shiraz University, Iran

2013 Scientific book translation, Shiraz University, Iran

2013 Scientific Digital Photography, Shiraz University, Iran

2013 Research Proposal Writing, Shiraz University, Iran

2016 Overview of NIH Guidelines and VT IBC. Including the roles and responsibilities of utilizing recombinant and synthetic nucleic acid molecules in teaching and research at Virginia Tech, USA

2016 Training Completion (safe autoclave use and verifications), Virginia Tech Environmental Health & Safety, USA

2016 Introduction to the R for Statistical analysis, Virginia Tech, USA

2017 Microbiome data analysis, Shiraz University, Iran

2018 Geneious: fundamentals and applications, Shiraz University, Iran

2018 MEGA 7: fundamentals and applications, Shiraz University, Iran

2018 Molecular data analysis using R, Shiraz University, Iran.

2018 RNA-seq data analysis, Shiraz University, Iran.

2022 Bioinformatics' online school, Shiraz University, Iran.



2023 ClCMicrobila Genomics module, Shiraz University, Iran.
2023 Applications of long noncoding RNAs

OTHER SKILLS

Computing:

Operating system: Windows

Word processing: Microsoft Word

Internet Browser: Microsoft Internet Explorer

Other software: Microsoft Excel, Microsoft Power Point,

Microsoft Project and Bioinformatics Software

SAS, SPSS, R

Language:

English (reading, conversation and writing)

CEFR= C1

TOFEL iBT=95

IELTS=7

Scientific Translation (English to Farsi)

Photography:

Macrophotography and Photomicrography

PUBLICATIONS & PRESENTATION IN CONFERENCES

Porameri Z, Ghorbani A, **Mirsoleymani Z**, Karimi M, Rostami M, Hemmati S.A. 2025. Key regulatory genes in sugar beet's defense against curly top virus identified by network analysis and qRT-PCR. *Biochemistry and Biophysics Reports*.43:102214

Helalipour E, Zivdar Sh, Rahmati Jonidabad M, **Mirsoleymani Z**, Taki M. 2025. Effect of extract and nano extract of Bottle brush (*Callistemon citrinus* (Curtis) Skeels) and Denak (*Oliveria decumbens* Vent) on the control of citrus green mold (*Penicillium* ...*Plant Protection (Scientific Journal of Agriculture)*.48:2, 75-95.

Mazrae Asl S., Bahmani Z., **Mirsoleymani Z**. Artificial intelligence is a novel tool for identifying and managing plant pathogens. January. 2025. international conference of intelligence and its applications in agriculture. Khuzastan. Ahvaz. Iran.



Saki M., Mozaffari Godarzi Y., **Mirsoleymani Z.** Mechanism of cytokinin plant hormone in fungi. 2025. The 3rd International and 4th National Conference on Agriculture, Environment and Food Security. Kerman. Jiroft. Iran.

Mozaffari Godarzi Y., **Mirsoleymani Z.** Bahmani Z. The Impact of Soil Fungal Biodiversity on Soil Ecosystem Functioning and Health. 2025. The 3rd International and 4th National Conference on Agriculture, Environment and Food Security. The 3rd International and 4th National Conference on Agriculture, Environment and Food Security. Kerman. Jiroft. Iran.

Mozaffari Godarzi Y., saki M., **Mirsoleymani Z.** Bahmani. The Role of Metabarcoding in the Detection of Biological Contaminants and Its Implications for Global Food Security. 2025. The 3rd International and 4th National Conference on Agriculture, Environment and Food Security. Kerman. Jiroft. Iran.

Mirsoleymani Z., Esmailie s., First report of *Phytophthora helicoides* associated with Indian shot in Khuzestan Province of Iran. 2024. The 6th National & International Congress on Flower & Ornamental Plants. Ardebil. Iran. 999-1000.

Mirsoleymani Z. First report of *Phytophthora megacarpum* associated with root and crown rot of umbrella papyrus in Khuzestan Province of Iran. 2024. The 6th National & International Congress on Flower & Ornamental Plants. Ardebil. Iran.

