

## Curriculum Vitae



**Full Name:** Hooman Salari

**Address (at work):**

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**Date of Birth:** 21-March-1970

**Citizenship:** Iran

**Employment Status:** Assistant Professor

**Current Employer:** Razi University

**Education:**

**PhD:** Biotechnology (Biochemistry and Molecular Biology)  
Thesis: Characterization of the *NMT* gene family in *Arabidopsis*  
Thesis supervisor: A/Prof. Josette Masle  
The Australian National University- Canberra, Australia

**MSc:** Plant Breeding

Thesis: Study the genetic diversity of high molecular weight glutenin subunits in beard wheat landraces of western of Iran  
Thesis supervisors: Prof. S. Abd-Mishani and Prof. M.R. Ghanadha  
University of Tehran- Tehran, Iran

**BSc:** Agronomy and Plant Breeding

Shiraz University- Shiraz, Iran

**High School Diploma:** Natural Sciences

Engheleb High School- Kermanshah, Iran

**Fellowship:**

- (2002-2003) Overseas English courses fellowship from The Iranian Ministry of Science, Research and Technology
- (2004-2008) PhD fellowship from The Iranian Ministry of Science, Research and Technology
- (2008-2009) Visiting fellow from The Australian National University, Research School of Biology, Functional Ecology Group, Prof. Marilyn Ball Lab.

**Research Interest:**

- Plant breeding in respect to abiotic and biotic stresses
- Plant molecular biology (emphasis on genetic engineering) with the purpose of plant breeding
- Abiotic stress physiology
- Metabolic Engineering concerning improvement medicinal plant with emphasis on *Papaver* genus

**Teaching Experience:**

**Undergraduate Courses:**

- Genetics
- Plant Breeding
- Statistical Experimental Design and Analysis

**Postgraduate Courses:**

- Genetic Engineering (MSc)
- Advanced Genetics (MSc)
- Abiotic stress in plants- Physiology, Breeding and molecular biology (PhD)
- Parasite Plants (with respect to Plant Breeding) (PhD)
- Bioinformatics (PhD)

**Work History:**

- (1998) Lecturer, Agronomy and Plant Breeding Department, College of Agriculture and Natural Resources, Razi University, Kermanshah, Iran
- (1998-2002) Lecturer, Agronomy and Plant Breeding Department, Islamic Azad University (Kermanshah branch), Iran
- (1999-2001) Deputy Vice Chancellor- educational affairs, Islamic Azad University (Kermanshah branch)-Iran
- (2008) Wheat Breeder- CSIRO- Canberra, Australia
- (2008-2009) Visiting fellow- The Australian National University (Collaborating with UCLA)- Canberra, Australia
- (2009-present) Assistant Professor-Agronomy and Plant Breeding Department, College of Agriculture and Natural Resources, Razi University, Kermanshah, Iran
- (2010-2012) Director General-Research, Razi University, Kermanshah, Iran
- (2014-2015) Director General-Research, Razi University, Kermanshah, Iran

**Membership of Learned Societies:**

- Iranian Society of Agronomist and Plant Breeders
- Iranian Society of Medicinal Plant Experts
- Iranian Society of Biotechnologist

## Postgraduate Students Supervisor:

### PhD Students

- Farnaz Jalai (Plant Protection) - Graduated
- Zahra Zangishei (Molecular Genetics and Genetic Engineering)

### MSc Students

- Pegah Farhadi (Biotechnology)- Graduated
- Nima Baghbani (Biotechnology) - Graduated
- Fataneh Gholamiyan (Plant Breeding) - Graduated
- Arezoo Jalilvand (Plant Breeding) - Graduated
- Habibeh Hosseini (Biotechnology) - Graduated
- Lila Bagheri (Biotechnology) - Graduated
- Feridoon Soroori (Biotechnology) - Graduated
- Ali Omrani (Plant Breeding) - Graduated
- Zhara Zangishei (Biotechnology) - Graduated
- Vahid Broon (Biotechnology) - Graduated
- Aram Arshadi (Plant Breeding) - Graduated
- Samira Paydar (Biotechnology) - Graduated
- Elnaz zamani (Plant Breeding) - Graduated
- Sajad Asadi (Biotechnology) - Graduated
- Masoud Kamari (Plant Breeding) - Graduated
- Masoome Khosravi (Biotechnology)
- Neda Hasani (Biotechnology)
- Mazin Eidan Hadi Al-Hameery (Biotechnology)
- Sepideh Mirzaei (Biotechnology)

## Current Projects and Recent Grants

- Roles of Glycine-Betaine in Improving Plant Abiotic Stress Resistance
  - Characterization of the *choline monoxygenase (CMO)* gene family in *Arabidopsis*. Characterization of the *Betaine aldehyde dehydrogenase (BADH)* gene family in *Arabidopsis*.
  - Alleviation of the drought and salinity stress on chickpea by exogenous application of Glycine-betaine.
  - Alleviation of the drought and salinity stress on common bean by exogenous application of Glycine-betaine.
  - Gene expression profiling for *S-adenosyl-L-methionine:phosphoethanolamine N-methyltransferase (PEAMT)* genes, *Choline monoxygenase (CMO)*; *Betaine aldehyde dehydrogenase (BADH)* in wheat.
- Study of the plants of *Papaver* genus (poppies) grown in west of Iran
  - Karyotype characters of several *Papaver* species grown in western part of Iran.
  - The morphological diversity of aerial traits of several *Papaver* species grown in western part of Iran.
  - Molecular characterization of opium Poppy (*Papaver somniferum*) grown in western part of Iran.
- Study of the saffron (*Crocus sativus* L.)
  - Genetic diversity

- The effects of exogenous application of nutrients and hormones
- Study of the Broomrape (*Orobanche sp.*)
  - Different aspects related to tomato (*Solanum lycopersicum*)
  - Different aspects related to sunflowers (*Helianthus annuus*)

**Distinguished Publications:**

Choat B., Medek D. E., Stuart S. E., Pasquet-Kok J., Egerton J. J., Salari H., Sack L., and Ball M. C. (2011). Xylem traits mediate a trade-off between resistance to freeze–thaw-induced embolism and photosynthetic capacity in overwintering evergreens. *New Phytologist* DOI: 10.1111/j.1469-8137.2011.03772.x

Zangishei Z., and Salari H. (2015). Monitoring the Expression Pattern of Genes Coding Betaine Aldehyde Dehydrogenase (BADH) Enzyme in Arabidopsis under Drought Stress. *Modern Genetics*. 11(3), 319-326

Zangishei Z., and Salari H. (2015). Monitoring the Expression Pattern of Genes encoding S-denosyl-L-methionine:phosphoethanolamine N-methyltransferase (PEAMT) enzyme in Arabidopsis under Drought Stress. *Journal of Molecular and cellular Research*. 28(4), 539-550

Zangishei Z., Bagheri L., and Salari H. (2017). Effects of Salinity, Drought and Osmotic Stress on Expression Pattern of Choline Monoxygenase (CMO) in Arabidopsis. *Modern Genetics*.