

CURRICULUM VITAE

Family Name: Pourrahin **Given Name:** Reza

Date and Place of Birth: 1968, Tabriz, Iran

Profession: Research Associate Professor

Professional Address: Iranian Research Institute of Plant Protection (IRIPP)

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EDUCATION

1995-2000,. Ph. D. Plant Pathology, Islamic Azad University.

Thesis title: Study on Cloning and Expression of Potato Virus Y Coat Protein Gene in *Nicotiana tabacum* cv. Samsun for Understanding Resistance Mechanisms.

1992-1994,. M. Sc. Plant Pathology, Tehran University,

Thesis title: Identification and some properties of Tomato and Tobacco mosaic viruses in Iran.

1988-1991,. B.Sc. Plant Protection, Tabriz University.

1987, Diploma in biological science, Tabriz, Rezaei High School.

RESEARCH INTEREST

Main activity on detection and diagnosis of plant viral diseases with emphasis on viral diseases of potato and grapevine, using serological and PCR based methods. Molecular characterization of plant viruses as well as viral gene cloning and plant transformation.

Part - time teaching and training students in M.Sc. and Ph.D. graduate level.

EXPERIENCE

Directory Works:

Deputy Director of Department of Plant Virology since 2003 till now.

Member of Seed Potato Technical Committee of Ministry of Agriculture, Iran.

Contribution to workshops and training courses:

1- Director and lecturer in workshop on techniques for evaluating of seed potato health. Plant virology Dept. in Plant Pests and Diseases Research Institute (PPDRI), 1998 Tehran, Iran.

2- Lecturer in workshop on potato transformation. National Research Center for Genetic Engineering and Biotechnology (NRCGEB). 26-31 October 2002, Tehran, Iran.

- 3- Introduction to ELISA technique and its application in diagnosis of potato viruses. Plant Pests and Diseases Research Institute (PPDRI), 2-3 November 2002, Tehran, Iran.
- 4- Lecturer in workshop on biotechnology and industrial enzymes. Gostaresh Center for Research and Development, dependent on Industrial Development and Renovation Organization of Iran, 2002, Tehran, Iran.
- 5- Lecturer in workshop on pests and diseases of potato. Hamedan Agricultural education, 28 October 2002, Hamedan, Iran.
- 6- Lecturer in workshop on important potato virus diseases. Semnan Agricultural Organization, 8 and 9 May 2002, Semnan, Iran.
- 7- Lecturer in workshop on approaches for healthy seed potato production. Plant Pests and Diseases Research Institute (PPDRI), 19 August 2002, Tehran, Iran.
- 8- Deputy director and lecturer in workshop on Modern Techniques for Diagnosis of plant viruses. A international joint workshop between Plant Pests and Diseases Research Institute (PPDRI) of Iran with INRA and CNRS from France, 17-19 July 2004, Tehran, Iran.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

- 1- Application and development of ELISA and DBIA techniques for detection of important viral diseases of potato (PVX, PVY, PLRV, AMV):** Project No. 107-11-75-062 (1996-1997). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.
- 2- A study on potato virus Y strains in Iran:** Project No. 107-11-76-136 (1997-1998). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.
- 3- Characterization of biological and serological properties of Alfalfa mosaic virus Isolates: the casual agent of potato calico and tuber necrosis in Hamedan and Tehran provinces of Iran:** Project No. 107-11-79-077 (2000-2001). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.
- 4- Identification of natural vector(s) of Eggplant mottled dwarf virus in potato field:** Project No. 100-11-80-052 (2001-2002). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.
- 5- Cloning and partial sequencing of Eggplant mottled dwarf virus isolate from potato:** Project No. 107-11-80-106 (2001-2002). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.
- 6- Possible involvement of viral/viroidal agents in dry bunch disorder of date palm:** Project No. 100-11-80-037 (2001-2002). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

7- Identification of grapevine viruses in Iran: Project No. 107- 1- 81-064 (2002-2003). Plant Virology Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

8- Identification of Beet necrotic yellow vein virus type(s) in Iran: Project No.107-11-80-062 (2001-2002). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

9-Vector control of potato virus diseases using root absorbing pesticides. Project No. 0-100-10000-00-0000-80030 (2001-2003). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

10-Detection and distribution of sugar beet infecting Luteoviruses in Iran. Project No. 2-009-100000-11-0000-83048-(2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

11-Detection and distribution of Curtovirus species causal of beet curly top disease in Iran. Project No. 2-009-100000-11-0000-83049-(2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

