# *Curriculum Vitae of Farzad Afshari*

## A. Personal Particulars

Last Name: **Afshari**

First Name: **Farzad**

Sex: **Male**

Date of Birth: **August, 27, 1965**

Place of Birth: **Omidieh**, **Iran**

Citizenship: **Iranian**

Present Status: **Cereal Pathologist and Member of Scientific Board, Seed and Plant Improvement Institute (SPII), Karaj, Iran**

Mailing Address: **Cereal Pathology Unit, Cereal Research Department, Seed & Plant Improvement Institute (SPII), Mard Abad Road, P.O.Box 4119, Karaj 31585, Iran**

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## B. Academic Degrees

### - B.Sc. Study:

Name of University: **University of Tehran**

Town/City: **Karaj**

Country: **Iran**

Field of Study: **Plant Protection**

Length of Study: **Four Years**

Degree Obtained: **B.Sc.**

Date of Graduation: **1989**

### - M.Sc. Study:

Name of University: **University of Tehran**

Town/City: **Karaj**

Country: **Iran**

Field of Study: **Plant Pathology**

Length of Study: **Three Years**

Degree Obtained: **M.Sc.**

Date of Graduation: **1994**

Master's Thesis Title: **Etiology of Sesame Damping off and Wilt in Khuzestan Province**

### - Ph.D. Study:

Name of University: **The University of Sydney**

Town/City: **Sydney**

Country: **Australia**

Field of Study: **Plant Pathology and Genetics**

Length of Study: **4 Years**

Degree Obtained: **Ph.D.**

Date of Graduation: **2001**

Master's Thesis Title: **Studies on Rust Resistance in Wheat with Particular Emphasis on Stripe Rust**

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## C.Membership in Scientific/ProfessionalOrganization

- Member of " Research Scientific Board of Seed and Plant Improvement Institute"

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## D.Other Qualifications

- Suppervising or advising of 20 MSc. Theses & 6 Ph.D. Theses

## E. Employment Record and Research Experience

**Period/Position**

1994-1996 Research staff and scientific member of Seed and Plant Improvement Institute (SPII)
2001-Until Now Research staff and scientific member of SPII
2008-Until 2013 Head of Cereal Pathology Unit- SPII

**Scientific Position: Professor**

**Research Activities and Achievements**

**a. Yellow Rust**

1. Study on physiologic races of yellow rust in Iran
2. Study on virulence factors (genes) of yellow rust in Iran
3. Evaluation of resistance to yellow rust in cultivars and advanced lines of wheat.
4. Genetic analysis of some cultivars and advanced lines to stripe rust
5. Sharing wheat Breeders for development of resistant cultivars to yellow rust,
6. Virulence survey in wheat yellow rust population and effectiveness of resistance genes

**Achievements:**

1. Sharing in release of 20 resistant wheat cultivars.
2. Identification of 25 races of yellow rust and their distribution.
3. Identification of effectiveness of resistance genes for different parts of Iran.
4. Identification of virulence genes in population of yellow rust in Gergizastan.
5. Determination of sources of resistance to yellow rust among several wheat lines tested in CWAWA countries and introduced them to local scientist for advanced trials and release in related regions.

**b. Leaf rust**

1. Study on virulence factors in green house and field conditions.
2. Determination of sources of resistance to the disease and using them for development of resistant cultivars.
3. Identification of effectiveness of resistance genes for different parts of Iran.
4. Genetic analysis of some cultivars and advanced lines to leaf rust

**Achievements:**

1. Determination of 20 races of the pathogen
2. Identification of effectiveness of resistance genes for different parts of Iran
3. Sharing wheat Breeders for development of resistant cultivars to Leaf rust

**c. Contribution of 20 released new resistance wheat cultivar for different regions in Iran.**

**Book Publication:** Standards and damage assessment to determine the potential separation of management and enforcement in different stages of growth in wheat. 2013. pp 543. F. Afshari. Loss estimation of wheat rusts. Chapter 11 (pages 461-484). Publisher, Agricultural Insurance Fund. (In Farsi).

