

SeyyedeH Atefeh Hosseini

Curriculum Vitae

Address (professional): Department of Plant protection, Faculty of Agriculture, University of Birjand, Iran.

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Current position

2014- Present- Assistant professor of plant virology, Department of Plant Protection, Faculty of Agriculture, University of Birjand

Education:

2009-2014- PhD in Plant Virology, Department of Plant Protection, Faculty of Agriculture, Ferdowsi University of Mashhad, Thesis: Detection and molecular investigation of soil-borne cereal viruses in Khorasan (Iran), Supervisor: Professor Behroz Jafarpour

September 2013-March2013- PhD visiting student, Plant Virology, DipSA - Dipartimento di Scienze Agrarie, Area Patologia Vegetale Università di Bologna, Dr.Claudio Ratti, Italy.

2004-2007 - M.Sc in Plant Pathology, Department of Plant Protection, Faculty of Agriculture, Shahid Bahonar University of Kerman, Iran.

Thesis: Phylogenetic analysis of *Potato virus Y* strains Supervisor, Professor Hossein Massumi

2000-2004 - B.Sc in Plant protection, Department of Plant Protection, Faculty of Agriculture, Shahid Bahonar University of Kerman, Iran.

Honors and Awards

Best student of M.Sc of Plant Pathology at Shahid Bahonar University (2007)

Best student of Ph.D of Plant pathology at Ferdowsi University of Mashhad (2014)

Honor of six months fellowship as a visiting student at the University of Bologna (Italy) from the Ministry of science, research and technology of Iran (2013)

Best grade of MSc and Ph.D thesis

Best teacher of the Aricultural Education Center of South khorasan (2012)

Best advisor of University of Birjand in Plant Pathology Scientific Community (2015)

Research experience

2011 – 2014: PH.D thesis in Ferdowsi University of Mashhad and University di Bologna

The research experiences :

Detection of Soil-born viruses by serological and molecular methods,

Cloning and sequencing of some genes and Fulllength genome of *Barley yellow mosaic virus*

Construction of infectious cDNA clones of viruses.

Since 2014: Assistant professor, Department of Plant protection, Faculty of Agriculture, University of Birjand

Responsibilities:

Development and realization of laboratory experiments for plant pathology and Virology

Development of a variety of projects on plant viruses were funded by University of Birjand.

2015-2017 : Supervisor of seven M.Sc students at the University of Birjand

Some Thesis title::

1-Serological and molecular characterization of *Tomato spotted wilt virus* in Saffron Fields of Iran.

Student: Salar Farokhvand

2- Serological and molecular characterization of *Turnip mosaic virus* in Saffron Fields of Iran.

Student: Maryam Heydari

3- Molecular characterization of Potyviruses in *Ocimum basilicum* in Sistan and Balochestan

Student: Hassanpour

4- Production of resistant cultivar of tomato against *Tomato leaf curl virus* by Methylation-Mediated Transcriptional Gene Silencing.

Student: Mahboobe Alikhani

Core skills

- **Virus detection:** Serological, Biological and Molecular methods,
 - **Vector mediated transmission**, glasshouse assays and field trials.
 - **Molecular methods:** DNA, RNA extraction, RT-PCR, cloning, ligation, transformation, agarose gel electrophoresis, restriction digests, plasmid extraction, full length sequencing of viruses, Construction of infection clone, Agroinfection
 - **RNA mediated and Gene silencing**
 - **Bioinformatics** : Mega 6, NTI Vector, DTV, DNAMAN, Megalign, RDP4
 - **Statistical methods:** R,...
 - **Software skills:** Word, Excel, and powerpoint
 - **Antibody production**
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Research Interests

1. Phylogenetic and evolutionary analysis of plant viruses
2. Investigation of recombination in plant viruses.
3. Construction of expression vectors
4. Investigation of molecular aspects of the biology of plant viruses
5. Investigation of the resistance mechanisms in plant cultivars and viruses
6. Production of recombinant Antibodies

Teaching experience

1. Plant Pathology for B.Sc students (5 years).
2. Advanced Virology for M.Sc students (5 years).
3. Plant Viruses and Prokaryotes for B.Sc students (5 years).
4. Molecular methods in Plant pathology for M.Sc students (2 years).
5. Important diseases of seeds for M.Sc students (2 years).

Book:

Translation of the book entitled "Comparative Plant Virology" (editor: Roger Hull) into Persian for virology students.

Languages

English (Professional working proficiency), Certified by IELTS

Italian (Elementary proficiency)

List of Publications

- 1- **Hosseini A**, Massumi H, Heydarnezhad J, Hosseinipour A, Varsani Arvind. 2011. characterization of *Potato virus Y* isolates from Iran. *virus genes*. 42(1), pp 128–140.
- 2- **Hosseini A**, Jafarpour B, Mahdikhany E, Mehrvar M, Zaki aghl M, Autonel R, Ratti. 2013. Occurrence of soilborn cereal virus and molecular characterization of the coat protein gene of Barley yellow mosaic virus isolates from Iran. *Journal of plant Pathology* 96 (2). 391-396
- 3- **Hosseini A**, Jafarpour B, Mahdikhani, E, Mehrvar M, Zaki Aghl M. 2013. Characterization of *Barley mild mosaic virus* in some provinces of Iran by serological and molecular methods, *Plant protection Journal*, 28 (4): 32-45. (In Persian)
- 4- Salary K, **Hosseini A**, Heydar Nezhad, J. 2014. Investigation of weed hosts of *Tomato leaf curl virus* from south of Kerman province by molecular methods. *Plant Protection Journal* 29 (3). 427-436 (In Persian)