12-Detection and distribution of sugar beet infecting Closteroviruses in Iran. Project No. 2-009-100000-11-0000-83050-(2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

13-Identification and characterization of Potato spindle tuber viroid (PSTVd) in Iran. Project No. 2-107-110000-00-0000-82062- (2003-2005). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

14-Characterization of Potato leaf roll virus isolates in Iran. Project No. 2-009-100000-11-0000-83055- (2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

15-Characterization of Potato infecting Carlaviruses in Iran. Project No. 2-009-100000-11-0000-83060- (2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

16-Properties of Iranian strains of Potato virus Y. Project No. 2-009-100000-11-0000-83054-(2004-2006). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

17- Molecular properties of Iranian isolates of Grapevine leaf roll associated virus 3. Project No. 2-009-100000-11-0000-83063- (2004-2007). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

18-Evaluation of aphid populations in seed potato fields and their relation with incidence of aphid borne Potato virus Y. Project No. 2-16-16-86122. (2007-2009). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

19-Eradication of two Nepoviruses (ArMV and GFLV) from two Iranian grapevine cultivars (Yagoti and Soltani) using tissue culture. Project No. 47-16-16-88059- (2009-2012). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

20-Determination of genetic variation among Iranian isolates of Prunus necrotic ring spot virus. Project No. 2-16-16-92196- (2013-2016). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

21-Evaluation of 15 important potato cultivars against Potato virus A infection in Iran. Project No. 2-16-16-92193- (2013-2016). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

22- Development and optimization of a rapid diagnostic system based on gold nanoparticles for detection of Iranian Potato virus Y isolates. Project No. 2-16-16-93136- (2014-2016). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

23- Production of polyclonal antibody against Prunus necrotic ring spot virus using recombinant coat protein. Project No. 2-16-16-93134- (2014-2016). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

24-Partial biological and molecular characterization of Iranian Beet black scorch virus isolates and their roll in Rhizomania disease of sugar beet. Project No. 3-16-1602-95106- (2016-2018). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

25-A survey on plant pests and diseases challenges for garden development in border rivers' basins in six North-West and West provinces. Project No. 24-16-16-183-961463- (2017-2018). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

26-Production of polyclonal antibody against Beet necrotic yellow vein virus using recombinant coat protein. Project No. 24-16-16-087-980611- (2019-2021). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

27-Evaluation of adjuvants and pesticides to management of aphid vectors and PVY infection in seed potato fields. Project No. 0-16-16-031-970217- (2018-2021). Plant Virus Research Dept., Plant Pests and Diseases Research Institute, Tehran, Iran.

PUBLICATIONS

BOOKS:

1- Farzadfar, Sh., Golnaraghi, A. R. and Pourrahim, R. 2002. Plant viruses of Iran (in English), 216 pp., Saman Co., Tehran, Iran.

2- Pourrahim, R., Farzadfar, Sh. and Golnaraghi, A. R. 2003. Fundamentals of plant Virology (Matthews, 1992) in Persian, 457 pp., Saman Co., Tehran, Iran.

3- Pourrahim, R., Farzadfar, Sh. and Golnaraghi, A. R. 2008. Nanotechnology and Agriculture, in Persian, 262 pp., Sepehr Publishing Co.

Extension Bulletin

حسن رهنما، رضا پوررحیم و مرتضی ابراهیمی. ۱۴۰۰. تولید سیبزمینی تراریخته مقاوم به ویروس وای سیبزمینی (PVY). دستورالعمل فنی-سازمان تحقیقات و آموزش کشاورزی. شماره مجله ۶۰۲۶۹.

شیرین فرزادفر، رضا پوررحیم. ۱۴۰۰. نشریه فنی بیماری ریزومانای چغندرقد و روش های کنترل آن. موسسه تحقیقات گیاهپزشکی کشور.

رضا پوررحیم، حسین نجفی، شیرین فرزادفر، محمدجواد ارده، مهیار شیخالاسلامی، بیبی صدیقه فاطمی، ابوالقاسم قاسمی و مسعود اربابی. ۱۳۹۵. دستنامه گیاهپزشکی چغندرقد. موسسه تحقیقات گیاهپزشکی کشور.

1- Farzadfar, Sh., Pourrahim, R., Shahraeen, N. and Golnaraghi, A. R. (2002) Rhizomania disease in IRAN. Ministry of Agriculture. Agriculture Research, Education and Extension Organization. 6 p.

