

## Curriculum Vitae

KAMAL SADEGHI KHOMARTAJI



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Sex Male | Date of birth 16 July 1989

## EDUCATION AND TRAINING

### Master of Science in Plant pathology (Bacteriology)

2016 Bu-Ali Sina University(BASU) Shahid Mostafa Ahmadi Roshan Street, Hamedan, (Iran)  
<http://basu.ac.ir/en/home>

**Thesis title:** Identification of Sugarcane Epiphytic and Endophytic Bacteria and Their Role in Frostbite (INA bacteria)

**Supervisor:** Dr. Gholam Khodakaramian, Full Professor of plant pathology (Phytobacteriology)

#### Course works:

- Advanced plant bacteriology
- Advanced plant nematology
- Advanced plant mycology
- Advanced plant virology
- Bioecology of soil microbes
- Plant Disease Management
- Seed pathogens
- Physiology of parasitism
- Research design

### 2013 B.S., of Plant Protection

Azarbaijan Shahid Madani University  
Tabriz, Iran.

<http://en.azaruniv.ac.ir/>

#### Course works:

- Fundamental plant pathology
- Plant mycology
- Plant bacteriology
- Plant virology
- Plant nematology
- Biochemistry
- Toxicology
- Plant pests
- Plant diseases
- Epidemiology
- Statistical Analysis
- Molecular and cellular biology

### 2011 Post diploma of Plant Protection

University of Applied Science and Technology  
Mashhad, Kashmar, (Iran)

<http://jdk.ac.ir/>

#### Course works:

- Fundamental plant pathology
- Toxicology
- Entomology
- Plant diseases
- Sustainable agriculture
- Ecology

## Curriculum Vitae

### WORK EXPERIENCE

Since July, 2016

#### *Razavi Agriculture Industrial Company*

Between 6 and 8, Kouhsangi Blvd., Mashhad, Iran.

<https://www.imamreza.net/old/eng/imamreza.php?id=1138>

Staff member of plant protection department, as Plant Protection engineer.

Supervisor of high-density gardens (EM-apples, pear, almond, cherry, peach and pistachio).

Practical manager of pests and diseases control of company's fields (wide range of trees, crops, vegetables, and greenhouses products).

2013-2015

Working in Iran Ministry of Agriculture as plant protection assistance, and teaching to farmers so as to introduce and management of diseases and pests in **Wheat**, **Canola** and **Potato** fields. Hamedan, Iran (for three springs and summers).

### PERSONAL SKILLS

Mother tongue(s)

Kurdish and Persian

Other language(s)

ENGLISH (IELTS and Duolingo)

Communication skills

- Excellent verbal and written communication skills both in a research group and office environment.
- Excellent contact skills with co-workers and team.

Organisational / managerial skills

- Good team-leading and organizing skills gained as head of projects.
- During MSc, I managed a Plant pathology lab, Consisting of MSc. and BSc students (2014-2015)

Job-related skills

- PCR, Real-time PCR (good)
- DNA, RNA and protein extraction (good)
- Isolation and identification of the bacteria (good)
- Cloning (good)
- NGS and RNAseq (not bad)
- DNA sequencing and editing ((good))
- Good at diagnosis of filed diseases symptoms
- Good experience at biological control methods
- HPLC (not bad)
- R analysis (not bad)
- Geographic Information System (ARC-GIS)
- Plant Tissue Culture (good)
- SDS-Page (good)
- Good at working on biocontrol by PGPB
- Work with insect predators and parasitoids at field

Computer skills

- Statistical Analysis Software (SAS and R)
- Bioinformatic software (Mega, CLC, Geneious, POPgene, Vector NTI, Structure, Multilocus, NTSYS, Genious, Chromas, Primer3)
- Competent with most Microsoft Office programmes, Autocad 2D, SketchUp 3D and Basic in C++ programming

### PUBLICATIONS

Articles

- Mahdikhani, M. Navaei, F., and **Sadeghi, K.** (2021). *Effects of Different Rates of Phosphorus on Different Genotypes of Wheat and Canola Differing in P-Efficiency in Acidic Soils of Western Australia*. Indonesian Journal of Agricultural Research. 4(2): 118-129.
- Razinataj, M., Aeini, M., Khademlou, A. and **Sadeghi, K.,** (2020). *Isolation and Characterization of Brenneria nigrifluens Causing Bacterial Shallow Bark Canker of Walnut Trees in Golestan Province, Iran*. Journal of Genetic Resources, 6(2),148-156.
- **Sadeghi, K.** and Khodakaramian, G., (2019). *Characteristics and Ice Nucleation Activity of Sugarcane Epiphytic and Endophytic Bacteria and Their Role in Host Frostbite*. Springer, SugarTech, 22(2): 291-302.
- Hosseinijad, S.A., Abedi-Tizaki, M., Esmailzadeh-Hosseini, S.A, Kargar, F. and **Sadeghi, K.,** (2017). *Detection of nivalenol synthesis gene in madder seeds infected by Fusarium species by Polymerase Chain Reaction (PCR)*. Journal of Shahid Sadoughi University of Medical Science, 24(12): 952-962.
- Omidinassab, M., Khodakaramian, G., and **Sadeghi, K.,** (2023). *First report and detection of the pathogenicity of Serratia marcescens on bean in Iran. (In writing)*

Conferences

- **Sadeghi, K.** and Khodakaramian, G., (2016). *Identification of sugarcane epiphytic bacteria and investigation of their ice nucleation activity*. Agriculture development and healthy earth conference, University of Tehran.
- **Sadeghi, K.** Aeini, M. and Mahdikhan, M., (2019). *Investigation the ability of canola endophytic root bacteria to control Phoma lingam under in-vitro and greenhouse conditions*. First Iranian Congress of Plant Pathology, University of Tehran.
- **Sadeghi, K.** and Aeini, M., (2019). *Investigating the Effect of Plant Growth Promoting Bacteria in Induction of Resistance Related Enzymes in Bell Pepper*. First Iranian Congress of Plant Pathology, University of Tehran.

