



NOOH SHAHRAEEN

Address: Plant Virus Research Department, Iranian Research Institute of Plant Protection (IRIPP), Agricultural Research Education and Extension Organization (AREEO), Tehran, Iran.

P.O. Box 1454, Tehran 19395, Iran

Telephone Number: +98 21 22403012-16 (Ext. office-3013)

Mobile Number: +98 9126126658

E-mail Addresses:

shahraeennoah@gmail.com

shahraeen@yahoo.com

shahraein@iripp.ir

URL:

Google Scholar: <https://scholar.google.com/citations?user=W-ua IEAAAAJ&hl=en>

Linked in: <https://www.linkedin.com/in/nooh-shahraeen>

Orcid: <https://orcid.org/0000-0002-8631-8233>

EDUCATION

1985-1990 Ph.D. Plant Pathology (Plant Virology) with Honors, Marathwada Agricultural University (MAU), Parbhani, India.

1983-1985 M.Sc. Plant Pathology, MAU, Parbhani, India.

1979-1982 B.Sc. Agricultural Science, MAU, Parbhani, India.

RESEARCH INTEREST

My main research activity is characterization of viral diseases, which includes detection, diagnosis/ host-pathogen interaction study of plant viruses with emphasis on viral diseases of oilseeds (soybean, canola), legumes (*Phaseolus* bean/chickpea/lentil). Co-operation in other specified projects. Applying routine and recent methodologies (biological/ serology, TEM/IEM and PCR techniques). Part-time teaching and training plant virology students.

PROFESSIONAL WORK EXPERIENCE

1995-Present Scientific board member of AREEO. Agricultural Research. Ext. and Education Organization. Ministry of J. Agriculture, Tehran Iran

ACADEMIC APPOINTMENTS

- 2019** Professor, Plant Virology (IRIPP)
2003 Associate Professor, Plant Virology (IRIPP)
1995 Assistant Professor, Plant virology (IRIPP)
1991 Researcher-Iranian Research Institute for Plant Protection-IRIP- to present
1997-2008 Head, plant virus research department, IRIPP (Iranian Res. Institute of Plant Protection)

HONORS AND AWARDS

Research Acknowledgment

- 2015** H- For preparation of self-reliance Economic Plan of Institute (IRIPP) for grain-legumes In The field of plant protection
2013 H- For the developments of plant protection research in the country

BOOKS

2020

Nooh Shahraeen and Nader Azadbakht (2020). Common Bean Agronomy and Plant Protection Managements (in Persian). pages 173. Daneshyaran Farda Publ. Khooram abad, Iran.

2000

Nooh Shahraeen and Reza Pourrahim (2000). Plant Protection: (MCQs- Choice questionnaire and descriptive answers for undergraduate and graduate associate exams (In Persian). (2000).179 pages. Dibagaran Publ. Tehran.

Nooh Shahraeen and Reza Pourrahim (2000). Mycology and Plant Pathology: (MCQs- Choice questionnaire and descriptive answers for graduate associate exams (In Persian). (2000).256 pages. Dibagaran Publ. Tehran.

Nooh Shahraeen and Tabassom Ghotbi (2000). Collection of titles and abstracts of articles on plant viral diseases of Iran in the years 1966-1998. Published by extension office Agricultural Research, Education & Extension Organization (AREEO), Tehran, Iran. Pages 178.

Hand-books (Authorship and Co-Author)

2021

Nooh Shahraeen et al. (2021). Chickpea Plant Protection Manual Hand-book (in Persian). Agricultural Research, Education & Extension Organization (AREEO), Tehran, Iran. Pages 130.

Nooh Shahraeen et al. (under publication-2021). Soybean Plant Protection Manual Hand-book (in Persian). Agricultural Research, Education & Extension Organization (AREEO), Tehran, Iran. Pages

2020

Nooh Shahraeen et al. (2020). Bean Plant Protection Manual Hand-book (in Persian). Agricultural Research, Education & Extension Organization (AREEO), Tehran, Iran. Pages 145.

Peer Reviewed Articles

2022

Tabassom Ghotbi and **Shahraeen Nooh** (2022). Diagnosis of important virus diseases of ornamental Anthurium in screen-houses in Tehran province. Int J Med Phar Sci. Vol 12 (5):1-6.

