



## CURRICULUM VITAE

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#### Academic qualifications

**MSc:** 2000–M.Sc. in Plant Pathology from Islamic Azad University Tehran-Iran, Research and Science Division. Jan 2002.

**BSc:** 1994 – 1998 B.Sc. in plant protection from Buali University of Hamadan, Hamadan, Iran. Sept 1998.

#### Research interests

Ornamental virus diseases, free-virus ornamental production, Banana viruses, Lettuce viruses and co-operate in legume and greenhouse viruses, Expert systems and Decision Support Systems.

#### Research projects

1. Detection of bean viruses in East Azerbaijan.
2. Molecular Characterization of Iranian isolates of tomato yellow leaf curl virus.
3. Serological and biological characterization of Faba bean necrotic yellows virus (FBNYV) in Iran.
4. Identification and determination of transmission ability of thrips species vector of two tospovirus tomato spotted wilt (TSWV) and impatiens necrotic spot (INSV) from ornamentals in Tehran province.
5. Detection and survey of main viral diseases of ornamentals in Tehran and Markazi provinces.
6. Study on cucurbit viruses in Sistan and Baluchestan province.
7. Survey and identification of viral diseases of soybean with emphasis on seed transmitted viruses and their distribution in different main growing areas.
8. Identification and further survey on distribution of viral diseases of oilseed rape in main growing areas in Iran.
9. Study of biological and molecular diversity of Bean common mosaic virus (BCMV) isolates in Iran.
10. Study and detection of main viral diseases of Banana in Iran.
11. Biological and Molecular characterization of *Impatiens necrotic spot virus* (INSV-Tospovirus) isolated from ornamentals of Iran.

12. Detection and distribution of main viral diseases of ornamentals in Northern provinces of Iran.
13. Eradication of two main tospoviruses Tomato spotted wilt virus (TSWV) and Impatiens necrotic spot virus (INSV) in ornamental *Alstroemeria* by tissue culture method
14. The study on reaction of important chrysanthemum cultivars to Tomato spotted wilt *tospovirus* in green-house.
15. Survey and Contamination of main viruses Anthorinum ornamental plant in Varamin.
16. The study on reaction of important Anthurium cultivars to *Cucumber mosaic virus* in green-house conditions.
17. Determine distribution and contamination of TSWV and INSV two harmful Tospoviruses in Cultivate lettuce areas of Tehran, Alborz and Mazandaran Provinces
18. Study on effects of planting date and seed treatments on control of infection to TSWV harmful virus in lettuce
19. Study of distribution and the role of Lettuce big vein virus (LBVaV) in the main lettuce cultivation areas and its management
20. Management of TSWV harmful Tospoviruses in lettuce cultivation areas in Alborz Province

## **Publications**

### **Journals papers:**

- Shahraeen, N., **Ghotbi, T. 2001.** Furovirus Diseases of Sugar Beets in the United States. Zeitun. No. 149. July & Nov.
- Shahraeen, N., **Ghotbi, T.**, Mehraban, A.H. **2002.** Occurrence of Impatiens necrotic spot virus in ornamentals in Mahallat & Tehran provinces in Iran. *Plant Dis.* 86:6., 694.
- Shahraeen, N., **Ghotbi, T. 2001.** Tomato spotted wilt virus (TSWV). Agricultural extension service publication series.
- Makkouk, K. M., Kumari, S. G., Shahraeen, N., Fazali, Y., farzadfar, Sh., **Ghotbi, T.**, Mansouri, A. **2003.** Identification and seasonal variation of viral diseases of chickpea and lentil in Iran. *Journal of plant diseases and protection.* 110 (2), 157-169.
- Ghotbi, T.**, Gilasian, E., Shahraeen, N. **2003.** Detection of tospoviruses in individual thrips by ELISA from ornamental plants in Tehran and Markazi provinces. *Entomology and Phytopathology.* March 2003. 70(2).
- Shahraeen, N., Lesman, D. E., **Ghotbi, T. 2005.** Report on incidence of different viruses infecting *Allium* spp. in Iran. *Iranian plant pathology.* 39(3-4), 229-232.
- Ghotbi, T.**, Shahraeen, N., Winter, S. **2005.** Occurrence of Tospoviruses in Ornamental and Weed Species in Markazi and Tehran Provinces in Iran. *Plant Disease.* 89:4, 425-429.
- Ghotbi, T.**, Banaej, K. **2005.** First report of *Cucumber mosaic virus* in Banana from Iran. *Plant Diseases.* 89: 914.
- Shahraeen, N., **Ghotbi, T. 2005.** First report of Bean Pod Mottle virus in Soybean in Iran. *Plant disease.* 89: 775.
- Shahraeen, N., **Ghotbi, T. 2005.** A survey of Viruses Affecting French Bean in Iran includes first record of Southern Bean Mosaic Virus (SBMV) and Bean Pod Mottle Virus (BPMV). *Plant disease.* 89: 1012.
- Ghotbi, T.**, Shahraeen, N. **2005.** Report on occurrence of three tospoviruses in onions (*Allium cepa*) from Markazi province. *Iranian journal of plant pathology.* 41(1), 142-143.
- Ghotbi, T.**, Shahraeen, N. **2005.** First report on incidence of Arabis mosaic virus (ArMV, Nepovirus) on ornamental plants in Iran. *Iranian journal of plant pathology.* 41(2), 305.

