

Curriculum Vitae of Amir Massah

(Assoc. Prof.)



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Academic Degrees:

B.Sc	Isfahan University of Technology	Plant Protection	1994
M.Sc	Shiraz University	Plant Pathology	1997
Ph.D.	Shiraz University	Plant Pathology	2005

Visiting Scientist: **German Collection of Microorganisms and cell cultures, Braunschweig, Germany, 2004**

M.Sc. Thesis: **Biological and Certain Physicochemical Properties of the Iranian Isolate of Cynodon chlorohei streak virus**

Ph.D. Dissertation: **Sequencing, Taxonomy and Certain Aspects of Virus-Vector Relationships of Iranian maize mosaic virus**

Publications

Journal Papers:

1- Ayazpour, K. and Massah, A. 2001. Isolation and characterizations of *Rhizoctonia solani* isolated from tomato in Fars province (Iran). Iranian Journal of Plant Pathology 37: 319 (Short report).

- 2- Massah A., Izadpanah, K. and Lesemann, D. E. 2005. Relationship of Iranian maize mosaic virus with insect vector and plant cells. *Iranian Journal of Plant Pathology* 41: 151-159. (In English).
- 3- Massah, A., Izadpanah, K., Afsharifar, A. and Winter, S. 2008. Analysis of Nucleotide Sequence of Iranian Maize Mosaic Virus Confirms its Identity as a Distinct Nucleorhabdovirus, *Archives of Virology* 153:1041-1047.
- 4- Mousavi, S. H., Babaezad, V., Sharifnabi, B., Tajic Ghanbari, M. A., Massah, A. and Alavi, S. M. 2012. Possible symbiosis and evaluation of endomycorrhizal fungus *Piriformospora indica* in rice plant. *Iranian Journal of Plant Pathology* 48: 441-442 (Short report). In Persian.
- 5- Tabejamaat, Z., A. Massah and Ahoonmanesh A. 2013. Molecular Analysis of ORF6, ORF7 and ORF8 of Beet yellows virus Iranian isolate. *Journal of Phytopathology* 161: 577-578.
- 6- Mousavi, S. H., Babaezad, V., Sharifnabi, B., Tajic Ghanbari, M. A., Massah, A. and Alavi, S. M. 2014. Induction of blast disease resistance in rice plants by endophyte fungus *Piriformospora indica*. *Iranian Journal of Plant Pathology* 50: 255-267. In Persian.
- 7- Mirchenari, S. M., Massah, A. and Zirak, L. 2015. 'Bois Noir': New Phytoplasma Disease of Grapevine in Iran. *Plant Protection Research* 55:88-93.
- 8- Babaie, Gh. Kohi Habibi Dehkordi, M., Massah, A., Dizadji, A. Izadinejad, L. and Simon A. 2015. Complete genome sequence and genome analysis of Eggplant mottled dwarf virus, Iranian isolate. *Journal of Phytopathology* 5: 331-341.
- 9- Dalir, N., Khoshgoftarmanesh, A., Massah, A. and Shriatmadari, H. 2015. Plasma membrane ATPase and H⁺ transport activities of microsomal membranes from wheat roots under Ni deficiency conditions as affected by exogenous histidine. *Environmental and Experimental Botany* 135: 56-62.
- 10- Farahbakhsh, F. and Massah, A. 2015. Genetic of resistance to plant diseases. *Journal of Plant Pathology Science*. 4: 64-73. In Persian.
- 11- Hortamani, M., Massah A. and Izadpanah, K. 2018. Maize Iranian mosaic virus shows a descending transcript accumulation order in plant and insect hosts. *Archives of Virology* 163:887-893.
- 12- Hortamani, M., Massah, A., Talebi, M. and Izadpanah, K. 2018. Genetic diversity and phylogenetic analysis of Maize Iranian mosaic virus isolates based on geographical distribution, host and type of symptoms. *Iranian Journal of Plant Pathology* 50: 255-267. In Press. (In English)