Shameli S and **Shahraeen N** (2022). New hosts for the *arabis mosaic virus* in Iran. Iranian journal oil seed plants (in Persian-<http://ijop.areeo.ac.ir>) vol. 3 (2),93-98.

2021

Hamideh Mardani-Mehrabad, Farshad Rakhshandehroo, Samira Shahbazi & **Nooh Shahraeen** (2021). Enhanced tolerance to seed-borne infection of bean common mosaic virus in salicylic acid treated bean plant. Archives of phytopathology and Plant Protection. Vol.54: No 7-8,388-410. DOI: 10.1080/03235408.2020.1834320

2019

Taraneh Moslem Gheslghi, **Nooh Shahraeen** & Farshad Rakhshandehroo (2019). Serological and molecular characteristics of *pea seed borne mosaic virus*-PSbMV from lentil (*Lens culinaris Medik L.*) in Iran. Archives of phytopathology and Plant Protection. Vol.52: No 9-10,873-883. <https://doi.org/10.1080/03235408.2019.1661759>

Rakhshandehroo Farshad, Mardani-Mehrabad Hamideh, Shahbazi Samira and **Shahraeen Nooh** (2019). Study on the effect of low doses of gamma irradiation alone or in associated with the salicylic acid and indirect temperature on seed borne infection of Bean common mosaic virus in bean plant . Journal of Applied Entomology and Phytopathology, Vol.87 (1) 87-105. DOI: 10.22092/jaep.2019.124059.1251

2018

Gholnaraghi, A., **Shahraeen N.** and Nguyen, H.D (2018). Characterization and genetic structure of a tospovirus causing chlorotic ring spot and chlorosis disease on Peanuts; Comparison with Iranian and Polish population of *Tomato yellow fruit ring virus*. Plant Disease, 102 (8) 1509-1519. (<https://doi.org/10.1094/PDIS-09-17-1350-RE>)

Rakhshandehroo, F., Samaneh S. Hashemi and **Shahraeen, N** (2018). Phylogenetic analysis and genetic structure of new isolates of *Tomato mosaic virus* in Iran. Journal of plant protection research, 58 (1) 25-35.

2017

Tara hajijusef, **Nooh Shahraeen** and Mojdeh Maleki (2017). Serological and Molecular detection of *bean leaf roll* and *chickpea chlorotic stunt* luteoviruses in chickpea from Iran. Journal of plant protection research, 57 (2) 136-143. (DOI:10.1515/jppr2017-0018).

2016

Shahraeen Nooh, Ghotbi Tabassom, Haji Yousef Tara, Azadbakht Nader and Bananej Kaveh (2016). An Overview of viral disease on chickpea and impact on chickpea production in Iran. *Int.J.Curr.Res.Aca.Rev.*4(4): 98-109. <http://dx.doi.org/10.20546/ijcrar.2016.404.012>.

2014

Farahani A.A., Rakhshandehroo, F and **Shahraeen, N** (2014). First report of *Tobacco mosaic virus* infecting cabbage in Iran. Journal of Plant Pathology, Vol.36, No.4S
Hashemi, S.S; Rakhshandehroo, F and **Shahraeen ,N.** (2014). First report of *Tomato mosaic virus* on Common Sow Thistle in Iran. Plant Disease 98(6)-1164.

Musavi.M, **Shahraeen N.**, Azizy A., Salari N (2014). Serological and Molecular properties of isolates of *Bean common mosaic virus*-BCMV from Khorasan Razavi province. Archives of Phytopathology and Plant Protection. 47 (7):830-841.

2013

Javanmardi ,S., Ghasemi,S and **Shahraeen,N** (2013). Reaction of some cowpea genotypes (*Vigna sinensis*) to *Bean common mosaic virus* under green-house condition. Plant protection journal (Islamic Azad University,Shiraz Branch).Vol.6(2),1323-148.

Ghaderi,M., **Shahraeen.N** and Rakhshandehroo.F (2013).Biological and phylogenetical study of *Cauliflower mosaic virus* on Canola in Iran. Iranian Journal of Plant Pathology. 49(1):93-99

Salari,S .,**Shahraeen,N** and Maleki,M(2013). Some serological and molecular characteristics of *Bean common mosaic necrosis virus*-BCMNV isolates in Iran. Iranian Journal of Applied Plant Protection. Vol. 2 :(2),135-144.

