



## Marzieh Shamschiri Sorkhabadi

### *Curriculum Vitae*



**Marzieh Shamschiri,**  
**Ph.D. Student of Virology**  
**Department of Plant**  
**Pathology**  
**Faculty of Agriculture,**  
**Tarbiat Modares**  
**University, Tehran, Iran.**

**Date of Birth:** 16- July-1992



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## EDUCATION

Dec, 2022-

- Visiting research scholar at MBG-CSIC

Sep, 2023

Biotechnology of woody species

**Supervisor:** Dr. M. Concepcion Sanchez Fernandez ([conchi@mbg.csic.es](mailto:conchi@mbg.csic.es))

Sep, 2018-

- **Ph.D Student of Virology**

Dec, 2022

Department of Plant Pathology, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran.

**GPA:** 17.96 (on scale of 20).

**Thesis Title:** The effect of important plant viruses on the morphological, physiological and phytochemical characteristics of saffron (*Crocus sativus* L.) and parsley (*Petroselinum crispum*)

**Supervisor:** Prof. Masoud Shamsbakhsh ([shamsbakhsh@gmail.com](mailto:shamsbakhsh@gmail.com))

Sep, 2014-

- **Master of Science (MSc) in Plant Pathology**

Jan, 2017

Department of Plant Pathology, Faculty of Agriculture, Shahid Bahonar University of Kerman, Kerman, Iran

**GPA:** 17.45 (on scale of 20).

Thesis Title: "Genome Characterization and Demonstration of Infectivity of *Tomato leaf curl Oman virus* Isolated from Ground cherry (*Physalis divaricata* L.)".

**Supervisor:** Prof. Jahangir Heydarnejad ([jheydarnejad@yahoo.com](mailto:jheydarnejad@yahoo.com))

2010-2014

- **Bachelor of Science (BSc) in Plant Protection Engineering**

University of Science And Culture

**GPA:** 17.18 (on scale of 20).



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## **TRAINING, QUALIFICATIONS AND SKILLS:**

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### **Molecular Biology, Cell Biology, Tissue Culture and Chromatography techniques**

- Sequencing using the minION nanopore, with the aim of discovering new plant viruses
- Total RNA isolation, DNA isolation, Plasmid isolation
- Plant virus purification
- The construction of infectious clone for plant viruses
- Cloning of gene
- Polymerase chain reaction (PCR), Reverse-transcriptase Polymerase chain reaction (RT-PCR)
- Quantitative – PCR, Gene expression
- Bacterial Transformation, Bacterial Culture
- Tissue culture, Organogenesis, Somatic embryogenesis
- Thermotherapy, Cryopreservation, Meristem culturing
- Gas Chromatography (GC), Gas chromatography–mass spectrometry (GC-MS)
- Methanol, ethanol and ultrasonic extraction
- Essential oil extraction using Clevenger

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## **PUBLICATION (PAPERS):**

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- **Shamshiri M**, Heydarnejad J, Kamali M, Pouramini N, Massumi H (2019). Identification of wild hosts of tomato yellow leaf curl virus in South-Eastern Iran. Archives of Phytopathology and Plant Protection. doi.org/10.1080/03235408.2019.1682231.
- Heydarnejad j, Kamali M, Hassanvand V, Massumi H, **Shamshiri M**, Varsani A (2017). Turnip leaf curl disease associated with two begomoviruses in south-eastern Iran. Tropical plant pathology. DOI 10.1007/s40858-017-0196-7.

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## **ORAL AND POSTER PRESENTATIONS:**

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**2023** Virus resistance gene transfer from tolerant walnut genotypes to virus-susceptible superior commercial walnut cultivars. International First Copy Tree Conference on "Innovative Woody Plant Cloning" (Copytree -CA21157). Santiago de Compostela, SPAIN

**2019** Construction and demonstration of the infectivity of the infectious clone of *Tomato yellow leaf curl virus* isolated from *Physalis divaricata* and identification of wild hosts of the virus in south-eastern Iran 1st Iranian plant pathology congress, College of Agriculture and Natural Resources, University of



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Tehran, Karaj, IRAN

**2016** Isolation of a begomovirus with the recombinant genome from *Physalis divaricata* in Jiroft. Proceedings of 22nd Iranian Plant Protection Congress, College of Agriculture and Natural Resources, University of Tehran, Karaj, IRAN

**2016** Detection of *Turnip curly top virus* from datura in Fars province. Proceedings of 22nd Iranian Plant Protection Congress, College of Agriculture and Natural Resources, University of Tehran, Karaj, IRAN

**2016** Isolation of a new turncurtovirus from leafhoppers vector in Kerman province. Proceedings of 22nd Iranian Plant Protection Congress, College of Agriculture and Natural Resources, University of Tehran, Karaj, IRAN

### **AWARDS, AND HONORS:**

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**2017** Selected student as the top researcher in the field of plant pathology in the year, Kerman, Iran

**2022** Accepted in the virology team, University of Nebraska-Lincoln (America)

### **COMPUTER SKILLS:**

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- **Microsoft Office (Word, Power point, Excel):** Excellent
- **Statistical software (SAS):** good
- **Bioinformatic tools:** Primer Designing, MEGA7.0, Phylogenetic Analysis (focusing on virus evolution), Bayes, Figtree, Open Lab - agilent technologies, Xcalibur, Mendeley: good

### **RESEARCH INTERESTS:**

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- Medicinal Plants, Trees (nuts)
- Virus Free Plants
- Biotic and Abiotic Stress
- Virus-Host Interactions
- microRNA
- Virus Diseases, Bacterial Diseases
- Molecular Virology, Molecular Biology, Gene Expression
- Plant Breeding, Plant Genetics, Agricultural Biotechnology
- Plant Physiology, Morphology, Phytochemistry



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- Plant Tissue Culture, Micropropagation
  - Modeling and Optimizing Culture Medium Mineral Composition for in vitro Propagation

### **LANGUAGE:**

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- **Mother Tongue:** Persian
  - **Scientific Language:** English (fair)
- GPA:** 64 (on scale of 100 of MSRT (Ministry of Culture, and Higher Education) test).

### **work experience:**

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- **Internship in plant pathology clinic:** Two months
  - **The technical officer of the plant pathology clinic located in the Quarantine-Customs Department of Sarkhas county (Razavi Khorasan province):** One year