

# **Curriculum Vitae**

## **Mohsen Yassaie, PhD**

*Seed and Plant Improvement Research Dept., Research and Education Center for Agriculture and Natural Resources of Fars Province*

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## **Education**

- PhD; Plant Pathology (Virology), Shiraz University (۱۳۹۰) "Induction of resistance to Barley yellow dwarf virus (PAV) in bread wheat using posttranscriptional gene silencing (PTGS) and virus induced gene silencing (VIGS)" • M.Sc.; Plant Pathology (Virology), Shiraz University (۱۳۹۱). "Characterization of citrus ring spot virus in Fars province"
- B.Sc.; Plant protection Shiraz University (۱۳۹۲) (top ranked student)

## **Research**

- **Position:**

- Assist. Prof., Patho-breeder, Seed and Plant Improvement Research Dept., Research and Education Center for Agriculture and Natural Resources of Fars Province. ۱۳۹۱- Now.
- Head of Seed and Plant Improvement Research Dept., Research and Education Center for Agriculture and Natural Resources of Fars Province. ۱۳۹۰- Now.

- **Research Interests:**

- Investigations on resistance against the most important cereal viral diseases (Barley yellow dwarf and wheat streak mosaic) via traditional (classic breeding, screening for R genes in native and commercial gene pools) and molecular (using PTGS and VIGS).
- Research on resistance sources against cereal rusts.
- Cereal tissue culture and transformation.

- **Membership:**

Iranian plant pathology society

- **Honors:**

Top B.Sc. student in Plant Protection Dept., Shiraz University, ۱۳۹۲.

- **Awards:**

- PhD Scholarship, Ministry of Jihad-e-Agriculture
- Six months sabbatical as visiting scientist, Aarhus University, Denmark, awarded by Iranian Ministry of Science, Research and Technology.

## Participation in Cereal Verities Release

- ۱) **Parsi** wheat variety, ۲۰۰۹
- ۲) **Sivand** wheat variety, ۲۰۰۹
- ۳) **Ghaboos** wheat variety, ۲۰۱۴
- ۴) **Aftaab** wheat variety, ۲۰۱۴
- ۵) **Hashtrood** wheat variety, ۲۰۱۰
- ۶) **Aseman** wheat variety, ۲۰۱۷
- ۷) **Perov** wheat variety, ۲۰۱۷
- ۸) **Khalil** wheat variety, ۲۰۱۷
- ۹) **Torabi** wheat variety, ۲۰۱۹
- ۱۰) **Setareh** wheat variety, ۲۰۱۹
- ۱۱) **Kalateh** wheat variety, ۲۰۱۹
- ۱۲) **Golshan** barley variety, ۲۰۱۹
- ۱۳) **Meraj** wheat variety, ۲۰۱۹
- ۱۴) **Rahmat** wheat variety, ۲۰۱۹
- ۱۵) **Shalan** wheat variety, ۲۰۱۹
- ۱۶) **Kamal** wheat variety, ۲۰۱۹
- ۱۷) **Varan** wheat variety, ۲۰۱۹
- ۱۸) **Zahab** wheat variety, ۲۰۱۹
- ۱۹) **Saverz** wheat variety, ۲۰۱۹
- ۲۰) **Amin** wheat variety, ۲۰۲۰
- ۲۱) **Farin** wheat variety, ۲۰۲۰
- ۲۲) **Sahar** wheat variety, ۲۰۲۰
- ۲۳) **Taban** wheat variety, ۲۰۲۰
- ۲۴) **Sana** wheat variety, ۲۰۲۰
- ۲۵) **Nobahar** barley variety, ۲۰۲۰
- ۲۶) **Heyran** wheat variety, ۲۰۲۰
- ۲۷) **Paya** wheat variety, ۲۰۲۰
- ۲۸) **Jaam** wheat variety, ۲۰۲۰
- ۲۹) **Mehr** wheat variety, ۲۰۲۰

## Presentations

**Yassaie, M.** and Izadpanah, K. ۲۰۰۰. Electrophoresis profiles of protein and nucleic acid, attempts for mechanical transmission of Fars isolate of citrus ring spot virus and it's comparison with certain foreign isolates. p.: ۱۳۴. In: Proc. ۱۴<sup>th</sup> Iranian Plant Protect. Cong. Isfahan Technical University. Iran.