Salari,S ., Mousavi,M., **Shahraeen,N.**,Ghorbani,S and Maleki,M(2013). Identification and diagnosis of isolates of *Bean common mosaic virus* and *Bean common mosaic necrosis virus* by immunocapture RT-PCR. New Cellular and Molecular Biotechnology Journal (NCMBJ) 3 (11);21-28.

2012

Asghari, S. and **Shahraeen, N.** (2012). Serological and Molecular identification of two potyviruses infecting common bean (Chitti) in Mazandaran province. Iranian Journal of Applied Plant Protection Vol. 1 (1) 35-43

Beyzaei, E.H.R. Dorri, A.A. Ghanbari, H. Gaffari Khaligh, A. Rahmani Ghobadi, M. Taheri Mazandarani, **Shahraeen, N.** Yousefi, M. (2012). SADRI, A New Large Seed Chiti bean cultivar suitable for cultivation in temperate- cold areas of Iran. Seed and Plant Improvement Journal. 2012; 28 (2) :335-337.<http://spij.spii.ir/browse.php>

Dorri, H.R.E. Beizaie, A.A. Ghanbari, B. Assadi, H. Gaffari Khaligh, **Shahraeen, N.** Yousefi, M.M. Dadivar, Lak, M. R. Hassani Mehraban, A. (2012). DORSA, A new White bean cultivar, tolerant to tow spotted spider mite, for cultivation in temperate - cold areas of Iran. Seed and Plant Improvement Journal. 28(1):155-157. <http://spij.spii.ir/browse.php>.

Ghotbi,T and **Shahraeen, N** (2012).Incidence and distribution of viruses infecting propagated ornamentals in Northern Iran. International Research Journal of Microbiology. 3 (1):373-381.

Shahraeen. N (2012). An Overview of oilseed rape (canola) virus diseases in Iran.. International Research Journal of Microbiology. 3 (1):24-28

2011

Dizadji, A. and **Shahraeen,N** (2011). Occurrence, distribution and seasonal changes of viruses infecting common bean in northern Iran. Archives of Phytopathology and Plant Protection. 44 (17):1647-1654

Hydari, F., **Shahraeen, N** and Maleki, M (2011). Biological, serological and molecular identification of *cucumber mosaic virus* from chickpea fields in Kermanshah province. Iranian Journal of Applied Plant Protection. Vol 1: (3) ,211-221.

2010

Asghari, G. Somayeh, **Shahraeen, N.** Ghorbani, S. and Hosseinia, S. (2010). Identification of *Faba bean necrotic yellows virus* from Faba bean in Mazandaran province. Indian Journal of Virology. Vol. 20 (1). S-23.

Ghorbani, S.G.M., **Shahraeen, N.** and Elahinia, A (2010). Distribution and impact of virus associated diseases of common bean (*Phaseolus vulgaris*) in Northern Iran. Archives of Phytopathology and Plant Protection. Vol.43:(12)1183-1189

Shahraeen, N (2010). Electron microscopy, Application of routine methods in plant virology. Journal of Ziestfan (Bimonthly-in Persian). 2:4-6.

Taheri Mazandarani M., E. Beyzaei, Dorri H. R., A. A. Ghanbari, P. Salehi, G. Taheriyoon, R. Mohammadkhani, **N. Shahraeen**, A. Hassani Mehraban. (2010). PAK, A new White bean cultivar suitable for mechanized harvesting. Seed and Plant Improvement Journal. 2010; 26 (1) :144-146. URL http://spij.spii.ir/browse.php?a_code=A-10-2-21&slc_lang=en&sid=1

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2009

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Ahangaran, A. Mosahebi, Gh. Koochi Habibi, M. Khezri, S. and **Shahraeen, N.** (2009). The use of rapid serological and nucleic acid-based methods for detecting the *soybean mosaic virus*. J.Agric.Sci.Technol. (JAST) Vol.11:91-97.

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Tavasoli, M., **Shahraeen, N** and Ghorbani, Sh. (2009). Serological and RT-PCR detection of *Cowpea mild mottle carlavirus* infecting soybean. Journal of General and Molecular Virology Vol.1 (1), 7-11

2008

Tavasoli, M., **Shahraeen, N** and Ghorbani, Sh. (2008). Detection and some properties of *Cowpea mild mottle virus* isolated from soybean in Iran. Pakistan Journal of Biological Sciences. 11 (23):2624-2628.

