



Curriculum Vita of Zahra Mirsoleymani

Zahra Mirsoleymani

Assistant Professor of Mycology (Plant pathology)

Department of Plant Protection

College of Agriculture

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EDUCATION AND QUALIFICATIONS

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

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.

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

Mirsoleymani Z., Mostowfizadeh-Ghalamfarsa R., Yang X., and Hong C. 2021. Redesigning of *Phytophthora* taxon Walnut as *Phytophthora hindsii* sp. nov. and morphology, physiology, pathogenicity and molecular phylogeny. **Mycologia**. **Under review.**

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

Mirsoleymani Z., Reza Mostowfizadeh-Ghalamfarsa ,Fomitiporia mediterranea anew basidiomycete species for mycobiota of Iran , rostaniha ,vol. 0 ,2018 ,pp. 189-191.

Mirsoleymani Z., Mostowfizadeh-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa R., Yang X., Hong C. Genetic diversity of *Phytophthora persiana* 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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-Ghalamfarsa 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., Mostowfizadeh-Ghalamfarsa 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-Ghalamfarsa, 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-Ghalamfarsa, 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-Ghalamfarsa, 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-Ghalamfarsa, 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-Ghalamfarsa, R. 2014. Airborne *Alternaria* flora of Shiraz city. Proceedings of the 21th Iranian Plant Protection Congress, Urmia, Iran: 885.

Mostowfizadeh-Ghalamfarsa, 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-Ghalamfarsa 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

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



Review Articles

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

Entrepreneurship project

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