**Yassaie, M.** and Izadpanah, K. ۱۹۹۷. Purification, serology and electron microscopy of citrus ring spot virus in Fars province. p : ۱۳۰. In: Proc. ۱۴<sup>th</sup> Iranian Plant Protect. Cong. Isfahan Technical University. Iran.

**Yassaie, M.**, Massumi, M., Amin, H. and Izadpanah, K. ۲۰۰۲. Evaluation of Wheat streak mosaic virus response in commercial and native wheat and wheat ancestors. p : ۳۲. In: Proc. ۱۵<sup>th</sup> Iranian Plant Protect. Cong. Razi University of Kermanshah, Kermanshah, Iran.

**Yassaie, M.**, Afsharifar, A., Masumi, M., Heydarnejad, J., Sadeghi, M. S. and Izadpanah, K. ۲۰۰۴. Occurrence of viral diseases in rice fields in Fars province. p : ۹۱. In: Proc ۱۶<sup>th</sup> Iranian Plant Protect. Cong., Tabriz, Iran.

Masumi, M., **Yassaie, M.**, Zare, A. and Izadpanah, K. ۲۰۰۳. Philology of some isolates of wheat streak mosaic virus in Iran. p: ۴۶۷-۴۶۹ . In: Proc. ۳rd National Congress of Biotechnology of Iran, Mashhad, Iran.

Afsharifar, A. R., Sadeghi, M. S., **Yassaie, M.**, Esmaeelzadeh Hosseini and Izadpanah, K. ۲۰۰۴. The status of Barley yellow dwarf and Cereal yellow dwarf viruses in Iran. p :۷۶. In: Proc ۱۷<sup>th</sup> Iranian Plant Protect. Cong., Tabriz, Iran.

Rastgou, M., Khatabi, B., **Yassaie, M.**, Afsharifar, A.R., Masumi, M. and Izadpanah, K. ۲۰۰۴. Distribution and new hosts of viruses causing yellow dwarf in cereal. p : ۷۱. In: Proc ۱۷<sup>th</sup> Iranian Plant Protect. Cong., Tabriz, Iran.

Masumi, M., **Yassaie, M.**, Zare, A. and Izadpanah, K. ۲۰۰۵. Fertile Crescent is the Epicenter of wheat streak mosaic virus. p: ۸۰ . In: Proc Xth Conference on Viral Diseases of Gramineae in Europe, Louvain-la-Neuve, Belgium.

**Yassaie, M.**, Afsharifar, A. R., Sadeghi, M. S., Masoumi, M., Davoodi, A. and Izadpanah, K. ۲۰۰۷. Evaluation of resistance in some wheat and barley genotypes to barley and cereal yellow dwarf viruses in Kelardasht. p: ۴۴ . In: Proc. ۱۸<sup>th</sup> Iranian Plant Protect. Cong., Karaj, Iran.

**Yassaie, M.**, Masoumi, M., Amini, A. and Izadpanah, K. ۲۰۰۷. Reaction of some Iranian native wheat lines to Wheat streak mosaic virus under greenhouse conditions. p: ۴۰ . In: Proc ۱۸<sup>th</sup> Iranian Plant Protect. Cong., Karaj, Iran.

Shahragard, N., Masumi, M., **Yassaie, M.** and Izadpanah, K. ۲۰۰۷. Evaluation of resistance in some advanced lines of soft wheat and some cultivars of barley

to virus diseases in Shahrekord. P: ۴۱. In: Proc ۱۸<sup>th</sup> Iranian Plant Protect. Cong., Karaj, Iran.

**Yassaie, M.**, Izadpanah, K., Afsharifar, A. and Niazi, A. ۲۰۱۰. Construction of an intron-hairpin loop gene silencing vector against Barley yellow dwarf virusPAV. P: ۷۷۶. In: Proc ۱۹<sup>th</sup> Iranian Plant Protect. Cong., Tehran, Iran.

**Yassaie, M.**, Izadpanah, K., Afsharifar, A., Niazi, A. and Albrechtsen, M. ۲۰۱۰. Sequence of Barley yellow dwarf virus (BYDV-PAV) triggers silencing in barley. P: ۷۷۰. In: Proc ۱۹<sup>th</sup> Iranian Plant Protect. Cong., Tehran, Iran.

**Yassaie, M.**, Masoumi, M., Amini, A. and Izadpanah, K. ۲۰۱۰. Response of some Iranian native wheat lines to three different wheat streak mosaic virus isolates. P: ۷۴۰. In: Proc ۱۹<sup>th</sup> Iranian Plant Protect. Cong., Tehran, Iran.