Elahinia S.A., **Shahraeen N.**, Mohammad Alipour H.R., Nicknejad M. and Pedramfar H (2008). Identification and determination of some properties of *Peanut mottle virus* using biological and serological methods in Guilan province. Journal of Agricultural Science Vol 1 (10)11-21

Ghorbani, S.G.M., **Shahraeen, N.** and Elahinia, A (2008). Serodiagnosis of cowpea (*Vigna unguiculata*) viruses in Guilan province, Iran. Iranian Journal of Virology Vol :1 (3) 28-32

Shahraeen, N., D.E.Lesemann and Ghotbi, T. (2008). Survey for viruses infecting Onion, Garlic and leek crops in Iran. EPPO Bulletin 38 ,131-135.

Ahangaran, A. Mosahebi, Gh. Koochi Habibi, M. **Shahraeen, N.** and Khezri, S. (2008). Identification of strains of *soybean mosaic virus-SMV* from Mazandran and Golestan province. Iranian Journal of Agricultural Sciences. 39 (10): 99-105

2007

Golnaraghi, A.R., Pourrahim, R., Farzadfar, Sh. Ohshima Kazusato., **Shahraeen, N.**, and Ahoonmanesh, A (2007). Incidence and distribution of *tomato fruit ring virus* on soybean in Iran. Plant Pathology Journal. 6 (1) 14-21.

2006

Ahangaran, A. Mosahebi, Gh. Koochi Habibi, M. **Shahraeen, N.** and Khezri, S. (2006). Rapid diagnosis of *soybean mosaic virus* by tissue blot immunoassay and DIBA in comparison to other serological method. Comm.in Agril. and Appl. Biol.Sciences. Vol.71, 1207-1212.

Ghorbani, S; **Shahraeen, N**; Dehghanyar, H; Sahandi, A and Pourrahim, R (2006). Serodiagnosis and purification of *turnip mosaic virus* isolated from oilseed rape. Iranian Journal of Biology vol. 20 (1), 61-70

Winter, S . **Shahraeen, N.**, Koerbler, M and Lesemann, D.E (2006). Characterization of Tomato fruit yellow ring virus: a new tospovirus species infecting tomato in Iran. Plant Pathology. 55, 287.

2005

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Sahandi, A ., **Shahraeen, N**; Ghorbani, Sh and Pourrahim, R (2005). Identification and studies of some biological and serological properties of *Cauliflower mosaic virus* (CaMV) isolated from oilseed rape from West Azarbaijan province. Journal of Agriculture Science. Vol. 1 (5) 101-112

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Shahraeen, N., Ghotbi, T., E.Dezaji, A and Sahandi, A (2005). A survey of viruses affecting French bean (*Phaseolus vulgaris*) in Iran Includes a first report of *Southern bean mosaic* and *bean pod mottle virus*. Plant Dis. 89: 1012

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Golnaraghi, A.R., **Shahraeen, N.**, Pourrahim, R., Farzadfar, Sh. and Ghasemi, A (2004). Occurrence and relative incidence of viruses infecting soybeans in Iran. Plant Disease. 88:1069-1074.

2003

Ghotbi, T., Gillasian, E. and **Shahraeen, N** (2003). Detection of tospoviruses in individual thrips by ELISA from ornamental plants in Tehran and Markazi provinces. Iran J. Appl. Ento. and Phytopath. Vol:70 (2), 138-139.

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Pourrahim, R., Farzadfar, Sh., Golnaraghi, A. R. and **Shahraeen, N.** (2003). First report of *papaya ring spot virus* on papaya in Iran. Plant Disease 87(9) 1148.

Shahraeen, N. Farzadfar.S and Lesemann, D.E (2003). Incidence of viruses infecting winter oilseed rape (*Brassica napus* ssp. *olifera*) in Iran. Journal of Phytopathology 151, 614-616

2002

Golnaraghi, A.R., Pourrahim, R. **Shahraeen, N.**,and Farzadfar, Sh. (2002c). First report of *Groundnut bud necrosis virus* from Iran. Plant Disease 86 (5) 561.

Golnaraghi, A.R., **Shahraeen, N.**, Pourrahim, R., Farzadfar, Sh. and Ghasemi, A. (2002e). First report of natural occurrence of eight viruses affecting soybeans in Iran. Plant Pathology, Vol. 51(6) 794.

