



CURRICULUM VITAE

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Academic qualifications

BSc: 2000-2004, Plant Pathology, University of Urmia, Iran

MSc: 2004-2006, Plant Pathology, University of Tabriz, Iran. **Thesis topic:** Study the genetic diversity of *Clavibacter michiganensis* subsp. *michiganensis* in North and North West of Iran

PhD: 2011-2015, Plant Pathology, University of Tarbiat Modares. **Thesis topic:** Study the biocontrol effect of surfactin on plant tumorigenic cells infected with *Agrobacterium tumifaciens* and tracking the induction pathways.

Research interests:

- Bacteriology
- Biocontrol
- Study the effectomics in Plant- pathogens interactions
- Study the population genetic structure of plant pathogens

Selected research projects:

- Preparation of LAMP-based diagnostic kit for rapid detection of Bacterial Leaf Streak in wheat seeds

- Identification of wheat Bacterial Leaf Streak pathogens and its distribution in Iran
- Study the biocontrol effect of cereal entophytic bacteria on wheat Bacterial Leaf Streak

Selected publications:

- **Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and Sharifi, M. (2017). *Bacillus subtilis* affects miRNAs and Flavanoids production in Agrobacterium-Tobacco interaction, **Plant Physiology and Biochemistry**. 118: 98-106. **(Q1)**

- Alcântara A., Bosch J., **Nazari F.**, Hoffmann G., Gallei M., Uhse S., Darino M.A., Olukayode 1,5, Reumann T.D., Baggaley L, and Djamei A. 2019. Systematic Y2H Screening Reveals Extensive Effector-Complex Formation. **Frontiers in Plant Science**. 10:1437. **(Q1)**

Journals papers

-**Nazari, F.**, Niknam, G.R., Ghasemi, A., Taghavi, S.M., Momeni, H. and Torabi, S. (2007). An investigation on strains of *Clavibacter michiganensis* subsp.*michiganensis* in North and North West of Iran. **Journal of Phytopathology** .155, 563-569.

-**Nazari, F.**, Niknam, G.R., Ghasemi, A., Taghavi, S.M., and Torabi, S. (2008). Study on phenotypic and protein profile diversity of tomato bacterial canker in Golestan and West Azarbaijan Provinces. **Applied Entomology and Phytopathology**. 76,135-151.

- Zand. E., Razmi. A., Benakashani. F., **Nazari, F.** and Gharakhloo, J. (2010). Using the dCAPS Method to Detect the Resistance of Wild Oat (*Avena ludoviciana* Durieu.) to Clodinfop-propargyl in Comparision with Current Methods. **Journal of Iranian Weed Science**. 6(1): 33-52.

- Zand. E., Razmi. A., Benakashani. F., **Nazari, F.** and Rastgoo, M. (2011). Comparision of grass weeds to Clodinfop-propargyl using by glass-house and molecular methods. **Journal of Iranian Weed Science**. 6 (2): 11-21.

- Momeni, H., and **Nazari, F.** (2016). Population genetic structure among Iranian isolates of *Fusarium verticillioides*. **Journal of plant pathology and microbiology**. 7: 355. Doi: 10.4172/2157-7471.1000355.
- **Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and Sharifi, M. (2016). The effect of *Bacillus subtilis* producing Surfactin in ROS production and transformation efficiency of tobacco cells. **Archives of Phytopathology and Plant Protection**. Doi:10.1080/03235408.2016.1253251.
- **Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and Sharifi, M. (2017). The effect of environmental factors on Surfactin production of *Bacillus subtilis*. **Journal of Crop protection**. 6 (1): 89-97.
- **Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and Sharifi, M. (2017). *Bacillus subtilis* affects miRNAs and Flavanoids production in Agrobacterium-Tobacco interaction, **Plant Physiology and Biochemistry**. 118: 98-106. (Q1)
- Alcântara A., Bosch J., **Nazari F.**, Hoffmann G., Gallei M., Uhse S., Darino M.A., Olukayode 1,5, Reumann T.D., Baggaley L, and Djamei A. 2019. Systematic Y2H Screening Reveals Extensive Effector-Complex Formation. **Frontiers in Plant Science**. 10:1437. (Q1)
- **Nazari, F** and Safaie, N. 2020. Using of auxin signaling pathway to investigate the contrast between two different strains of Bacillus against Agrobacterium. **Biocontrol in Plant Protection**. 8(1), 2020.
- **Nazari, F.**, Safaie, N., and Momeni, H. 2021. Evaluation of fluorescence-activated cell sorting technology in agrobacterium biocontrol. **Journal of Crop protection**. 2021, 10 (2): 391-399.
- **Nazari, F.** 2021. Application of Biological Agents in the management of Crown Gall disease: a review. **Biocontrol in Plant Protection**. (Accepted).