- Banaej, K., **Ghotbi, T.**, Vahdat, A. **2006**. First report of *Banana bunchy top virus* infecting banana in Iran. Plant Pathology. Vol: 14.
- Ghotbi, T. 2006**. First report on incidence of *Tobacco streak virus* (TSV) on ornamental plants in Iran. Iranian plant pathology. 42(1), 560.
- Shahraeen, N., Lesman D.E. and **Ghotbi, T. 2008**. Survey for viruses infecting onion, garlic and leek crops in Iran. EPPO Bulletin. 38: 131-135.
- Ghotbi, T.** and Shahraeen, N. **2009**. Natural incidence and infectivity level of three nepoviruses in ornamental crops in Iran. Journal of plant breeding and crop science. 1(3). 039-044.
- Bayat, H., and **Ghotbi, T. 2010**. First report of Carnation vein mottle virus (CVMV) infecting Carnation in Iran. Iranian Journal of the plant pathology. 46(1): 29.
- Ghotbi, T.** and Shahraeen, N. **2012**. Incidence and distribution of viruses infecting propagated ornamentals in Northern Iran. International research journal of microbiology (IRJM). 3(11). 373-381.
- Morshedi Nour, S., Maleki, M. and **Ghotbi, T. 2012**. Biological and molecular identification of *Tospovirus of Tomato spotted wilt virus*. TSWV on two Chrysanthemum cultivars in Mahalat. Plant Protection a Quarterly Publication of Islamic Azad University, Varamin-Pishva Branch. Vol. 1(4). 292-306.
- Morshedi, Sh., **Ghotbi, T.** and Zavareh, P. **2013**. First report of cucumber mosaic virus (CMV) in Nerium oleander from Iran. Plant disease. First look on line.
- Zavareh, N., Maleki, M., and **Ghotbi, T. 2013**. Serological and molecular detection of *Cucumber mosaic virus* from two main commercial anthurium cultivars in Iran. Annals of biological research. 4(4). 120-125.
- Morshedi, Sh., Maleki, M., and **Ghotbi, T. 2013**. Biological and Serological detection of TSWV on three commercial cultivars in *Chrysanthemum morifolium* in Markazi province of Iran. Annals of biological research. 4(4). 112-119.
- Morshedi, Sh., **Ghotbi, T.** and Maleki, M. **2013**. Occurrence of tomato spotted wilt virus on three commercial cultivars of *Chrysanthemum morifolium*: first report in Iran. Research on crops. 14(4). 1181-1189.
- Tajik, S., Maleki, M., **Ghotbi, T. 2013**. First report of tomato spotted wilt virus (TSWV) in Alstroemeria from Iran. Plant disease. First look on line.
- Hanan, N., Maleki, M. and **Ghotbi, T. 2013**. Biological and molecular detection of *Arabis mosaic virus* (ArMV) in four Chrysanthemum cultivars in Mahalat. Plant Protection a Quarterly Publication of Islamic Azad University, Varamin-Pishva Branch. Vol. 2(4). 303-312.
- Ghotbi, T. 2013**. Serological and Molecular detection of INSV and introduction of some INSV ornamental host plants from five provinces in Iran. Iranian Journal of the plant pathology. 49910. 131.
- Ghotbi, T.** and Shafiee M.R. **2015**. Using resistant cultivars to *Tomato spotted wilt virus* in disease management of Chrysanthemum (*Chrysanthemum morifolium*). Iranian Journal of Achievements in Agricultural Sciences. Vol. 1, No. 2, Pages: 169-182.
- Shahraeen N., **Ghotbi T.**, Haji Yousef T., Azadbakht N. and Bananej K. **2016**. An Overview of Viral Disease on Chickpea and Impact on Chickpea Production in Iran. International Journal of Current Research and Academic Review.
- Davoodi, R., Rasoli, M., **Ghotbi, T. 2018**. Investigating the effect of municipal flower and plant clinic trainings on creating a tendency for citizens to maintain urban green space. 2018. Agriculture and sustainable development Journal. No.70-71, Pages: 21-27.
- Ghotbi, T.**, Shahraeen, N. **2022**. Diagnosis of Important Virus Diseases of Ornamental *Anthurium* in Screen- Houses in Tehran Province.