PAPERS:

شیرین فرزادفر و رضا پوررحیم. ۱۴۰۰. اولین گزارش ویروس رگبرگ زرد نکروتیک چغندرقد در گیاه بابونه طبی در ایران. آفات و بیماری های گیاهی. جلد ۸۹. صفحه ۱.

حسن رهنما، مرضیه قنبری جهرمی، امیر موسوی، سعید سهیلی وند، رضا پوررحیم. ۱۳۹۹. ایجاد مقاومت به ویروس Y سیبزمینی (PVY) با استفاده از سازه سنجاق سری حاوی ژن پروتئین پوششی. دو فصلنامه مهندسی ژنتیک و ایمنی زیستی. جلد ۹ شماره ۲. صفحات ۹۴ تا ۱۰۴.

رضا پوررحیم و شیرین فرزادفر. ۱۳۹۸. اولین گزارش از ویروس D مو (Grapevine virus D) در ایران. مجله آفات و بیماری های گیاهی. جلد ۸۷، شماره ۲.

جعفر نیکان و رضا پوررحیم. ۱۳۹۷. معرفی چند ژنوتیپ و رقم سیبزمینی مقاوم به ویروس برگ قاشقی سیبزمینی PLRV. مجله آفات و بیماری های گیاهی جلد ۸۶ شماره ۱. صفحات ۱۶۳ تا ۱۶۹.

Farzadfar, Sh. and Reza Pourrahim. 2022. Insight into the factor affecting synonymous codon usage bias in the coat protein of soil-borne sugar beet infecting viruses. *Acta Virologica* (in press)

Pourrahim, R. and Shirin Farzadfar. 2022. Insight into the factor affecting synonymous codon usage in Apple mosaic virus and its host adaptability. *Journal of Plant Biotechnology* 49: 46-60.

Farzadfar, Sh. and Reza Pourrahim. 2021. An investigation on natural occurrence of Soybean dwarf virus in alfalfa fields. *Iranian Journal of Virology* 15(2): 46-52.

Pourrahim, R. and Shirin Farzadfar. 2021. The major sources of genetic differentiation among Apricot latent virus (ApLV) isolates. *Iranian Journal of Virology* 15(1): 15-25.

Farzadfar, Sh, Mohamad Reza Rezapanah. and Reza Pourrahim. 2020. Molecular detection of Beet curly top Iran Becurtovirus in isect vector (*Circulifer haematocpes*) and analysis of synonymous codon usage bias. *Iranian Journal of Virology* 14(2): 44-51.

- Pourrahim, R., Mohamad Reza Rezapannah. and Shirin Farzadfar. 2020. Genetic diversity of coat protein gene of Peanut stunt virus (PSV); its evolution governed by mutation and natural selection. *Iranian Journal of Virology* 14(1): 47-52.
- Farzadfar, Sh. and Reza Pourrahim. 2019. Positive selection and recombination shaped the large genetic differentiation of Beet black scorch virus population. *Plos One* 14(4): e02155. 74.
- Farzadfar, Sh. and Reza Pourrahim. 2019. Expression of Prunus necrotic ringspot virus in *E. coli*. *Iranian Journal of Virology* 13 (2): 29-35.
- Pourrahim, R. and Shirin Farzadfar. 2018. Molecular detection of Little cherry virus 1(LChV-1) from Iran. *Iranian Journal of Virology* 12(1): 1-5.
- Farzadfar, Sh. and Pourrahim, R. 2017. First Report of *Turnip mosaic virus* Infection of *Alliaria petiolata* in Iran. *Plant Disease* 8 (<https://doi.org/10.1094/PDIS-01-17-0141-PDN>)
- Farzadfar, Sh. and Pourrahim, R. 2017. Molecular detection of *Turnip yellows virus* (TuYV) infecting alfalfa in Iran. *Australian Plant Disease Notes* 12:1-4. (DOI: 10.1007/s13314-017-0236-7)
- Nasirinia, Gh., Pourrahim, R., Elahinia, S. A., Pouhibakhsh, A. and Farzadfar, Sh. 2016. Incidence of strawberry important virus diseases in Guilan and Mazaddaran provinces. *Applied Entomology and Phytopathology* 84(1): 31-43.
- Pourrahim, R. and Farzadfar, Sh. 2016. Population analysis of Iranian *Potato virus Y* isolates using Complete Genome Sequence. *Korean Plant Pathology Journal* 32(1): 33-46.
- Pourrahim, R. and Farzadfar, Sh. 2015. Biological and molecular characterization of *Alfalfa mosaic virus* infecting Trumpet Creeper (*Campsis radicans*) in Iran. *Journal of Phytopathology* 164(4): 276-280.
- Farmahini, M., Pourrahim, R., Elahinia, A., Rouhibakhsh, A. and Farzadfar, Sh. 2014. An investigation of *Apple chlorotic leaf spot* (ACLSV) and *Tomato ring spot* (ToRSV) in some Iranian pear gardens. *Iranian Journal of Virology* 8: 25-32.
- Farzadfar, Sh., Pourrahim, R., Torkian, M. and Maleki, M. 2014. An investigation on characterization of *Cucumber mosaic virus* isolated from lily green house in Damavand county, Iran. *Iranian Journal of Virology* 6: 36-43.
- Farzadfar, Sh; Pourrahim, R. 2014. Characterization of Turnip mosaic virus from the Asian-BR Population in Iran. *Journal of Phytopathology* 162: 824-828.
- Farzadfar, Sh, Pourrahim, R. 2014. A distinct subpopulation of Cauliflower mosaic virus (CaMV) in South Iran. 162: 833-838.
- Pourrahim, R; Farzadfar, Sh. 2014. Analysis of coat protein of Peanut stunt virus subgroup II isolates from alfalfa fields in West Iran. *Journal of Phytopathology* 162: 527-531.
- Farzadfar, Sh, Pourrahim, R, Ebrahimi, H. 2014. A phylogeographical study of the Cauliflower mosaic virus population in mid-Eurasia Iran using complete genome analysis. *Archives on Virology* 159(6): 1329-1340.