- 13- Shahsavari, N., Khoshgoftarmanesh, A., Mirmohammady Maibody A. M., Shariatmadari, H. and Massah, A. 2019. The role of root plasma membrane ATPase and rhizosphere acidification in zinc uptake by two different Zn-deficiency tolerant wheat cultivars in response to zinc and histidine availability. *Archives of Agronomy and Soil Science*. 65(12): 1646-1658. DOI: 10.1080/03650340.2019.1572881.
- 14- Givi, F., Gholami, M. and Massah, A. 2018. Application of pomegranate peel extract and essential oil as a safe botanical preservative for the control of postharvest decay caused by *Penicillium italicum* and *Penicillium digitatum* on "Satsuma" mandarin. *Journal of Food Safety*. DOI: 10.1111/jfs.12639.
- 15- Farahbakhsh, F., Hamzehzarghani, H., Massah, A., Tortosa, A., Yasayee, and M., Rodriguez, V. M. 2019. Comparative metabolomics of temperature sensitive resistance to Wheat streak mosaic virus (WSMV) in resistant and susceptible wheat cultivars. *Journal of Plant Physiology*. 237: 30-49.
- 16- Eyvazi, A., Massah, A., Soorni, A. and Babaie, Gh. 2021. Molecular phylogenetic analysis shows that causal agent of maize rough dwarf disease in Iran is closer to rice black-streaked dwarf virus. *European Journal of Plant Protection*. 160: 411-425.
- 17- Babaie, Gh., Massah, A. and Koochi Habibi, M. 2021. Efficient translation of Eggplant mottled dwarf nucleorhabdovirus N and X genes requires both 5' and 3' UTRs. *Virology Journal*. 18. 129. Doi.org/10.1186/s12985-021-01601-4.
- 18- Rahimi Tamanghani, P., Sharifnabi, B., Massah, A. and Zahravi, M. 2021. Induced reprogramming of oxidative stress responses in cucumber by *Trichoderma asperellum* (Iran 3062C) enhances defense against cucumber mosaic virus. *Biological Control*: 164: 104779. Doi.org/10.1016/j.biocontrol.2021.104779.
- 19- Farahbakhsh, F., Massah A., Hamzehzarghani H., Yassaie M., Amjadi Z., El-Zaeddi H. and Carbonell-Barrachina A. A. 2023. Comparative profiling of volatile organic compounds associated to temperature sensitive resistance to wheat streak mosaic virus (WSMV) in resistant and susceptible wheat cultivars at normal and elevated temperatures. *Journal of Plant Physiology* 211: 153903.
- 20- Nourbakhsh, F., Massah, A., Soorni, A. and Talaei, L. 2023. First report of High Plains wheat mosaic virus in Iran. *New Disease Reports*, 47: e12188. <https://doi.org/10.1002/ndr2.12188>.
- 21- Choupannejad, R., Sharifnabi B., Mehrabi, R., Gholami, J., Massah, A. and Collemare, J. 2023. Specific up-regulation of transcription factors in the fungus *Parastagonospora nodorum* suggests a role in pathogenicity on wheat. *Mycologia Iranica*. 10: DOI: 10.22043/MI.2023.362598.1263.

Conference Papers:

1-Massah, A. and Izadpanah, K. 1998. Purification, serology and transmission of the Iranian isolate of *Cyndon chlorotic streak rhabdovirus*. Proceedings of the 13rd Iranian Plant Protection Congress, 27-30 Aug. Karaj, Iran, 313.

2- Massah, A., Izadpanah, K., Afsharifar, A. R. 2004. Partial sequence of the l protein gene of Iranian mosaic rhabdovirus by a new random-PCR method. 15th International of Plant Protection Congress, Beijing, China, 338.

3- Massah, A., Winter, S., Afsharifar, A. R. Ahoonmanesh A. and Izadpanah, K. 2004. Molecular characterization of the Iranian maize mosaic nucleorhabdovirus. Viruskrankheiten der Pflanzen, Tatung 2004, Branschweig, Germany, 23-24.

4-Massah, A., Izadpanah, K., Afsharifar, A. R., Winter, S. and Ahoonmanesh A. 2006. Sequencing and molecular characterization of Iranian maize mosaic nucleorhabdovirus. Proceedings of the 17th Iranian Plant Protection Congress, 27-30 Aug. Karaj, Iran, 88.

5- Afazel, M., Gobadi, C. and A. Massah. 2007. Molecular detection of leek yellow stripe potyvirus and onion yellow dwarf potyvirus in garlic (*Allium sativum* Jandagh) based on RT-PCR procedure and production of virus free garlic plants with stem disk dome culture. 5th National Biotechnology Congress of Iran, Shiraz, Iran, 262.

6- Balali, Gh., Nematbakhsh, M., Tavasoli, M. and Massah, A. 2007. Double stranded RNA elements in *Rhizoctonia solani* AG 3 isolated from potato fields in Isfahan Iran. 4th International Symposium on Rhizoctonia, Berlin, Germany. 44.

7- Afazel, M., Massah, A and C. Gobadi 2008. Detection and molecular properties of *Onion yellow dwarf virus* and *Leek yellow stripe virus* in garlic (*Allium sativum* Jandagh) and production of virus free garlic plants using stem disk dome culture method. Proceedings of the 18th Iranian Plant Protection Congress, 24-27 Aug. Hamedan, Iran, 484.