**Paper Publications:**

1. **Afshari, F**. 2001. Confirmation of the identities of monosomic stocks of Lalbahadur, Oxley and Avocet R wheat using wheat microsatellites. Proceeding of the second national biotechnology congress Islamic republic of Iran, Karaj, Iran, pp. 130-138.
2. **Afshari, F**., R.A. McIntosh, and C.R. Wellinges. 2002. Identification of yellow (stripe) rust resistance genes in a group of international wheat nurseries. In: "Meeting the Challenge of Yellow Rust in Cereal Crops". Johnson, R., A.Yahyaoui, C.R. Wellings, A. Saidi and H. Ketata (EDS.). ICARDA Press, Iran, pp. 102-106
3. **Afshari, F**., M. Torabi and A. Malihipour. 2004. Appearance of new race of *Puccinia striiformis* f. sp. *tritici*. Seed and Plant Journal of Agricultural Research. 4:543-546 (Abstract in Eng.)
4. **Afshari. F.** 2004. Identification of wheat yellow (stripe) rust pathotypes in Iran. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.34
5. **Afshari. F.** 2004.Strategy of wheat stripe rust disease control in Iran. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.17

6. **Afshari. F.** M.Torabi, K. Nazari, A. Malihipour, M. Agnoum, S. Rejaei, M. Dehgan, S. Safavei, M. Nasrolahi, T. Dadrezaei, R. Hoshyar, M. Hassanpour-Hosni, S. Kemangar, M.S. Ahmedian-Moghaddam, M. Chaeichei, F. Jebalbarez and H. Akbari-Mogaddam. 2004. Monitoring of wheat yellow rust pathogen in Iran. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.16
7. **Afshari. F.** 2004. Evaluation of seedling and adult plant resistance to *Puccinia striiformis* f.sp. *tritici* in some wheat genotypes. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.43
8. **Afshari. F.** 2004. Challenge of new race of *Puccinia striiformis* f.sp. *tritici* in Iran. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.19
9. **Afshari. F.** 2004. Genetic analysis of some Iranian wheat cultivars to stripe rust. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.44
10. **Afshari. F.** 2004. Evaluation of preliminary, advanced and elite wheat lines to stripe rust disease. Proceedings of the 2nd Regional Yellow Rust Conference, Islamabad, Pakistan. P.43
11. **Afshari, F**. and M. Torabi. 2005. Preliminary study on some adult plant resistance genes as sources of resistance to stripe rust disease in wheat (*Puccinia striiformis* f.sp. *tritici*). Seed and Plant Journal of Agricultural Research. 2:331-337. (Abstract in Eng.).