- 5-Gerami M, Mehrvar M, **Hosseini A**. 2015. Detection and Molecular characterization of Beet yellows virus in West Azarbayjan, Kermanshah and Hamedan. *Plant Protection Journal*. 28 (4). 537-378 (In Persian)
- 6- Fuladvamd S, **Hosseini A**. 2015. Fungi and Fungi-like organism as plant viruses vector. *Plant pathology science Journal* 4 (2). (In Persian)
- 7-**Hosseini A**, Jahani M, Salary K, Mehrvar M. 2017. Characterization of *Barley yellow mosaic virus* pathotype by biological and molecular methods in Iran. *Jordan Journal of Agricultural Sciences*, 13, (1)
- 8-**Hosseini A**, Salari K. 2017. Detection and molecular characterisation of *Potato virus S* of weed reservoirs in Iran. *Archives of Phytopathology and Plant Protection*. DOI: 0.1080/03235408.2017.1388034.
- 9-Farokhvan S, **Hosseini A**, Salari K and Amini Fard M.H. 2018. Detection and phylogenetic analysis of saffron and tomato isolates of *Tomato spotted wilt virus* from South Khorasan. *Iranian Journal of Plant Protection Science*. 48 (2). 217-227
- 10- **Hosseini A**. Zamani G. R, Yaghub Zadeh M. Mehdi K. 2018. Effects of *Cucumber Mosaic Virus* infection and drought tolerance of tomato plants under greenhouse conditions: Preliminary results. *Journal of Berry Research* 8(3):1-8 .
- 11- **Hosseini A** and Salary K. 2018. Phylogenetic Study of Two Iranian Isolates of *Wheat streak mosaic virus* in Nla-Pro Proteinase Coding Region. *Iranian Journal of applied research in plant protection*. 6(3): 151-161

Contribution to 13 international & national Congresses

1. **Hosseini A**, Shahidi G.H. Aghighi S. 2004. Biosensors are powerful tools to detection of biological molecules. *4th Biotechnology congress of Iran*. 27-29 Aug. High technology center, Kerman, Iran.
 2. **Hosseini A**, Massumi H, Hosseinipour A., Heydarnezhad J, Shabani M. 2008. Comparison of protease genes of 14 isolates of PVY. *18th Plant Protection congress*, 25-27 Aug., Boali-Sina University hamedan, Iran.
 3. **Hosseini A**, Massumi H, Hosseinipour A., Heydarnezhad J., Shabani M. Detection and investigation of PVY strains with the help of specific primers. 2008. *5th congress of Biotechnology*. Tehran, Iran
 4. **Hosseini A**, Massumi H, Hosseinipour A, Heydarnezhad J, Shabani M, Comparison of coat protein gene of some PVY isolates of Iran. *5th congress of Biotechnology*. Tehran, Iran.
 5. **Hosseini A**, Massumi H, Shabani M. 2007. Detection and investigation of N, C, NTN, O strains of PVY by molecular and serological methods in Fars and Kerman provinces. *17th Plant protection congress*, 2-4 sep. University of Tehran, Tehran, Iran.
 6. Shamsadini F, Massumi H, **Hosseini A**, Hosseinipour A, Heydarnezhad J. 2008. Introduction of some new hosts of PVY from Kerman province. *18th Plant Protection congress-25-27 Aug*. Boali-Sina University, hamedan, Iran.
 7. Shabani m, Massumi H, Heydarnezhad J, Poamini N, **Hosseini A**, Salary K. 2009. Detection of plant viruses on potato from Esfahan and Fars. *3th Virology Congress*, 21 Jan. Tehran, Iran.
 8. **Hosseini A**, Mehrvar M. Molecular characterization of Barley yellow mosaic virus from Iran. 2014. *21th Plant Pathology Congress*. Oromie, Iran
 9. **Hosseini A**. Mehrvar M. 2014. Investigation of Furoviruses in Iran. 2014. *21th Plant Pathology Congress*. Oromie, Iran.
 10. **Hosseini. A**. 2015. Design of Small hairpin RNA(shRNA) to create resistance Against *Tomato mosaic virus*. *1st International and 9th national congress of Biotechnology*, Tehran, Iran.
 11. **Hosseini A**. 2015. Prediction of Coat protein epitopes in *Potato leaf roll virus* (PLRV). *1st International and 9th national congress of Biotechnology*, Tehran, Iran.
 12. Salary K, **Hosseini A**. 2017. Detection of two causing mosaic in maize fields of Southern Regions of kerman. *1st International and 2sd national Congress of Agriculture, Enviromental and Food Security*. 2017. University of Jiroft, Jiroft, Iran.
 13. Salary K, **Hosseini A**. 2017. Interaction of Ubiquitin and plant viruses. *1st International and 2sd national Congress of Agriculture, Enviromental and Food Security*. 2017. University of Jiroft, Jiroft, Iran.
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References:**Dr. Claudio Ratti**

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