## Curriculum Vitae

### Workshops

- "**Bioinformatics Online School I**" 32 hours, Shiraz University, Biotechnology Scientific Society (Dec., 2021).
- "**RNA-Seq**" 8 hours, Shiraz University, Plant Virology Research Center (June, 2020).
- "**Primer Design**" 4 hours, Shiraz University, Plant Virology Research Center (June, 2020).
- "**Real-time PCR, the principles and techniques**", 8 hours, The College of Ferdowsi University of Mashhad (Jan., 2019).
- "**HPLC**", 7 hours, Technical and vocational school of Amin Azma Lab. (June, 2019).
- "**Population genetics software: ntsys, ntedit, PopGene, Structure Multilocus and GeneAlex**", University of Tehran, (Oct., 2019).
- "**Seed Technology**", 12 hours, Representative of German KWS company (Sep, 2019).
- "**Molecular Techniques including (RNA Extraction, cDNA Synthesis, PCR and Electrophoresis)**", 20 hours, Ferdowsi University of Mashhad (Oct., 2018).
- "**Gene Cloning and Gene Transfer to Bacteria**", 16 hours, The College of Ferdowsi University of Mashhad (July, 2018).
- "**ARC-GIS software (Basic)**", 30 hours, band score 18.5 out of 20, Ferdowsi University of Mashhad (Feb.-May, 2018).
- "**ARC-GIS software (Advanced)**", 30 hours, band score 19 out of 20, Ferdowsi University of Mashhad (June-Sep., 2018).
- "**C++ Programming**", 40 hours, Academic Center for Education, Culture and Research (July-Agu., 2018).
- "**R and the principles of statistical analyses in biology**", 25 hours, Department of Biology, Ferdowsi University of Mashhad (Oct.-Dec., 2018).
- "**Principal and Methods of Plant cell and Tissue Culture**", 20 hours, Iranian Biological Resource Center (Jan., 2017).
- "**Industrial Management**", 12 hours, Industrial Management Institute of Iran (Sep, 2016).
- "**Teaching Methods and Techniques**", 16 hours, Bu-Ali Sina University (May, 2015).

## ADDITIONAL INFORMATION

### Other skills and hobbies

- Kick-boxing professional (Black belt). Gold and Bronze medal in Asian Championships, Syria, 2005. and Tehran 2006, respectively.
- Karate (black belt).
- Running, Biking, Classical Movies, Playing Piano, Philosophy and Psychology books.

### Memberships

- Honorary member of \*Iranian Society conservationists of Wild Animals and the Environment\*.
- Member of \*Iranian Phytopathological Society\*.
- Member of \*Agriculture and Natural Resources Engineering Organization of Iran\*.
- Main member of \*Back to School Charity\*.

### Honours and awards

- Ranked 10 (A\*/1) in A.Sc. to B.Sc. entrance exam among 594 applicants in Plant Protection in Iran, July 2011.
- Ranked 18 (A/1) among 811 applicants in MSc. Plant Pathology Entrance Exam in Iran, June 2013.

## REFERENCES

- **Gholam khodakaramian, Ph.D.**  
Full Professor of Plant bacteriology, Department of plant protection.  
Bu-Ali Sina University, Hamedan, Iran  
<https://agr.basu.ac.ir/en/-khodakaramian>  
(+98) 921-253-0225 | [khodakaramian@basu.ac.ir](mailto:khodakaramian@basu.ac.ir) / [khodakaramian@yahoo.com](mailto:khodakaramian@yahoo.com)  
Relationship: Dr. Gholam was my MSc. Supervisor at Bu-Ali Sina University.
- **Alireza Alizadeh, Ph.D.**  
Assistant Professor of Plant mycology, Department of plant protection  
Azarbaijan Shahi Madani University, Tabriz, Iran  
[https://scholar.google.com/citations?user=qMMM\\_Y8AAAAJ&hl=en](https://scholar.google.com/citations?user=qMMM_Y8AAAAJ&hl=en)  
(+98) 914-492-0472 | [alireza.alizadeh@azaruniv.ac.ir](mailto:alireza.alizadeh@azaruniv.ac.ir)  
Relationship: Alireza was our mycology professor when I was BSc. student.
- **Milad Aeni, Ph.D.**  
Assistant Professor of Plant bacteriology, Department of plant pathology  
Shahid Chamran University, Ahvaz, Iran  
(+98) 912-048-8001 | [m.aeni@scu.ac.ir](mailto:m.aeni@scu.ac.ir)  
<https://www.researchgate.net/profile/Milad-Aeni/research>  
Relationship: Milad is assistant professor at Shahid Chamran University.
- **Soheila Mirzaei Ph.D.**  
Assistant Professor of Plant mycology, Department of plant pathology  
Bu-Ali Sina University, Hamedan, Iran  
(+98) 918-313-2980 | [smirzaei@basu.ac.ir](mailto:smirzaei@basu.ac.ir)  
<https://agr.basu.ac.ir/en/-smirzaei>  
Relationship: Soheila is assistant professor at Bu-Ali Sina University.