Farzadfar, Sh., Pourrahim, R., Golnaraghi, A.R. and **Shahraeen, N.** (2002a). First report of *Beet soil-borne Pomovirus* on sugar beets in Iran. Plant Disease, 86 (2) 187.

Farzadfar, Sh., Pourrahim, R., Golnaraghi, A.R., **Shahraeen, N.** and Makkouk, K.M. (2002c). First report of sugar beet and beans as natural hosts of *Chickpea chlorotic dwarf virus* in Iran. Plant Pathology, Vol: 51(6) 795.

Makkouk, K. M., Kumari, S. G. **Shahraeen, N.**, Fazlali, X., Farzadfar, Sh. Ghotbi, T. and Mansouri, A (2002). Identification and seasonal variation of viral diseases of chickpea and lentil in Iran. Journal of Plant Disease and Protection. 110 (2) 157-169

Shahraeen, N., Ghotbi, T., Mehraban, A.H. (2002) Occurrence of *Impatiens necrotic spot virus* in ornamentals in Mahallat and Tehran provinces in Iran. (2002). Plant Dis. 86:(6) 694.

2001

Golnaraghi, A.R., **Shahraeen, N.**, Pourrahim, R., Ghorbani, Sh. and Farzadfar, Sh. (2001b). First Report of *Tomato spotted wilt virus* on Soybeans in Iran. Plant Diseases 85 (12) 1290.

Golnaraghi, A.R., **Shahraeen, N.**, Pourrahim, R., Ghorbani, Sh. and Farzadfar, Sh. (2001a). First report of a *Tospovirus* infection of peanuts in Iran. Plant Disease 85 (12) 1286.

Pourrahim, R., Farzadfar, Sh., Moini, A.A., **Shahraeen, N.** and Ahoonmanesh, A. (2001b). First report of *Tomato spotted wilt virus* (TSWV) on potatoes in Iran. Plant Disease. 85 (4) 442.

Shahraeen, N. Farzadfar, Sh., Kamrun, R., Naseri, B (2001). Occurrence of viral diseases of oil seed rape plant (canola) in Iran. Iran J. Appl. Ent. And phytopath. Vol. 69 (2),189- 190.

2000

Salimi,H.and **Shahraeen,N.** (2000). A study on comparison of seed dormancy and germination in three species of Dodder. Rostaniha (Botanical J. of Iran) vol.1,87-101.

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1989

Shahraeen,N. (1989). Studies on a virus causing mosaic diseases of soybean (cv. MACS-13). Indian Phytopathology, Vol: 42, 338.

1988

Shahraeen,N;Bananej,K; Ahoonmanesh, A and Lesemann, D-E. (1988). Identification of three elongated viruses from *Allium* species (onion and garlic) in Tehran Province. Iran J. Plant Path. Vol:34,37-38.

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Bananej, K. **Shahraeen, N.** Ahoonmanesh, A. Lesemann, D.E. Shahreyare, D. (1998). Identification of *tomato spotted wilt virus* from tomato fields in Varamin. Iranian J. Plant Path. Vol: 34,18-26.

1997

Hashemi,H; **Shahraeen,N.** and Damonski,N. (1997). Expression of potato virus X (PVX) coat protein gene in transgenic potato. Iran J. Appl. Ento. and Phythopath. Vol:65:(3-4),1-16.

1996

Shahraeen,N. and Bananaj,K.(1996). Occurrence of *peanut mottle virus* in Gorgan Province. Iran J.Plant Path.Vol: 32, (1-2)21.

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1993

Elahinia,S.A., **Shahraeen,N.** and Choobeh, R.(1993). Association of rod-shaped flexuous virus particles with vinal necrosis of tobacco. Iran J. Plant Path. Vol:65, (3-4),120.

Conference Proceedings

2020

Ghotbi Tabassom and **Nooh Shahraeen** (2020). Report of important viruses infecting ornamental Anthurium in Tehran province of Iran. XI International Scientific Agricultural Symposium Agrosympo. October 08-09, 2020, Bosnia and Herzegovina. p 239.

Ghotbi Tabassom and **Nooh Shahraeen,** Mohammadreza Safarnejad, Eisa Nazerian and Sahar Vahid Hosseinnia (2020). Status of two damaging Orthotospovirus TSWV and INSV on lettuce production in

Iran. XI International Scientific Agricultural Symposium Agrosympo. October 08-09, 2020, Bosnia and Herzegovina. p 238.