Saki M., **Mirsoleymani Z.** 2024. Application of new Small RNA- based approaches in plant diseases control. Journal of biosafety. 16:4, 1-16.

Mirsoleymani Z., Bahmani Z. 2024. The role of fungi in the bioremediation of pollutants. Journal of biosafety. 16:2,17-30.

Mirsoleymani Z., Mostowfizadeh-Ghalefarsa R., Yang X., and Hong C. 2025. Redesigning *Phytophthora* taxon Walnut as *P. brasierii* sp. nov. European Journal of Plant Pathology. Under review.

Ahmadpour SA., Mehrabi-Koushki M., Farokhinejad R., & **Mirsoleymani Z.** 2023. Characterization and pathogenicity of *Neoscytalidium novaehollandiae* causing dieback and sooty canker in Iran. Tropical Plant Pathology, 48, 493–507.

Tabein S., Ghorbani A., **Mirsoleymani Z.**, Lotfipour M., Matić S., Noris E. Molecular characterization, gene expression profile, and population polymorphism



of cotton leaf curl Alabad virus infecting Chinese hibiscus (*Hibiscus rosa-sinensis* L.) in Iran. 2025. Journal of Plant Pathology. Under review.

Favazeli N., **Mirsoleymani Z.** 2024. New biotechnological approaches in management of destructive oomycete diseases. Proceeding of The 9th National Conference on Environmental Engineering and Natural Resource. Tehran. Iran.15PP.

Favazeli N., Saki M., **Mirsoleymani Z.** 2024 The potential of fungi and fungal toxins as biological weapons. Proceeding of the 1st National Conference on Biodefense Against Bioterrorism Threats. Lorestan. Iran.12PP.

Mirsoleymani Z., Bahmani Z. 2024. (February 14). Nanotechnology applications in reducing the use of chemical poisons based on environmental protection. Proceeding of 1st National Conference on Environmental Science and Engineering in Future Development. Ahvaz. Iran.8PP.

Saki S., Aghaiee N., favazeli N., **Mirsoleymani Z.**, 2024. (February 1). New perspectives and application of CRISPR/cas9 system in plant disease management. Proceeding of the 7th international Conference on The New Horizons in Science and Agricultural Engineering (With Water, Soil and Air Approach). Tehran. Iran. 15PP.

Favazeli N., **Mirsoleymani Z.**, 2024. (February 1). Interaction between fungi, fungi-like and heavy metals in natural ecosystems. Proceeding of the 7th international Conference on The New Horizons in Science and Agricultural Engineering (With Water, Soil and Air Approach). Tehran. Iran. 13PP.

Saki M., Favazeli N., **Mirsoleymani Z.**, Bahmani Z. 2024. Impact of climate change on plant pathogens and food security: perspectives and challenges. Proceeding of the 1st National Conference on Environmental Science and Engineering in Future Development. Ahvaz. Iran. 10PP.

Tabein, S.; Ghorbani, A.; **Mirsoleymani, Z.**; Lotfipour, M. 2023. Unraveling the genome and gene expression of Hibiscus chlorotic ringspot virus isolated from Hibiscus rosa-sinensis in Southwest Iran. Gene Reports. DOI: [10.1002/ndr2.12141](https://doi.org/10.1002/ndr2.12141).

Mirsoleymani Z., Mostowfizadeh-Ghalamfarsa R. 2023a. (May 4). Population genetics of fungal effectors involved in gene-for-gene interactions. Proceeding of The 5th National Conference on Sustainable Development in Agricultural, Natural Resources and Environment of Iran. Tehran.7PP.

Mirsoleymani Z., 2023 (May 4). Application of Single-Feature Polymorphisms in microarray technology and its role in genomic studies. Proceeding of The 5th National Conference on Sustainable Development in Agricultural, Natural Resources and Environment of Iran. Tehran.6PP.