12. **Afshari, F**., M. Torabi, K. Nazari, A. Malihipour, S. Rajaei, S.T. Dadrezaei, M. A. Dehghan, R. Hooshyar, M. Nasrolahi, M. Chaichi, S.A. Safavi, H. KarbalaeiKhiavi, M.S.A. Moghaddam, V. Mardoukhi and R. Oghnum. 2005. Virulence factors *Puccinia striiformis* f.sp. *tritici* Westend, the causal agent of wheat yellow rust in some regions of Iran during 2002-2004. Seed and Plant Journal of Agricultural Research. 3:357-372. (Abstract in Eng.)
13. **Afshari, F**. 2006. Protein marker assisted identification of a 1BL.1RS translocation carrying *Yr9, Lr26* and *Sr31* in a group of Iranian cultivars. JAST. 8:265-268.
14. **Afshari, F**., M. Torabi, Sh. Kia, S.T. Dadrezaei, S.A. Safavi, M. Chaichi, H. Karbalaei Khiavi,A. Zakeri, S.B. Kemangar, M. Nasrolahi, M. Patpour and Sh. Abrahim Nejad. 2006. Monitoring of virulence factors of *Puccinia triticina*, the causal agent of wheat leaf rust in Iran during 2002-2004. Seed and Plant Journal of Agricultural Research. 4:485-500. (Abstract in Eng.)
15. **Afshari, F.** 2007. Inheritance of resistance to stripe rust (*Puccinia striiformis* f.sp. *tritici*) in some cultivars and promising lines of wheat. Seed and Plant Journal of Agricultural Research. 4:489-502. (Abstract in Eng.)
16. **Afshari, F**. 2008. Prevalent pathotypes of *Puccinia striiformis* f.sp. *tritici* in Iran. JAST, 10:67-78.
17. **Afshari. F**. 2008. Responses of spring breed wheat lines for central and West Asia and North Africa (CWANA) program to stripe rust disease. 11th International Wheat Genetics Symposium, Brisbane, Australia, P. 159.
18. **Afshari. F**. 2008. Identification of virulence factors of *Puccinia triticina*, the causal agent of wheat leaf rust in Iran. 11th International Wheat Genetics Symposium, Brisbane, Australia, P. 42.
19. **Afshari. F.** 2013. Race analysis of *Puccinia striiformis* f.sp. *tritici* in Iran. Archives of Phytopathology and Plant Protection, Vol. 46: 1785–1796.
20. **Afshari, F.** 2013. Genetics of pathogenicity of wheat stem rust pathogen (*Puccinia graminis* f.sp. *tritici*) and reaction of wheat genotypes to the disease. Iranian Plant Protection Science, 2: 357-365. (Abstract in Eng.).
21. **Afshari, F.**, M. Aghaee, M.R. Jalal Kamali, R. Roohparvar, A. Malihipour, M. Khodarahmei, Sh. Ebrahimbejad, R. Aghnum, M. Chaichi, T. Dadrezaei, M. Dalvand, M.A. Dehghan, A.K. Zakeri, K. Shahbazi, S.A. Safavi, N. Tabatabaei, M. Atahoseini, E. Nabati, R. Hooshyar, M. Yasaei, M. Nasrollahi, R. Mehrabi, T.