**M. Yassaie**, S. F. Rouhani and A.R. Nikzad. ۲۰۱۴. Reaction of some triticale genotypes against Wheat streak mosaic virus. P: ۳۷۳. In: Proc ۲۱<sup>th</sup> Iranian Plant Protect. Cong., Uromia, Iran.

Zakeri, A., **Yassaie, M.**, Afshari, A., Nikzad, R., and Rejaei, S. ۲۰۱۴. *Puccinia striiformis* f. sp. *tritici* virulence and reactions of some commercial wheat cultivars in Fars province, Iran, over the past decade. Proceedings of the Second International Wheat Stripe Rust Symposium. Ezmir, Turkey. P ۸۲.

Zakeri, A., Khodarahmi, M., Ebrahimnejad, S., **Yassaie, M.**, Nikzad, A.R. and Rejaei, S. ۲۰۱۴. Genetic analysis of resistance to stripe rust in Iranian wheat cultivars and elite lines. Proceedings of the Second International Wheat Stripe Rust Symposium. Ezmir, Turkey. P ۸۴.

Rouhani, S. F., **Yassaie, M.** and Sharzei, A. ۲۰۱۴. Effect of dual infections of Barley yellow dwarf virus (BYDV-PA V) and Wheat streak mosaic virus (WSMV) on titer and symptom of WSMV. P: ۳۷۰. In: Proc ۲۱<sup>th</sup> Iranian Plant Protect. Cong., Uromia, Iran.

Afshari, F., Zakeri, A., Esmaeilzadeh, M., Yazdansepas, A., Nejafian, G., Vahabzadeh, M., **Yassaie, M.**, Hasanbayat, Z. and Kabiri, A. ۲۰۱۰. Inheritance of resistance to stripe rust in some Iranian wheat genotypes. International Wheat Conf. Australia, Sydney. p ۱۲۸.

**Yassaie, M.**, Sharzei, A., Shamoradi, M. and Rezaienia, F. ۲۰۱۰. The Iranian wheat landraces comprise tolerant and resistant sources against viral diseases. XVIII International Plant Protection Congress. Germany, Berlin.

## Publications

**Yassaie, M.** ۱۹۹۹, Characterization of citrus ring spot virus in Fars province. M.Sc. Thesis, Shiraz University. ۱۲۶ pp.

Masumi, M., **Yassaie, M.**, Zare, A. and Izadpanah, K. ۲۰۰۵. Fertile Crescent is the Epicenter of wheat streak mosaic virus. Parasitica ۷۱: ۷۳-۷۸.

Masumi, M., **Yassaie, M.**, Zare, M., Afsharifar, A. and Izadpanah, K. ۲۰۰۷. Analysis of ۳'-region of the genome of Wheat streak mosaic virus isolates in Iran. Iranian Journal of Plant Pathology. ۴۲: ۶۰-۸۱.

Ale-Osfour, M., Izadpanah, K., Mosadegh, S., Sadeghi, M.S., Afsharifar, A.R., Masoumi, M., **Yassaie, M.**, Jokar, L. and Hayati, J. ۲۰۰۷. Efficiency of seven clones of *Rhopalosiphum padi* in transmission of four barley yellow dwarf virus-PAV isolates in Iran. ۴۳: ۱۸۴-۱۹۹.

Najafian, G., Amin, H., ..., **Yassaie, M.**, ...., ۲۰۱۰. Sivand, A new bread wheat cultivar, resistant to stem rust (Race Ug<sup>99</sup>) with good bread making quality for cultivation under irrigated conditions of temperate regions of Iran, Seed and Plant Improvement Journal. ۲۶: ۲۸۰-۲۸۸.

Najafian, G., Amin, H., ..., **Yassaie, M.**, ...., ۲۰۱۰. Parsi, A new bread wheat cultivar, resistant to stem rust (Race Ug<sup>99</sup>) with good bread making quality for cultivation under irrigated conditions of temperate regions of Iran. ۲۶: ۲۸۹-۲۹۲.

Darabi, S., **Yassaie, M.** and Izadpanah, K. ۲۰۱۰. Purification and antiserum production of Iranian isolate of *Beet Necrotic Yellow Vein Virus* (BNYVV), the causal agent of sugar beet rhizomania disease. ۲۶: ۵۳-۶۶.