Mirsoleymani Z., 2023 (May 4). The technology of yeast two and three-hybrid systems and its applications. Proceeding of The 5th National Conference on Sustainable Development in Agricultural, Natural Resources and Environment of Iran. Tehran.11PP.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R. 2023b. (January 19). Comparative genomics perspective in plant pathogenic Fungi and oomycete. Proceeding of 6th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran, Iran, Tabriz. 6PP.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R. 2023c. (January 19). Quorum sensing system applications in fungal pathogens. Proceeding of 6th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran, Iran, Tabriz. 6PP.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R. 2023d. (January 19). DNA barcoding in fungi: new opportunities for identification and taxonomy. Proceeding of 6th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran, Iran, Tabriz. 5PP.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R. 2022a. *Alternaria* species associated with medicinal plants in Fars Province of Iran. Proceeding of the 24th Iranian Plant Protection Congress, Tehran, Iran:902-903.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R. 2022b. First report of *Phytophthora megacarpum* from Pistachio orchards of Iran. Proceeding of the 24th Iranian Plant Protection Congress, Tehran, Iran:630-631.

Tabein, S., **Mirsoleymani, Z.**, & Ghorbani, A. 2022. First report of Cotton leaf curl Alabad virus and the Cotton leaf curl Multan virus and Cotton leaf curl Multan betasatellite complex in *Hibiscus rosa-sinensis* in Iran. New Disease Reports, 46(2), e12141.



Mirsoleymani Z., Yang, X., Hong, C., and Mostowfizadeh-Ghalemfarsa R. 2019 A revision of *Phytophthora parsiana* complex. Proceeding of the Australasian Plant Pathology Society Conference. Melbourne, Australia: 226.

Mirsoleymani Z., Reza Mostowfizadeh-Ghalemfarsa ,*Fomitiporia mediterranea* a new basidiomycete species for mycobiota of Iran , rostaniha ,vol. 0 ,2018 ,pp. 189-191.

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R., .2019. A revision of *Phytophthora parsiana* isolates based on single-strand-conformation polymorphism of ribosomal DNA. Iranian Journal of Plant Pathology. 54(4) -(317-335).

Mirsoleymani Z., and Mostowfizadeh-Ghalemfarsa R., .2019. Faba bean seedling, a selective host to discriminate *Phytophthora pistaciae*, the causal agent of pistachio gummosis, from other *Phytophthora* spp. Proceeding of the 1st Iranian Plant Pathology Congress, Tehran, Iran. 166-167.

Mirsoleymani Z., and Mostowfizadeh-Ghalemfarsa R., .2018. report of *Phytophthora* taxon Walnut as the causal agent of pistachio root and crown rot in Iran. Proceeding of the 23th Iranian Plant Protection Congress, Gorgan, Iran: 207-208.

Mirsoleymani Z., and Mostowfizadeh-Ghalemfarsa R., .2018. A revision of *Phytophthora parsiana* isolates based on single-strand-conformation polymorphism of ribosomal DNA. Proceeding of the 23th Iranian Plant Protection Congress, Gorgan, Iran: 197-198.

Mirsoleymani Z., and Mostowfizadeh-Ghalemfarsa R., Yang X., Hong C. Redesignation of *Phytophthora* taxon walnut as *P. hindsii* sp. nov. 2016. The American Phytopathological Society (APS) Potomac Division Meetings, Richmond, Virginia, USA: S3.3

Mirsoleymani Z., Mostowfizadeh-Ghalemfarsa R., Yang X., Hong C. Genetic diversity of *Phytophthora parsiana* causing pistachio gummosis in Iran. 2016. The American Phytopathological Society (APS) Potomac Division Meetings, Richmond, Virginia, USA: S3.4 (**Oral presentation**)

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa R. 2013. Characterization of *Phytophthora pistaciae*, the causal agent of pistachio gummosis, based on host

range, morphology, and ribosomal genome. *Phytopathologia Mediterranea* 52(3): 501-516.

Mirsoleimani Z., Mostowfizadeh-Ghalemfarsa R., Mohammadi, A. H., Djavaheri, M. and Banihashemi Z. 2013. Reaction of pistachio cultivars to *Phytophthora pistaciae* and the influence of temperature on its pathogenicity. *Iranian Journal of Plant Pathology* 49(3): 279-296.