Ghotbi Tabassom and **Nooh Shahraeen**, Ebrahim Biramzadeh and Eisa Nazerian (2020). Evaluation of ornamental Anthurium cultivar's reaction to *Cucumber mosaic virus*-CMV in Green-house condition. XI International Scientific Agricultural Symposium Agrosympo. October 08-09, 2020, Bosnia and Herzegovina. p 237.

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Mardani Mehrabad ,H., Rakhshandehroo ,F., **Shahraeen ,N.**, Shahbazi, S (2015). Studies on importance of Gamma and UV irradiation for control of seed born plant viruses. The 4th National Congress on Nuclear Technology Application in Agricultural & Natural Resource Sciences (19-20 May, 2015, Nuclear Agriculture Research School-Karaj,Iran.)

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Shahraeen,N.,Azadbakht N, and Younessi, H (2012). Reports on Food legume virus diseases in Iran and evaluations of control measure. Abstracts of the 4th Iranian pulses crop symposium. 8-9 Feb-2012, Arak University, Iran, p81.Iran

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Ghotbi, T and **Shahraeen N** (2010). Report of three ornamental hosts of *Tomato yellow ring tospovirus* (TYRV) from Iran. 19th Iranian plant protection congress, 31 July-3 August- IRIPP,Tehran.

Ghotbi, T., **Shahraeen N** and Hossein nia S. Vahid (2010). Two new host of *Impatiens necrotic spot virus* (INSV) from Iran : *Philodendron* spp. and *Pilea cadieri* . 19th Iranian plant protection congress, 31 July-3 August- IRIPP,Tehran.

Saidi,A., **Shahraeen,N** and Azizi,A (2010).Simultaneous detection of two bean RNA viruses by Multiplex Reverse Transcription Polymerase Chain Reaction. 11th International Plant Virus Epidemiology Symposium and 3red Workshop of the Plant Virus Ecology Network.,June 20-24, Cornell University, Ithaca, NY.

Shahraeen.N,Ghaderi Maryam, S and Rakhshandehroo.F (2010). Sequence comparison of *Cauliflower mosaic virus* isolates infecting Canola in Iran. 11th International Plant Virus Epidemiology Symposium and 3red Workshop of the Plant Virus Ecology Network., June 20-24, Cornell University, Ithaca, NY.

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Shahraeen, N., Babaie, Gh and Fattahi , S (2010). Study on status and distribution of virus diseases infecting French bean in Chaharmahal va Bakhtiari province. 19th Iranian plant protection congress, 31 July-3 August- IRIPP,Tehran.

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Ghaderi, M., **Shahraeen.N** and Rakhshandehroo.F (2009). Serological and molecular identification of *Cauliflower mosaic virus* (CaMV) on Canola. 5th Iranian Congress of Virology and 1st Congress of Vaccine. Razi Vaccine and Serum Research Institute. 12-14 May,2009-Karaj-Iran.

Ghaderi,M., **Shahraeen.N** and Rakhshandehroo.F (2009). Identification and study of some properties of *Cauliflower mosaic virus* isolates infecting canola Plants. Biotechnology Congress, 7-8-Oct.2009, Karaj-Iran

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Editorial board member

2012

Applied Plant Protection Journal. Official publication of Islamic Azad University-IAU of Varamin Pishva Branch. Tehran- Iran (2012-present).

Thesis Supervisor / Adviser

MSc. and Ph.D Thesis Supervisor/Adviser = 30 students

Scientific society life membership

Iranian virological society-IVS

Indian virological society-IVS

Iranian Society of Biology-ISB

2001-2005

Active member, European Association for Grain Legume Research

Plant virus sequences -GenBank submission

Plant viruses sequence data submitted /Published with accession numbers to GenBank-NCBI = 16

TEACHING

2003-2005

Plant virology M.SC. Course, Islamic Azad University Hisarak, Tehran

2004

Practical Electron Microscopy course, Shahid Beheshti University, Science College, Tehran

Invention / Patent Certificate

2009

The process of producing polyvalent antiserum against *Cauliflower Mosaic virus* (Patent entry no: 58868-State registration. dept. of Deeds & RS)

Turnip Mosaic virus-TuMV polyclonal antiserum production process (Patent entry no: 58909-State registration. dept. of Deeds and Real States)