### Conference papers:

-Shahraeen, N., Heydari, A., Naraghi, L., Farzadfar, Sh., **Ghotbi, T. 2000.** First report of occurrence of rhizomoniasis disease of sugarbeet in Semnon (Shahrood) province. 14<sup>th</sup> Iranian plant protection congress. Isfahan – Iran. 5-8 sept. 2000.

-**Ghotbi, T.** and Shahraeen, N. **2002.** Detection of Impatiens Necrotic spot virus (INSV-Tospovirus) in ornamentals of Mahallat and Tehran provinces. First Iranian congress on virology. page: 109.

-Shahraeen, N., Mehraban, A.H., Mostaed, M., **Ghotbi, T. 2002.** Report of Bean Common Mosaic necrosis virus (BCMV- potyvirus) infecting French bean in Arak and Lorestan provinces of Iran. 15<sup>th</sup> Iranian Plant Protection congress. Kermanshah – Iran. sept 2002.

-Mehraban, A.H., Shahraeen, N., **Ghotbi, T.**, Mostaed, B. **2002.** Screening of bean genotypes for resistance to NL5 strain of bean common Mosaic potyvirus. 15<sup>th</sup> Iranian plant protection congress, sept 2002.

-Mehraban, A.H., Shahraeen, N., **Ghotbi, T.**, Mostaed, B. **2002.** Identification of Bean common Mosaic virus (BCMV), Bean yellow mosaic virus (BYMV) and Cucumber mosaic virus (CMV) in Markazi and Lorestan provinces. 15<sup>th</sup> Iranian plant protection congress, sept 2002.

-**Ghotbi, T.**, Shahraeen, N. **2003.** Biological and serological comparison of tospoviruses isolated from ornamentals of Tehran and Markazi. 2<sup>nd</sup> Applied-Scientific seminar on flowers and ornamental plants 15-16 Oct. 2003. Mahallat-Iran. 37.

-**Ghotbi, T.**, Shahraeen, N., Bayat, H. **2003.** Host range studies of tospoviruses isolated from ornamentals in Markazi (Mahallat) province. 2<sup>nd</sup> Applied-Scientific seminar on flowers and ornamental plants 15-16 Oct. 2003. Mahallat-Iran. 39.

-Shahraeen, N., **Ghotbi, T. 2003.** Natural occurrence of different tospovirus species infecting ornamentals and other agricultural crops in Iran. International Congress of Plant Pathology (ICPP), 2-7 February 2003. Christchurch, New Zealand.

-**Ghotbi, T.**, Shahraeen, N. **2004.** Occurrence of *cucumber mosaic virus* (CMV) on *Lesianthus* from Varamin area. The First national festival and seminar on cut flowers. Tehran-Pakdasht. 6-7 Oct. 62.

-**Ghotbi, T.**, Baniameri, V. **2006.** Identification and determination of transmission ability of thrips species as vectors of two tospovirus, *tomato spotted wilt virus* (TSWV) and *impatiens necrotic spot virus* (INSV) on ornamental plants in Iran. Integrated control in protected crops, Mediterranean climate. IOBC/wprs Bulletin Vol. 29 (4). 297.

-Shahraeen, N., **Ghotbi, T.**, Kamrun, N., Salati, M., Rayatpanah, S., Azadbakht, S. **2006.** The status of oilseed rape viral diseases in Iran. 17<sup>th</sup> Iranian plant protection congress. 245.

-**Ghotbi, T.**, Shahraeen, N. **2008.** Incidence of nepoviruses in ornamentals in Markazi and Tehran provinces in Iran. The 12<sup>th</sup> international symposium on virus diseases on ornamental plants. 20-24 April. Haarlem, The Netherlands. 10.

-**Ghotbi, T.**, Shahraeen, N., and Vahid Hossein-nia. **2010.** Two new hosts of *Impatiens necrotic spot virus* (INSV) from Iran: *Phylodendron* spp. and *Pilea cadieri*. The 19<sup>th</sup> Iranian Plant Protection congress. Tehran – Iran .31 July-3 August 2010. 724.