Conference papers:

- Nazari, F.**, Niknam, G.R, Ghasemi, A., Taghavi, S.M., Momeni, H. and Torabi, S. 2006. Determination of genetic diversity among isolates of *Clavibacter michiganensis* susp. *michiganensis* in West Azarbaijan and Golestan provinces. Proceeding of the 17th Iranian Plant Protection Congress, 2-5 September 2006. P 187.
- Nazari, F.** and E. Zand.2008. Molecular-based detection of resistance to acetyl-CoA carboxylase-inhibiting herbicides. Proceeding of the 10th Iranian Genetics Congress, 21-23 May 2008. P 260.
- Nazari, F.** Niknam, G.R., Ghasemi, A., Momeni, H. 2008. Study of plasmid profiles in *Clavibacter michiganensis* subsp. *michiganensis* and the effect of plasmid in pathogenesis. Proceeding of the 18th Iranian Plant Protection Congress, 23-25 September 2008. P 439.
- Momeni, H., **Nazari, F.** 2008. Genetic variability of the causal agent of Corn ear rot .Proceeding of the 10th Iranian Genetics congress.21-23 May 2008. P 171.
- Zand, E., **Nazari, F.** and Bena Kashani, F. 2008. Resistance detection of grass weeds to clodinafop-propargyl herbicide using Molecular-based and greenhouse methods. Proceeding of the 18th Iranian Plant Protection Congress, 23-25 September 2008. P 80.
- Khoshayand, S., Zand, E., **Nazari, F.** and Taeb. M. Use of microsatellites in study of *Phalaris* populations. Proceeding of the 3rd Iranian weeds science congress, 17-18 February 2010. p586.
- Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and M.Sharifi. 2016. Study of flavonoids produced by *Bacillus subtilis* due to its biocontrol effect on *Agrobacterium tumifacies* in tobacco plants. Proceeding of the 22th Iranian Plant Protection Congress, 23-25 September 2016. P 272.
- Nazari, F.**, Safaie, N., Soltani, B. M., Shams-Bakhsh, M. and M. Sharifi. 2016. Comparing the effect of different growth media on Surfactin production by *Bacillus subtili*. Proceeding of the 22th Iranian Plant Protection Congress, 23-25 September 2016. P 273.

Books:

Theses supervised:

Software and E-publications:

Other achievements:

Professional and Lab Experience

➤ Research

- 2018-2021, Department of Plant Disease Research, Iranian Research Institute of Plant Protection, “ **LAMP**-based diagnostic kit, **MLSA**”

- 2015-2016, Department of Molecular Genetics, Tarbiat Modares University, Tehran, Iran; Department of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
“Impact of Surfactin producing *Bacillus subtilis* on Agrobacterium and host plant”
 - **Real-time PCR, microRNAs, Gene expression, HPLC, RNA extraction, cDNA synthesis.**

- 2014-2015, Gregor Mendel Institute of Molecular Plant Biology (GMI), Vienna, Austria.
First project: “The establishment of a yeast-based auto-activity screen of 260 effectors”.
Second project: “Upcoming effector dimerization screen using pGADT7 vectors”.
Third project: “Impact of Surfactin producing *Bacillus subtilis* on Agrobacterium and host plant”.
 - **Gateway** cloning (pGBKT7 DNA binding domain vector and pGADT7 activation domain containing vector); **Yeast transformation**; interpret sequencing data; worked with the program **CLC** genomic workbench; **Plant cell-cultures; Fluorescence and Confocal** microscopes; **Plant cell-cultures transformation; FACS** (Fluorescence-activated cell sorting) and **Luminometer** (Synergy H1 Hybrid Multi-Mode Microplate Reader).
Protoplast extraction, **Golden Gate** cloning, **Yeast two-hybrid** system

- 2008-2009, Iranian Research Institute of Plant Protection (IRIPP)

Assisted with "Identification Molecular aspects of weed resistant to some chemical compounds".

- Molecular identification of weed resistant using PCR; PCR-RFLP; Sequencing

- 2008-2009, Iranian Research Institute of Plant Protection (IRIPP)

Assisted with some M.Sc. and PhD students' thesis.

- Genetic Diversity , DNA extraction and purification; PCR; ISSR; rep-PCR; bioinformatics and clustering

- 2004-2007, Iranian Research Institute of Plant Protection (IRIPP)

Genetic diversity of *Clavibacter michiganensis* subsp. *michiganensis* in North and North West of Iran.

- Detection and quantification of bacteria; culture of bacteria; Protein and DNA extraction; rep-PCR; Plasmid profiles; bioinformatics and clustering