

Curriculum Vitae



Name: Ali Omrani

Nationality: Iranian

Sex: Male

Current address: Assist. Prof., Crop and Horticultural Science Research Department, Ardabil Agricultural and Natural Resources Research and Education Center, Agricultural Research Education and Extension Organization (AREEO), Moghan, IRAN.

Permanent address:

Email: a.omrani@areeo.ac.ir

ali.omrani65@gmail.com

ali_omrani90@yahoo.com

Tell: +989363360479, +989125711874

EDUCATION

- Ph.D in Plant Breeding (Biometrical genetics), (First Class), during 2013-2018, from University of Tabriz, Tabriz, Iran.

TITLE OF M.Sc. AND Ph.D THESIS

M.Sc. Thesis: study on inheritance and resistance gene (s) action to stripe (yellow) rust in bread wheat

PhD Thesis: Inheritance of resistance to stem rust (*Puccinia graminis* f. sp. *tritici*) in bread wheat and identify sources of resistance using phenotypic and molecular data

RESEARCH INTERESTS

- Molecular and Cell Biology
- Gene expression analysis in biotic stress
- QTL analysis of agronomic and disease resistance characteristics
- Plant-Pathogens Interactions
- Genetic Engineering and Gene Cloning
- Functional analysis of genes

COMPUTER SKILLS

Basic computer skills

- Office package

- Photoshop

Academic programs

- SPSS
- Minitab
- SAS
- NTSYS
- Past
- Map Manager
- Pop gene
- Gene Alex
- Win QTL
- GGE Biplot

RESEARCH EXPERIENCES

- Three years plant pathology experiences including lab and greenhouse and field experiment for leaf rust, stem rust, yellow rust, at cereal Research Department, Seed and Plant Improvement Institute (SPII) as a Ph.D and Ms.C student.

MOLRCULAR TECHNIQUES

- DNA and extraction from plant and fungi
- Spectrophotometry
- PCR
- Agarose and Polyacrylamide gels electrophoresis
- Ethidium bromide staining

PUBLICATIONS

- 1- **Omrani, A.,** Khodarahmi, M., and Afshari, F. 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. Volume 46, Issue 19: 2341-2355. <http://dx.doi.org/10.1080/03235408.2013.794529>
- 2- **Omrani, A.,** Khodarahmi, M., and Afshari, F. 2014. Reaction of some wheat cultivars and breeding lines to *Puccinia striiformis* f. sp. tritici hot races in Iran. Archives of Phytopathology and Plant Protection. Volume 47, Issue 9: 1136-1145. <http://dx.doi.org/10.1080/03235408.2013.832865>
- 3- **Omrani, A.,** Khodarahmi, M., and Afshari, F. 2013. Evaluation of Resistance to Yellow Rust in some Wheat Advanced Lines. Seed and Plant Improvement Journal. 29 (4) :761-776. (In Persian) http://spij.spii.ir/browse.php?a_code=A-10-1-626&slc_lang=en&sid=1
- 4- **Omrani, A.,** Khodarahmi, M., and Afshari, F. 2011. Study on resistance of wheat commercial cultivars to yellow rust to some isolates (*Puccinia striiformis* f.sp. tritici) from different regions of Iran. Iranian Journal of Agronomy & Plant Breeding. 7(1):55-68. (In Persian)
- 5- **Omrani, A.,** Khodarahmi, M., and Afshari, F. 2016. The Evaluation of Stripe rust Resistance Genes in Selected Wheat Genotypes to *Puccinia striiformis* f. sp. tritici Races. Iranian genetics society. (Article on Arbitration)

- 6- **Omrani, A.**, Khodarahmi, M., and Afshari, F. 2016. Separation of virulence factors in five high virulence races of wheat stripe rust *Puccinia striiformis* f. sp. *tritici* and identifies sources of resistance to them. Journal of Crop Breeding (Article on Arbitration)
- 7- **Omrani, A.**, Aharizad, S. Roothparvar, R., Toorchi, M., and Khodarahmi, M. 2016. Genetic Study of Wheat Stem Rust Races and Evaluation of Resistance Sources. Seed and Plant Improvement Journal. (Article on Arbitration)
- 8- **Omrani, A.**, Aharizad, S. Roothparvar, R., Toorchi, M., and Khodarahmi, M. 2016. Detection of Resistance Sources to Iranian Prevalent Stem Rust Races in some Synthetic Genotypes of Wheat. Iranian Journal of Crop Sciences. (Article on Arbitration)
-

WORKSHOP AND CONFERNCES

Khodarahmi, M., **Omrani, A.**, and Afshari, F. 2012. Resistance to stripe rust in promising lines and breadwheat cultivars. BGRI (Borlaug Global Rust initiative) 2012 technical workshop, September 1-4, Beijing China, pp 174. globalrust.org

ATTENDENCE IN CONFERANCES

- Participation in 12th Iranian genetics congress. May 21-23, 2012, Tehran, Iran.
 - Participation in 9th National Biotechnology Congress of Islamic Republic of Iran, 6-8 July, 2013.
 - Participation in 1st International and 13th Iranian Genetic congress, 24-26 May, 2014, Tehran, Iran.
 - Participation in 1st International and 13th Iranian Crop Science congress, 3rd Iranian Seed Science and Technology Congress, 26-28 August, 2014, Iran.
 - Participation in 2nd international and 14th Iranian genetic congress, May 21-23, 2016, Tehran, Iran.
-

LANGUAGES

- **English**
 - **Persian**
 - **Turkish**
-