**Yassaie, M.** ۲۰۱۰. Induction of resistance to Barley yellow dwarf virus (PAV) in bread wheat using post-transcriptional gene silencing (PTGS) and virus induced gene silencing, PhD thesis, pp ۱۸۶. Shiraz University, Shiraz, Iran.

**Yassaie, M.**, Afsharifar, A. R., Niazi, A., Salehzadeh, S. and Izadpanah, K. ۲۰۱۱. Induction of resistance to Barley yellow dwarf virus (PAV) in bread wheat using post-transcriptional gene silencing (PTGS). *Iran. J. Plant Path.* ۴۷: ۶۷-۸۲ (in Farsi with English abstract).

Kavousipour, S, Niazi, A., Izadpanah, K., Afsharifar, A. R. and **Yassaie, M.**, ۲۰۱۲. Induction of resistance to cucumber mosaic virus (CMV) by transformation of *rbc* gene hairpin construct. *Iran. J. Plant Path.* ۴۸: ۲۰۹-۲۱۹ (in Farsi with English abstract).

Zakeri, A., Afshari, A., Rejaei, S., **Yassaei, M.**, Nikzad, R. and Hassain, F. ۲۰۱۴. Inheritance of resistance in selected elite wheat genotypes and several commercial wheat cultivars of Fars province to stripe rust. *Iran. J. Plant Path.* ۵۰: ۷۳-۷۶ (in Farsi with English abstract).

Rouhani, S. F., **Yassaie, M.** and Sharzei, A. ۲۰۱۰. Effects of dual infections of Barley yellow dwarf virus (BYDV-PAV) and Wheat streak mosaic virus (WSMV) on WSMV titer, symptom severity and some yield components of wheat. *Iran. J. Plant Path.* ۵۱: ۱۴۱-۱۶۱ (in Farsi with English abstract).

Zakeri, A., **Yassaei, M.**, Afshari, A., Rejaei, S. and Nikzad. ۲۰۱۶. Surveying virulence of the causal agent of wheat stripe rust (*Puccinia striiformis* f. sp. *tritici*) and determining reaction of commercial wheat cultivars over the past decade in Fars, Iran. *Iranian Journal of Plant Pathology.* ۵۲: ۲۹۷-۳۱۶ (in Farsi with English abstract).

Zakeri, A., Afshari, F., **Yassaie, M.**, Nikzad, A. R. and Rejaei, S. ۲۰۱۶. Genetic analysis of resistance to stripe rust in several Iranian wheat cultivars and elite lines. *Crop Breeding Journal.* ۵, ۵ and ۶: ۱-۸.

Zakeri, A., Afshari, F., **Yassaie, M.**, Ghazvini, H., Hassani, F., Safavi, S. A. and Minno, M. J. ۲۰۱۸. Race identification and response of Iranian barley genotypes to barley yellow rust at seedling and adult plant stages in Fars province in Iran. *Crop Breeding Journal.* ۸: ۳۱-۴۷. (In Farsi).

Najafian, G., Khodarahmi, M., Bakhtiar, F., ...., **Yassaie, M.**, ..... ۲۰۱۸. Rakhshan, New bread wheat cultivar, with high grain yield potential, resistance to wheat rusts and good bread making quality and suitable for irrigated conditions in temperate agro-climatic zone of Iran. *Research Achievements for Field and Horticulture Crops.* ۱: ۳۱-۴۷.

Hosseini, M., Ghorbani, R., Rashed Mohassel, M.H. and **Yassaie, M.** ۱۰۱۹. Correlation of environmental factors and phenotypic diversity of Iranian wild barley (*Hordeum Spontaneum* Koch) populations. *Acta Ecologica*. ۹۰: ۱۹-۲۰.

Esmaeilzadeh Moghaddam, M., Khodarahmi, M. Mahmoudi, K., Akbari Moghaddam, H., Sayahfar, M., Tahmasebi, S., Lotfalie Aeineh, G. A., Naderi, A., Amir Bakhtiar, N., Farhadi Sadr, M., Afshari, F., Dalvand, M., Zakeri, A. K., Tabatabaei, N., **Yassaie, M.**, Roohparvar, R. and Kia, S. ۱۰۱۹. Barat, A New Bread Wheat Cultivar, Suitable for Irrigated Areas in Southern Warm and Dry Zone of Iran. *Research Achievements for Field and Horticulture Crops*. ۷: ۱۳۹-۱۴۷.

