

## *Curriculum Vita*

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**Title:** Dr.  
**Birth:** 1969, Tabriz, Iran  
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**Current Position:** Academic Staff, Assistant Professor in the Department of Cereals Research at Seed and Plant Improvement Research Institute (SPII), Karaj, Iran.  
**Current Functions:** Wheat Patho-Breeder, Pathologist, and Molecular Geneticist  
**Research interests:** Septoria Leaf Blotch, and Stem Rust Diseases of Wheat (Race Identification of the Pathogen, and Resistance Evaluation of Wheat Germplasm)

### **Educational Background**

**Ph.D. Degree:** 2007, in Plant Sciences-Biotechnology and Plant Pathology, Wageningen University and Research, Wageningen, The Netherlands.  
**Ph.D. Thesis:** Drug Transporters of the Fungal Wheat Pathogen *Mycosphaerella graminicola*, ISBN 90-8504-632-7.  
**M.Sc. Degree:** 1998, in Plant Pathology, University of Tehran, Karaj, Iran.  
**M.Sc. Thesis:** Chitinase Activity Pattern in Wheat Leaves during Compatible and Incompatible Interactions with *Puccinia striiformis* f. sp. *tritici*, The Causal Agent of Yellow Rust disease.  
**B.Sc. Degree:** 1992, in Agricultural Engineering-Plant Protection, University of Tabriz, Tabriz, Iran.

### **Running Projects:**

1. Monitoring of wheat rusts, and reaction evaluation of wheat commercial cultivars, selected lines and international rusts nurseries in Iran.
2. Race analysis of the wheat stem rust pathogen *Puccinia graminis* f. sp. *tritici* in Iran.
3. Pathotype diversity among the populations of *Zymoseptoria tritici*, the fungal wheat pathogen of septoria tritici blotch in Iran.
4. Evaluation of resistance to septoria leaf blotch in wheat germplasm.
5. Identification of genetic resistance sources to Septoria tritici blotch and Fusarium head blight in rainfed wheat genotypes.

### **Contribution in New Wheat Cultivar Released:**

**Ehsan:** Irrigated Wheat for the Warm and Humid Zone of Iran, Released at 2017.  
**Barat:** Irrigated Wheat for the Warm and Dry Zone of Iran, Released at 2016.  
**Hashtroud:** Rain-fed Wheat for the Cold and Moderate Zone of Iran, Released at 2015  
**Chamran2:** Irrigated Wheat for the Warm and Dry Zone of Iran, Released at 2014  
**Ghaboos:** Rain-fed Wheat for the Warm Zone of Iran, Released at 2014  
**Aftab:** Rain-fed Wheat for the Warm Zone of Iran, Released at 2014  
**Owhadi:** Rain-fed Wheat for the Cold and Moderate Zone of Iran, Released at 2011  
**Rizhav:** Rain-fed Wheat for the Cold Zone of Iran, Released at 2011

## Selected peer-reviewed English articles:

- Dalvand, M., **Roohparvar, R.**, 2013, Evaluation of Iranian wheat cultivars reaction to septoria tritici blotch and virulence survey of *Mycosphaerella graminicola* in Khuzestan province. International Research Journal of Applied and Basic Sciences, 5 (9): 1097-1100.
- Dalvand, M., **Roohparvar, R.**, Aeini, M., 2014, Evaluation of some Iranian wheat elite lines' reaction to Septoria tritici leaf blotch. Archives of Phytopathology and Plant Protection, 47 (13): 1621-1628.
- Dalvand, M., Soleimani Pari, M.J., Zafari, D., **Roohparvar, R.**, Tabib Ghafari, S.M., 2016, Study on virulence factors of *Mycosphaerella graminicola*, the causal agent of septoria leaf blotch and reactions of some Iranian wheat genotypes to this pathogen in Iran. Journal of Applied Biotechnology Reports, 3 (1): 359-363.
- Dalvand, M., Zafari, D., Soleimani Pari, M.J., **Roohparvar, R.**, Tabib Ghafari, S.M., 2018, Genetic diversity in *Zymoseptoria tritici* that causes septoria tritici blotch by using ISSR and SSR markers. Journal of Agricultural Science and Technology. In press, Vol. 20, Issue 6.
- Hosseinnezhad, A., Khodarahmi, M., Rezaee, S., Mehrabi, R., **Roohparvar, R.**, 2014, Effectiveness determination of wheat genotypes and *Stb* resistance genes against Iranian *Mycosphaerella graminicola* isolates. Archives of Phytopathology and Plant Protection 47 (17): 2051-2069.
- Lewis, C.M., Persoons, A., Bebbler, D.P., Kigathi, R.N., Maintz, J., Findlay, K., Bueno-Sancho, V., Corredor-Moreno, P., Harrington, S.A., Kangara, N., Berlin, A., García, R., Germán, S.E., Hanzalová, A., Hodson, D.P., Hovmöller, M.S., Huerta-Espino, J., Imtiaz, M., Iqbal Mirza, J., Justesen, A.F., Niks, R.E., Omrani, A., Patpour, M., Pretorius, Z.A., **Roohparvar, R.**, Sela, H., Singh, R.P., Steffenson, B., Visser, B., Fenwick, P.M., Thomas, J., Wulff, B.B.H., Saunders, D.G.O., 2018, Potential for re-emergence of wheat stem rust in the United Kingdom. Communications Biology. In press, Vol. 1, Issue 13.
- Mohammadi, M., **Roohparvar, R.**, Torabi, M., 2002, Induced chitinase activity in resistant wheat leaves inoculated with an incompatible race of *Puccinia striiformis* f.sp. *tritici*, the causal agent of yellow rust disease. Mycopathologia, 154: 119-126.
- Roohparvar, R.**, Mehrabi, R., Nistelrooy, J.G.M. van, Zwiers, L.H., Waard, M.A. de, 2008, The drug transporter MgMfs1 can modulate sensitivity of field strains of the fungal wheat pathogen *Mycosphaerella graminicola* to the strobilurin fungicide trifloxystrobin. Pest Management Science, 64 (7): 685 - 693.
- Roohparvar, R.**, Waard, M.A. de, Kema, G.H.J., Zwiers, L.H., 2007, MgMfs1, a major facilitator superfamily transporter from the fungal wheat pathogen *Mycosphaerella graminicola*, is a strong protectant against natural toxic compounds and fungicides, Fungal Genetics and Biology, 44 (5): 378 - 388.
- Roohparvar, R.**, Huser, A., Zwiers, L.H., Waard, M.A. de, 2007, Control of *Mycosphaerella graminicola* on wheat seedlings by medical drugs known to modulate the activity of ATP-binding cassette transporters, Applied and Environmental Microbiology, 73 (15): 5011 - 5019.
- Sedaghatfar, E., Zamanizadeh, H.R., **Roohparvar, R.**, Karimi Farsad, L., Fazeli, A., Rezaee, S., Mardi, M., 2012, Gene expression profiling of defense-related genes resistant to *Septoria tritici* blotch in wheat. African Journal of Biotechnology, 11: 13633-13644.
- Zwiers, L.H., **Roohparvar, R.**, Waard, M.A. de, 2007, MgAtr7, a new type of ABC transporter from *Mycosphaerella graminicola* involved in iron homeostasis, Fungal Genetics and Biology, 44 (9): 853 - 863.

## Short papers and Abstracts in Proceedings:

Oral and poster presentations (~50) in various congresses, conferences, scientific meetings, and workshops in Iran, the Netherlands, USA, Tunisia, Russia, Kenya, Belgium, Austria, and South Africa.