- Farzadfar, Sh, Pourrahim, R. 2013. Biological and molecular variation of Iranian Cauliflower mosaic virus (CaMV) isolates. *Virus Genes* 47(2): 347-356.
- Arafati, N; Farzadfar, Sh; Pourrahim, R. 2013. Characterization of coat protein gene of Cucumber mosaic virus isolates in Iran. *Iranian Journal of Biotechnology* 11(2): 109-114.
- Farzadfar, Sh; Pourrahim, R; Arafati, N. 2013. Molecular identification of Cucumber mosaic virus subgroup IB isolates in South Iran 95(2) 423-428.
- Pourrahim, R; Ghobakhlo, A; Farzadfar, Sh. 2013. Biological and molecular detection of *Hibiscus chlorotic ringspot virus* infecting *Hibiscus rosa-sinensis* in Iran. *Phytopathologia Mediterranea* 52(3) 528-531.
- Pourrahim, R; Golnaraghi, A.R; Farzadfar, Sh. 2012. Occurrence of *Impatiens necrotic spot virus* and *Tomato spotted wilt virus* on Potatoes in Iran. *Plant Disease* 96(5) 771.
- Pourrahim, R., Golnaraghi, A.R., Farzadfar, Sh. and Ohshima, K. 2012. Partial biological and molecular characterization of Tomato yellow fruit ring virus isolates from potato. *Korean Plant Pathology Journal* 28(4) 390-400.
- Farzadfar, Sh; Pourrahim, R. and Maleki, M. 2012. Incidence of *Beet western yellows virus* (BWYV) in alfalfa fields of Lorestan and Ilam provinces (west Iran) and its taxonomical place using coat protein gene. *Applied Entomology and Phytopathology* 82(1), 37-52.
- Pourrahim, R; Farzadfar, Sh. 2012. Coat protein sequence analysis of Iranian Hosta virus X (HVX) isolates. *Applied Entomology and Phytopathology* 81(2), 123-134.
- Farzadfar, Sh., Tomitaka, Y., Ikematsu, M., Golnaraghi, A. R., Pourrahim, R., Ohshima, K. 2009. Molecular characterization of *Turnip mosaic virus* isolates from Brassicaceae weeds. *European Journal of Plant Pathology* 124 (1), 45-55.
- Pourrahim, R., Farzadfar, Sh., Golnaraghi, A. R. 2008. Nano technology and Agriculture, 263 pp., Sepehr Co., Tehran, Iran.
- Golnaraghi, A. R., Pourrahim, R., Ahoonmanesh, A., Zamani-Zadeh, H. R., Farzadfar, Sh. 2008. Detection and characterization of a distinct isolate of *Tomato yellow fruit ring virus* from potato. *Plant Disease* 92 (9), 1280-1287.
- Farzadfar, Sh., Ahoonmanesh, A., Mosahebi, Gh., Ohshima, K., Koohi-Habibi, M., Pourrahim, R., Golnaraghi, A. R. 2007. Partial biological and molecular characterization of *Cauliflower mosaic virus* isolates in Iran. *Plant Pathology Journal* 6 (4), 291-298.
- Farzadfar, Sh., Ahoonmanesh, A., Mosahebi, G. H., Pourrahim, R., Golnaraghi, A. 2007. Occurrence and distribution of *Cauliflower mosaic virus* on cruciferous plants in Iran. *Plant Pathology Journal* 6 (1), 22-29.
- Pourrahim, R., Farzadfar, Sh., Golnaraghi, A., Ahoonmanesh, A. 2007. Incidence and distribution of important viral pathogens in some Iranian potato fields. *Plant Disease* 91 (5), 609-615.
- Golnaraghi, A., Pourrahim, R., Farzadfar, Sh., Ohshima, K., Shahraeen, N., Ahoonmanesh, A. 2007. Incidence and distribution of *Tomato yellow fruit ring virus* on soybean in Iran. *Plant Pathology Journal* 6 (1), 14-21.