Farahbakhsh, F., Hamzehzarghani, H., Massah, A., Tortosa, M., **Yassaie, M.** and Rodriguez, M. ۱۰۱۹. Comparative metabolomics of temperature sensitive resistance to wheat streak mosaic virus (WSMV) in resistant and susceptible wheat cultivars. *Journal of Plant Physiology*. ۲۳۷: ۳۰-۴۲.

Aghnoum, R., **Yassaie, M.**, Dalvand, M. and N. Tabatabaei Fard. ۱۰۱۹ Virulence analysis and effectiveness of new sources of resistance to barley powdery mildew (*Blumeria graminis f. sp. hordei*) in southwestern regions of Iran. *Crop Breeding Journal*. ۹: ۲۲-۳۱.

Patpour, M., Justesen, A., Tecle, A. W., Yazdani, M., **Yassaie, M.** and Hovmøller, M.S. ۱۰۲۰. First Report of Race TTRTF of Wheat Stem Rust (*Puccinia graminis f. sp. tritici*) in Eritrea. *Plant Disease*. ۱۰۴: ۹۷۳.

Pouralibaba, H.R., Mohammadi, N., Afshari, F., Safavi, S., **Yassaie, M.** and Atahoseini, M. ۱۰۲۱. GLM-PCA, a method to detect informative environments and phenotypic stable resistant sources of wheat to yellow rust in multi-environmental trials. *Indian Phytopathology*. ۷۴: ۱۴۰-۱۰۰.

H. Zare, H., Zamanifar, A. and **Yassaie, M.** ۱۰۲۱. Effect of fig mosaic disease on carbohydrates metabolism and pigments content of fig leaves. DOI: ۱۰.۱۷۶۶/ActaHortic. ۲۰۲۱, ۱۳۱۰, ۶۰.

Mojtaba Hosseini, M., Ghorbani, R., Rashed mohassel, M.H. and **Yassaie, M.** ۱۰۲۱. Wild Barely (*Hordeum spontaneum* koch) populations response to sulfosulfuron herbicide. *Iranian journal of weed science*. ۱۷-۱-۱۷.

Hosseini, M., **Yassaie, M.**, Ghorbani, R., Rashed Mohassel, M.H. and Niazi A. ۱۰۲۱. Genetic diversity of Iranian wild barley (*Hordeum spontaneum* Koch.) populations. *Journal of Crop Science and Biotechnology*. DOI: <https://doi.org/10.1007/s12892-021-0132-2>

## **Hand Books and Extension Publications**

- ۱- Nikzad, A.R., Dastfal, M., Yassaie, M. and Paydar, S. ۲۰۱۰. History and Evolution of Triticale. ۱۸pp. (In Farsi).
- ۲- Yassaie, M. and Zakeri, A., ۲۰۱۰. Barley and cereal yellow dwarf viruses. (In Farsi).
- ۳- Zakeri, A. and Yassaie, M. ۲۰۱۰. Wheat rust diseases and its management. (In Farsi).
- ۴- Nikzad, A.R., Sarikhani, S., Ghaedsharaf, F., Yassaie, M., Dastfal, M., Zakeri, A. and Hassain, F. ۲۰۱۰. Introduction of durum wheat varieties for tropical climates zone of Fars province. (In Farsi).
- ۵- Nikzad, A.R., Sarikhani, S., Ghaedsharaf, F., Yassaie, M., Dastfal, M., Zakeri, A. and Hassain, F. ۲۰۱۰. Introduction of bread wheat and barley varieties for temperate climates zones of Fars province. (In Farsi).
- ۶- Nikzad, A.R., Sarikhani, S., Ghaedsharaf, F., Yassaie, M., Dastfal, M., Zakeri, A. and Hassain, F. ۲۰۱۰. Introduction of bread wheat varieties for tropical climates zones of Fars province. (In Farsi).
- ۷- Nikzad, A.R., Sarikhani, S., Ghaedsharaf, F., Yassaie, M., Dastfal, M., Zakeri, A. and Hassain, F. ۲۰۱۰. Introduction of bread wheat and barley varieties for cold climates zones of Fars province. (In Farsi).
- ۸- Nikzad, A.R., Zakeri, A., Yassaie, M., ..... ۲۰۱۰. Manual of Wheat Cultivation in Cold Regions of Fars Province. ۷۱pp. (In Farsi).
- ۹- Estakhr, A. and Yassaie, M. ۲۰۱۹. Management of Important Viral Diseases of Maize in Fars Province. ۲۹pp. (In Farsi).