-**Ghotbi, T.**, and Shahraeen, N. **2010.** Investigation on status of *Tomato yellow fruit ring virus* as a new emerging threat to cultivated crops in Iran. The 19<sup>th</sup> Iranian Plant Protection congress. Tehran – Iran .31 July-3 August 2010. 699.

-**Ghotbi, T.**, and Eskandari, M. **2010.** First report of incidence *Tomato spotted wilt virus* (TSWV) on *Asplenium ssp. scolopendrium* in Iran. Tehran – Iran .31 July-3 August 2010. 723.

-**Ghotbi, T.**, and Shahraeen, N. **2010.** Report of three ornamental hosts of *Tomato yellow ring tospovirus* (TYRV) from Iran. . Tehran – Iran .31 July-3 August 2010. 725.

- Ghotbi, T.**, and Nazerian, I. **2010**. Report on incidence of *Cucumber mosaic virus* (CMV) on ornamental Anthurium in Iran. Tehran – Iran .31 July-3 August 2010. 722.
- Ghotbi, T. 2010**. Introduce of some viruses infecting ornamental plant *salvia splendens* in Tehran province. National congress to improve and develop the market for flowers and ornamental plants in Iran. Sept 2010. 87.
- Ghotbi, T.**, and Talebi, H. **2010**. Detection and introduce of some viruses infecting ornamental plant *Alestromeria* spp. in Iran. National congress to improve and develop the market for flowers and ornamental plants in Iran. Sept 2010. 89.
- Ghotbi, T. 2010**. Report of *Cucumber mosaic virus* infecting ornamental plant *Phylodendron* spp. in Mazandaran province. National congress to improve and develop the market for flowers and ornamental plants in Iran. Sept 2010. 91.
- Zavareh, N., **Ghotbi, T.** and Maleki, M. **2012**. Detection and diagnosis of *cucumber mosaic virus* from *Anthurium* main commercial cultivars in Tehran province. Iranian congress of virology. 18-20 October 2013. Tarbiyat modares university. Tehran-Iran.
- Tajik, S., **Ghotbi, T.** and Maleki, M., **2012**. Production of TSWV-Free Whit Queen Alstroemeria cultivar by tissue culture method. 3<sup>rd</sup> Iranian agricultural biotechnology congress. 3-5 september 2012. Ferdowsi university of Mashad.
- Ghotbi, T. 2012**. Croton as a new host of *Impatiens necrotic spot tospovirus* from Tehran. 20<sup>th</sup> Iranian plant protection congress, 25-28 August 2012. Shiraz-Iran. 777.
- Ghotbi, T. 2012**. First report of *Impatiens necrotic spot virus* (INSV) infection on Ginjer medicinal plant in Iran. 20<sup>th</sup> Iranian plant protection congress, 25-28 August 2012. Shiraz-Iran. 784.
- Ghotbi, T.** and Shahraeen, N. **2012**. First report of *Tomato ring spot virus* (ToRSV) from some ornamental plants from Guilan and Mazandaran provinces. 20<sup>th</sup> Iranian plant protection congress, 25-28 August 2012. Shiraz-Iran. 784.
- Tajik, S., **Ghotbi, T.** and Maleki, M. **2012**. *Tomato spotted wilt virus* (TSWV) detection on main cultivars of Alstroemria ornamental plant in Tehran province. 20<sup>th</sup> Iranian plant protection congress, 25-28 August 2012. Shiraz-Iran. 834.
- Morshedi Sh., Maleki M. and **Ghotbi T. 2012**. Introduction of one breeding and four commercial *Chrysanthemum* cultivars as *Tomato Spotted Wilt tospovirus* hosts from Mahallat. 20<sup>th</sup> Iranian plant protection congress, 25-28 August 2012. Shiraz-Iran. 816.
- Ghotbi, T.**, Shahraeen, N., and Alae, A. **2016**. Occurrence of *Dasheen mosaic virus* on Anthurium ornamental plant in Iran. National Conference on Applied research in agriculture and natural resources. Karaj.
- Haji Yousef, T., Shahraeen, N., and **Ghotbi, T. 2016**. Biological and serological detection of *Pea seed borne mosaic virus* in lentil. National Conference on Applied research in agriculture and natural resources. Karaj.
- Alae, A., **Ghotbi, T.**, and Shahraeen, N. **2016**. Use of micropropagation technique in production of Anthurium free of *cucumber mosaic virus*. National Conference on Applied research in agriculture and natural resources. Karaj.
- Ghotbi, T.**, Shahraeen, N. and Biramzadeh, E. and Nazerian E. **2020**. Evaluation of Ornamental Anthorium cultiva rs reaction to *Cucumber Mosaic Virus*-CMV in green house condition. XI International Agriculture Symposium “Agrosym 2020”. Bosnia and Herzegovina.
- Ghotbi, T.**, Shahraeen, N., Safarnejad M.R., Nazerian E. and Vahid Hosseinnia, S. **2022**. Status of two damaging Orthotospovirus TSWV and INSV on Lettuce production in IRAN. XI International Agriculture Symposium “Agrosym 2020”. Bosnia and Herzegovina.
- Ghotbi, T.**, Shahraeen, N. **2022**. Report of important viruses infecting ornamental Anthurium in Tehran province of Iran. XI International Agriculture Symposium “Agrosym 2020”. Bosnia and Herzegovina.