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- Pourrahim, R., Farzadfar, Sh., Golnaraghi, A. R., Ahoonmanesh, A. 2007. Partial molecular characterization of some *Grapevine fanleaf virus* isolates from North-east of Iran. *Journal of Phytopathology*, 155 (11-12), 754-757.
- Golnaraghi, A. R., Pourrahim, R., Farzadfar, Sh., Ahoonmanesh, A. 2007. Identification and partial characterization of a *Tospovirus* causing leaf and stem necrosis on potato. *Plant Pathology Journal* 6 (3), 227-234.
- Farzadfar, Sh., Pourrahim, R., Golnaraghi, A. R., Ahoonmanesh, A. 2007. Surveys of beet necrotic yellow vein virus, beet soil borne virus, beet virus Q and *Polymixa beta* in sugar beet fields in Iran. *Journal of Plant Pathology* 89 (2), 277-281.
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- Farzadfar, Sh., Pourrahim, R., Golnaraghi, A. R., Jalali, S., Ahoonmanesh, A. 2004. Occurrence of *Radish mosaic virus* on cauliflower and turnip crops in Iran. *Plant Disease* 88 (8), 909.
- Pourrahim, R., Ahoonmanesh, A., Farzadfar, Sh., Rakhshandehro, F., Golnaraghi, A. R. 2004. Occurrence of *Arabis mosaic virus* and *Grapevine leaf roll associated virus-3* on grapevines in Iran. *Plant Disease* 88 (4), 424.
- Pourrahim, R., Rakhshandehro, F., Farzadfar, Sh., Golnaraghi, A. R. 2004. Natural occurrence of *Tomato ring spot virus* on grapevines in Iran. *Plant Pathology* 53 (2), 237.
- Golnaraghi, A. R., Shahraeen, N., Pourrahim, R., Farzadfar, Sh., Ghasemi, A. 2004. Occurrence and relative incidence of viruses infecting soybeans in Iran. *Plant Disease* 88 (10), 1069-1074.
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- Pourrahim, R., Farzadfar, Sh., Golnaraghi, A. R., Shahraeen, N. 2003. First report of papaya ring spot virus on papaya in Iran. *Plant Disease* 87 (9), 1148.

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- Farzadfar, Sh., Pourrahim, R., Golnaraghi, A. R., Shahraeen, N. 2002. First report of *Beet soil-borne Pomovirus* on sugar beets in Iran. *Plant Disease* 86 (2), 187.
- Farzadfar, Sh., Pourrahim, R., Shahraeen, N., Golnaraghi, A. R. 2002. Rhizomania disease in Iran (extension bulletin). Ministry of Agriculture. Agriculture Research, Education and Extension Organization. 6 p.
- Farzadfar, Sh., Pourrahim, R., Golnaraghi, A. R., Shahraeen, N., Makkouk, K. M. 2002. First report of sugar beet and beans as natural hosts of *Chickpea chlorotic dwarf virus* in Iran. *Plant Pathology* 51 (6), 795.
- Golnaraghi, A. R., Pourrahim, R. Shahraeen, N., Farzadfar, Sh. 2002. First report of *Groundnut bud necrosis virus* from Iran. *Plant Disease* 86 (5), 561.
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