Ghaffary, M. Hashami,M. Patpour and Z. Bayat. 2015. Surveillance and *Pgt* race analysis in Iran-2014. 17-20 Sep- BGRI Workshop, Sydney, Australia. P.1.

22. **Afshari, F.**, A. Zakeri, M. Esmaeilzadeh, A. Yazdansepas, G. Nejafian, M. Vahabzadeh, M..Yasaei, Z. Hasanbayat and A. Kabiri. 2015. Inheritance of resistance to stripe rust in some Iranian wheat genotypes. 20-25 Sep. 9th International Wheat Conference, Sydney, Australia. P. 128.
23. Bakhtiar, F., **F. Afshari**, G. Najafian and M. Mohammadi. 2014. Backcross-breeding and doubled-haploid facilitated introgression of stripe rust resistance in bread wheat. Archives of Phytopathology and Plant Protection, 47: 1675–1685.
24. Bakhtiar, F., E. Farshadfar , M. Aghaee Sarbarzeh, H. Ghazvini and **F. Afshari**. 2015. Study on the presence of yellow and stem rust resistance genes in doubled haploid lines of bread wheat using molecular markers. Crop Biotech. 10: 41-56.
25. Bakhtiar, F., E. Farshadfar , M. Aghaee Sarbarzeh, **F. Afshari** and H. Ghazvini. 2016. Evaluation of Resistance to Stripe Rust in Doubled Haploid Lines of Bread Wheat. Seed and Plant Improvement Journal. 4: 679-698. (Abstract in Eng.)
26. Dadrezaei, T. S. Lababidi, K. Nazari, E. Mohammadi Goltapeh, **F. Afshari**, F. Alo, M. Shams-Bakhsh and Naser Safaie. 2013. Molecular Genetic Diversity in Iranian Populations of *Puccinia triticina*, the Causal Agent of Wheat Leaf Rust. American Journal of Plant Sciences. 4: 1375-1386
27. Dadrezaei, T. K. Nazari, **F. Afshari** and E. Mohammadi Goltapeh. 2013. Phenotypic and Molecular Characterization of Wheat Leaf Rust Resistance Gene Lr34 in Iranian Wheat Cultivars and Advanced Lines. American Journal of Plant Sciences. 4: 1821-1833.
28. Dadrezaei, T., **F. Afshari** and M. Patpour. 2015. Evaluation of Phenotypic Resistance to Rusts in some Iranian Wheat Genotypes in Greenhouse and Field Conditions. 3:531-546. (Abstract in Eng.)
29. Dalvand. M., **F. Afshari** and M. Aeini. 2014. Virulence survey of *Puccinia striiformis*, the causal agent of wheat yellow rust, by trap nursery 2010–2012. Archives of Phytopathology and Plant Protection, 47: 1508–1513.
30. Eriksen, L. **Afshari, F**., M.J. Christansen, R.A. McIntosh, A. Jahoor and C.R. Wellinges. 2003. *Yr32* for resistance to stripe (yellow) rust present in the wheat cultivar Carstens V. Theoretical and Applied Genetics, 108:567-575.
31. Farid. M., **F. Afshari**, M. Khodarahmi and M. Mohamadi. 2013. Analysis of wheat (*Triticum aestivum* L.) brown rust (*Puccinia triticina*) disease factor and identification of resistance genes in wheat germ plasms in Iran. Archives of Phytopathology and Plant Protection, 46: 1417–1429.
32. Farid. M., **F. Afshari**, M. Khodarahmi and M. Mohamadi. 2013. Study on the components of tolerance and identification of resistance gene Lr34 with molecular tool to the wheat brown rust disease (*Puccinia triticina*) in the promising lines. Archives of Phytopathology and Plant Protection, 46: 2387–2400.
33. Habibzadeh, A.R., M. Keshavarzi, **F.Afshari** and M.R. Nagavi. 2008. Combined analysis of genetic and resistance gene diversities in wheat cultivars using RGA molecular marker. Plant Disease. 3: 327-337. (Abstract in Eng.).
34. Najafian. G., M. Dadaein, **F. Afshari.** 2008. Bahar, A new bread wheat cultivar for cultivation under irrigated conditions of temperate regions of Iran. Seed and Plant Journal of Agricultural Research. 2:359-365. (Abstract in Eng.)
35. Nazari. K., M. Mafi, M. Nasrolah, M. Chaichi, **F. Afshari** and Z.H. Bayat 2008. Detection of isolates of *Puccinia graminis f.sp. tritici*, virulent to Sr31 resistance gene in Western province of Iran. Seed and Plant Journal of Agricultural Research. 1:207-214. (Abstract in Eng.)