-Morowati, M, Sheikhi Garjan, A., **Ghotbi T. 2022.** Investigation on the residue levels of the insecticides imidacloprid and thiamethoxam after seed treatment in lettuce. "9<sup>th</sup> International Conference on Food Industry Sciences, Organic Farming and Food Security" in the Georgia.

### **Books:**

-Shahraeen, N., **Ghotbi, T. 2000.** Index (data with short summery) of plant viruses research articles published during 1966 to 1998 in Iran. Agricultural extension service publication. Ministry of Jihad – E- Agriculture. 160PP. (in persian)

-Shahraeen, N., **Ghotbi, T. 2001.** Tomato spotted wilt virus (TSWV). Technical Bulletin. Agricultural extension service publication series. 2001 (in persian). 17PP

-**Ghotbi, T.,** Bananej, K. **2016.** dentification and management of Bananas viral diseases. Ministry of Jihad–e-Agriculture, Agricultural Research, Education & Extension Organization, Iranian Research Institute of Plant Protection. Magazine extension: 48716

-**Ghotbi, T.** and Shahraeen, N. **2016.** Mnagement of seed borne *Bean common mosaic* viral disease. Ministry of Jihad–e-Agriculture, Agricultural Research, Education & Extension Organization, Iranian Research Institute of Plant Protection. Applied Instruction: 50690

-**Ghotbi, T.,** Sheikhi Gorjani, A. and safarnejad, M.R. **2017.** Management of TSWV damaging virus and its vectors in lettuce. Ministry of Jihad–e-Agriculture, Agricultural Research, Education & Extension Organization, Iranian Research Institute of Plant Protection. Applied Instruction: 54584

-Shahraeen, N., **Ghotbi, T.,** Azadbakht, N, Arbabi, M. Shfaghi, A., Mosavi., S.K. **2020.** Common Bean Pathology: 56631.

-**Ghotbi, T. 2021.** Detection and control of *Impatiens necrotic spot virus* (INSV) on ornamentals. Ministry of Jihad–e-Agriculture, Agricultural Research, Education & Extension Organization, Iranian Research Institute of Plant Protection. Applied Instruction: 61003.

-**Ghotbi, T. 2021.** Management of important viral disease on Anthorium. Ministry of Jihad–e-Agriculture, Agricultural Research, Education & Extension Organization, Iranian Research Institute of Plant Protection. Applied Instruction: 60436.

### **Lectures:**

-Main viral disease of Banana. 2006. Iranian Research of Plant Proction.

-Status of Ornamental viral diseases in Iran. 2013. Iranian Research of Plant Proction.

-Main viral disease of Ornamentals. 2021. Iranian Research of Plant Proction.

### **Advisor of Master science Thesis:**

-Detection of some biological and molecular characteristics of CMV from Anthurium in Pakdasht County. Zavareh, N. **2013.** Varamin Azad University, Pishva. Plant protection group.

-Biological compare and molecular detection of TSWV isolates from some Chrysanthemum morifulim cultivars in Iran. Morshedi Nour, Sh. **2013.** Varamin Azad University, Pishva. Plant protection group.

-Detection of main tospovius-TSWV in Alestroemeria ornamental plant and its eradication by tissue culture method. Tajik, S. **2013.** Varamin Azad University, Pishva. Plant protection group.

-The effect of specialized training of ornamental clinics of Tehran Municipality for maintenance of urban green space. (Case study of a regional council). Davoodi, R. **2014.** Varamin Azad University, Pishva. Extension group.

-Using micropropagation method for production of CMV virus free ornamental Antorium. Alae, A. **2016.** Mehregan Institute of higher Education Faculty of Agriculture.