8- Omrani, R., Massah, A. and Ahoonmanesh A. 2008. Determination of certain molecular properties of *Cucurbit aphid-borne yellows virus* in Isfahan and Hormozgan province. Proceedings of the 18th Iranian Plant Protection Congress, 24-27 Aug. Hamedan, Iran, 478.

9 - Tabejamaat, Z., Massah, A. and Ahoonmanesh A. 2008. Detection and determination of certain molecular properties of *Beet yellows virus* in Isfahan province. Proceedings of the 18th Iranian Plant Protection Congress, 24-27 Aug. Hamedan, Iran, 490.

10- Derakhshian, M., Massah, A. and Bahar, M. 2010. Molecular identification of Apple chlorotic leaf spot virus in Isfahan and Western Azarbaijan. Proceedings of the 19th Iranian Plant Protection Congress, 31 July-3 Aug. Tehran, Iran. 683.

- 11- Asakereh, F., Massah, A. and Babaei, Gh. 2010. Detection of *Prunus necrotic ringspot* virus in Chaharmahal va Bakhtiari province. Proceedings of the 19th Iranian Plant Protection Congress, 31 July-3 Aug. Tehran, Iran. 713.
- 12- Mansourpour, M., Massah, A., Ahoonmanesh A. and Lak M. 2010. Detection and Determination of Certain Molecular Properties of *Faba bean necrotic yellows virus* in Central and Western Provinces of Iran. Proceedings of the 19th Iranian Plant Protection Congress, 31 July-3 Aug. Tehran, Iran. 769.
- 13-Arabshah, M. and Massah, A. 2012. Determination of molecular variation of Alfalfa mosaic virus isolated from different hosts in Isfahan and Chaharmahal va Bakhtiari provinces. Proceedings of the 20th Iranian Plant Protection Congress, 25-28 Aug. Shiraz, Iran. 866.
- 14- Mohajer, M., Massah, A. and Masoud, B. 2012. Simultaneous detection of potato viruses by Multiplex-RT-PCR. 2012. Proceedings of the 20th Iranian Plant Protection Congress, 25-28 Aug. Shiraz, Iran. 89.
- 15- Seifi, R. and Massah, A. Characterization of molecular properties of Potato leaf roll virus isolates in Isfahan and Chaharmahal va Bakhtiari provinces. 2012. Proceedings of the 20th Iranian Plant Protection Congress, 25-28 Aug. Shiraz, Iran.
- 16- Pourvali, F., Alavi, V. and Massah, A. 2012. Detection of citrus psorosis virus by dsRNA extraction method. Proceedings of the 20th Iranian Plant Protection Congress, 25-28 Aug. Shiraz, Iran. 871.
- 17- Khezerpour, K. and Massah, A. 2014. Molecular Identification of five grapevine viroids in Isfahan province by RT-PCR. Proceedings of the 21st Iranian Plant Protection Congress, 23-27 Aug. Urmia, Iran. 404.
- 18- Sharifnabi, B. Massah, A., Abbasian, M. and Mostafa, M. 2014. Development of an air-dry multiplex PCR master mix in detection of two important soil borne fungi *Rosellinia* and *Armillaria*. 11th Conference of the European Foundation for Plant Pathology. Karakov, Poland. 239.
- 19- Majidian, N. Massah, A., Bahar, M. and Farahbakhsh, F. 2016. Detection and determination of genetic variation of tospoviruses infecting Solanaceae vegetable crops in Isfahan and Chaharmahal va Bakhtiari provinces. Proceedings of the 22nd Iranian Plant Protection Congress, 28-31 Aug. Shiraz, Iran. 49.
- 20- Torkian, M. and Massah, A. 2016. Identification and genetic variation of Cymbidium mosaic virus and Odontoglossum ringspot virus in orchids. Proceedings of the 22nd Iranian Plant Protection Congress, 28-31 Aug. Shiraz, Iran. 48.
- 21- Tahvildari, M. and Massah, A. 2016. Identification and genetic variation of Alstroemeria mosaic virus in Isfahan and Chaharmahal va Bakhtiari provinces. Proceedings of the 20th Iranian Plant Protection Congress, 28-31 Aug. Shiraz, Iran. 53.

22- Farahbakhsh, F., Massah, A., Hamzehzarghani, H., Yasayee, M., Rodriguez, V. M. and Velasco P. 2018. Metabolic responses of resistant and susceptible wheat cultivars against *Wheat streak mosaic virus*. Proceedings of the 23rd Iranian Plant Protection Congress, 27-30 Aug., Gorgan University of Agricultural Sciences and Natural Resources. 654-655.