Mostowfizadeh-Ghalemfarsa R., and **Mirsoleimani Z.** 2013. Species-specific identification and detection of *Phytophthora pistaciae*, the causal agent of pistachio gummosis, based on coding and non-coding loci. *Phytopathologia Mediterranea* 52: 31-46.

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa R. 2012a. Detection of *Phytophthora pistaciae*, the causal agent of pistachio gummosis, in soil, water and infected host tissues by nested-PCR. *Proceeding of the 20th Iranian Plant Protection Congress*, Shiraz, Iran: 167.

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa R. 2012b. The first report of chlamydospore formation in *Phytophthora pistaciae* isolates. *Proceeding of the 20th Iranian Plant Protection Congress*, Shiraz, Iran: 361.

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa R. 2012. *Pythium oligandrum* as a biological fungicide. *Plant Pathology Science* 1(1): 43-52.

Mirsoleimani Z., Mostowfizadeh-Ghalemfarsa R., and Mohammadi, A.H. 2012. Reaction of various Iranian cultivars pistachio trees to isolates of *Phytophthora pistaciae*. *Proceeding of the 20th Iranian Plant Protection Congress*, Shiraz, Iran: 153.

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa, R. 2011. A study on the host range of *Phytophthora pistaciae*. *Proceeding of the Asian Mycological Congress (AMC 2011)*, Incheon, Korea: 226.

Mirsoleimani Z., and Mostowfizadeh-Ghalemfarsa, R. 2011. *Fomitiporia mediterranea*: a new wood-decaying basidiomycete species associated with death of elm trees (*Ulmus carpinifolia* var. *umbraculifera*). *Proceeding of the Asian Mycological Congress (AMC 2011)*, Incheon, Korea: 227.



Mirsoleimani, Z., and Mostowfizadeh-Ghalemfarsa, R. 2011. Molecular recognition of the causal agent of pistachio gummosis based on phylogeny of ribosomal DNA. Proceeding of the 7th National Biotechnology Congress of I. R. of Iran. Tehran, Iran: 1104.

Mirsoleimani, Z., and Mostowfizadeh-Ghalemfarsa, R. 2015. *Alternaria* species associated with tomato, potato and weeds leaf spot in Fars province of Iran. Proceedings of the 2nd Iranian Mycological Congress, Karaj, Iran: 223.

Mirsoleimani, Z. and Mostowfizadeh-Ghalemfarsa, R. 2014. Airborne *Alternaria* flora of Shiraz city. Proceedings of the 21th Iranian Plant Protection Congress, Urmia, Iran: 885.

Mostowfizadeh-Ghalemfarsa, R., and **Mirsoleimani, Z.** 2011. Identification of *Phytophthora pistaciae* based on coding and non-coding loci. Proceeding of the Asian Mycological Congress (AMC 2011), Incheon, Korea: 396.

Mostowfizadeh-Ghalemfarsa R., and **Mirsoleimani Z.** 2012. Influence of temperature on pathogenicity of *Phytophthora pistaciae* isolates, the causal agent of pistachio gummosis. Proceeding of the 20th Iranian Plant Protection Congress, Shiraz, Iran: 140.

Books written

Mostowfizadeh-Ghalemfarsa, R., and **Mirsoleimani, Z.** 2015. Dictionary of Molecular Population Genetics. Eram Publication. Shiraz. Iran. 147PP.

Book translation (English to Persian)

Tabein, S., Esvand, P. **Mirsoleimani, Z.** Geminiviruses: Impact, Challenges and Approaches. Vinoth Kumar R. 2023. Shahid Chamran university Publication. Iran. Kuzestan. Ahvaz. 342PP.

Workshops

2024 Identification of important fungal and fungal-like pathogenic species in agricultural products. Shahid Chamran University of Ahvaz (SCU) Ahvaz, Iran

Reviewer of journals

PloS one

Plant Protection (Scientific Journal of Agriculture)

Plant Genetic Researches



Entrepreneurship project

Designing diagnostic kit for gummosis disease of pistachio trees. Shiraz university.
Iran