36. Omrani, A., M. Khodarahmi and **F. Afshari**. 2013. Genetics study of resistance to yellow rust in CIMMYT origin wheat advanced lines at seedling and adult plant stages. Archives of Phytopathology and Plant Protection, 46: 2341–2355.
37. Omrani, A, M. Khodarahmi, and **F. Afshari**. 2014. Reaction of some wheat cultivars and breeding lines to *Pst*. Hot races in Iran. Archives of Phytopathology and Plant Protection, 47: 1136–1145.
38. Patpour, M. M. Torabi, R. Aghnum, S.T. Dadrezaei, **F. Afshari** and M.S. A. Moghaddam. 2005. Virulence factors of barley powdery mildew pathogen and their variation in some parts of Iran during 2000-2002. Seed and Plant Journal of Agricultural Research. 2:303-314. (Abstract in Eng.).
39. Patpour, M., M.A. Dehghan and **F. Afshari**. 2007. Reaction of some Dryland barely advanced lines to powdery mildew. Seed and Plant Journal of Agricultural Research. 4:431-442. (Abstract in Eng.).
40. Pornamazeh. P., **F. Afshari** and M. Khodarahmi 2013. The genetic of pathogenicity of *Puccinia striiformis* f. sp. *tritici* the cause's agent of wheat yellow rust disease in Iran. Archives of Phytopathology and Plant Protection, 12: 1497–1507.
41. Pornamazeh, P., **F. Afshari** & M. Khodarahmi 2013. Study of resistance components of some promising wheat lines to yellow rust disease in the seedling stage. Archives of Phytopathology and Plant Protection, 46: 2469–2475.
42. Rafiei. F. A. Arzani. **F. Afshari** and M. Torabi. 2007. Characterization of seedling leaf rust resistance genes in Iranian. Genetics and Breeding, 36: 19-27.
43. Safavi. S. and **F. Afshari** 2013. Virulence factors of *Puccinia triticina* on wheat and effectiveness of *Lr* genes for leaf rust resistance in Ardabil. Archives of Phytopathology and Plant Protection, 46: 1246–1254.
44. Safavi, S. A. Babai Ahari, **F. Afshar** and M. Arzanlou. 2013. Slow rusting resistance in Iranian barley cultivars to *Puccinia striiformis* f.sp. *hordei*. Journal of Plant Protection Research. 53: 5-11.
45. Safavi, S. A. Babai Ahari, **F. Afshari** and M. Arzanlou. 2013. Effective and ineffective resitance genes to wheat yellow rust during six years monitoring in Ardabil. Archives of Phytopathology and Plant Protection, 46: 774–780.
46. Safavi, A. Babai-Ahari, **F. Afshari** and M. Arzanlou. 2014. Virulence Genes and Pathotypes of *Puccinia striiformis* f. sp. *hordei* Causing Yellow Rust on Barley in some Areas of Iran. 4:733-760. (Abstract in Eng.)
47. Safavi, A. and **F. Afshari**. 2015. The reaction of seedling and adult plant of wheat promising lines to yellow rust. Iranian Plant Protection Science, 2: 241-250. (Abstract in Eng.)
48. Torabi, M., V. Mardokhi, K. Nazari, **F. Afshari,** A.R. Forootan, M.A. Ramai, H. Golzar and A.S. Kashani. 1995. Effectiveness of wheat yellow rust resistance genes in different parts of Iran. Cereal Rust and Powdery Mildew Bulletin. 23: 9-12.
49. Torabi. M., K. Nazari and **F. Afshari**. 2001. Genetics of pathogenicity of *Puccinia recondita* f. sp. *tritici*, the causal agent of leaf rust of wheat. Iranian J. Agric. Sci. 32: 625-635. (Abstract in Eng.)
50. Vafa. M., M. Torabi, G.H. Ahmadi, Sh. Jasami and **F. Afshari**. 2005. Reaction of promising irrigated bread wheat genotypes to common bunt (*Tilletia leavis*). Seed and Plant Journal of Agricultural Research. 4:310-322.
51. Safavi. S.A. and **F. Afshari**. 2017. A seven-year assessment of resistance durability to yellow rust in some wheat cultivars in Ardabil province, Iran. Journal of Crop Protection. 3:409-421.
52. Serpoush. M., M. Khodarahmi and **F. Afshari**. 2018. Inheritance of Resistance to Stripe Rust (*Puccinia striiformis* f.sp. *tritici*) Race 198E154A+ In Wheat cv. Morvarid. Acta Scientific Agriculture. 2:27-31.

53. Bakhtiar. F., H. Ghazvini, M. Aghaee Sarbarzeh and **F. Afshari** .2018. Production and evaluation of bread wheat doubled haploid lines with resistance to stem rust (*Puccinia graminis* f. sp. *tritici*). Crop Breeding, 7:37-47.

1. And more than 30 Abstracts in National and International conferences during 2010-2018