

BIODATA

1. PERSONAL DATA



Full Name: **SEYYED ABOLGHASEM MOHAMMADI**

Sex: **Male**

Date of Birth: **11th August 1966**

Place of Birth: **Macoo, West Azarbijan, IRAN**

Present Address: **Genomics and Molecular Breeding Lab.,
Department of Plant Breeding & Biotechnology,
Faculty of Agriculture, University of Tabriz,
Tabriz 51666, IRAN**

Nationality: **Iranian**

Marital status: **Married, one children**

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2. EDUCATIONAL QUALIFICATIONS

Degree	University	Year	Subject	Percentage/GPA
B.Sc.	University of Tabriz, Iran	1991	Agronomy & Plant Breeding	18.11/20
M.Sc.	University of Tabriz, Iran	1993	Plant Breeding	19.00/20
Ph.D.	IARI, India	2001	Genetics <i>Major:</i> Plant Breeding <i>Minors:</i> Molecular Biology & Biotechnology, Statistical Genetics	3.87/4 (19.35/20)

3. OCCUPATION

Lecturer: July 1993 till September 1997, Department of Agronomy and Plant Breeding, Faculty of Agriculture, University of Tabriz, Tabriz, Iran.

Assistant Professor: September 2001 till September 2005, Department of Agronomy and Plant Breeding, Faculty of Agriculture, University of Tabriz, Tabriz, Iran

Associate Professor: September 2005 till February 2009, Department of Agronomy and Plant Breeding, Faculty of Agriculture, University of Tabriz, Tabriz, Iran

Professor: February 2009 till now, Department of Plant Biotechnology and Breeding, Faculty of Agriculture, University of Tabriz, Tabriz, Iran

4. INTERESTED RESEARCG EREA

- Analysis of Genetic diversity and population structure using molecular markers
- QTL Mapping using genome scanning methods and Candidate gene approaches
- Molecular breeding and Genomic prediction for abiotic and biotic stress
- Analysis of Gene expression
- Isolation, cloning and sequencing RGAs

5. TEACHING ACTIVITY

Principal of Plant Breeding: BSc, 1993 till 1995 (University of Tabriz)

Experimental Designs: BSc, 1993 till 1997 (University of Tabriz)

Advanced Experimental Designs: MSc, 1994 till 1997 (University of Tabriz)

Applications Statistical Packages in Plant Breeding and Statistics: MSc, 1995 till 1997 (University of Tabriz)

Research Methodology: MSc, 1995 till 1997 & 2001 till 2004 (University of Tabriz)

Innovative Approaches in Plant Breeding: MSc, 1999 till 2000 (Division of Genetics, Indian Agricultural Research Institute, India)

Innovative Approaches in Plant Breeding: MSc, 2001 till now (University of Tabriz)

Quantitative Genetics: MSc, Students 2001 till now (University of Tabriz)

Plant Biotechnology: MSc, 2003 till now (University of Tabriz)

Advanced Molecular Genetics: PhD, 2001 till now (University of Tabriz)

Biometrical Genetics: PhD, 2001 till now (University of Tabriz)

Statistical Genomics: PhD, 2002 till now (University of Tabriz)

Molecular Population Genetics: PhD, 2004-2005 (University of Mashhad)

Applications of Computer in Plant Breeding and Biometrical Genetics: PhD, 2005 (University of Tarbeat Modares)

Bioinformatics: PhD, 2006 (Esfahan University of Technology)

Biostatistics: PhD, 2004 till 2010 (Tabriz University of Medical Sciences)

Applications of Software in Genetic and Molecular Data Analysis: PhD, 2017 till now (University of Tabriz)

Genomics: MSc, 2017 till now (University of Tabriz)

Functional Genomics: MSc, 2017 till now (University of Tabriz)

6. SCIENTIFIC SOCIETY MEMBER

- Iranian Society of Agronomy & Plant Breeding
- Iranian Society of Genetics
- Iranian Society of Biotechnology
- Asian Maize Biotechnology Network
- Indian Society of Genetics & Plant Breeding
- EUCARPIA (European Association for Research on Plant Breeding)

7. AWARDS

- Awarded **first ranked student for outstanding academic performance in B.Sc., 1991.**
- Awarded **first ranked student for outstanding academic performance in M.Sc., 1993.**
- Awarded **best researcher of Tabriz university for outstanding research works, 2004.**
- Awarded **best researcher of Tabriz university for outstanding research works, 2007.**
- Awarded **Influential Figure of Agronomy and Plant Breeding**, Iranian Society of Crop Science, 2016.

8. RESEARCH PROJECTS

Project Title	Project funded	Date	
		From	To
Evaluation of sainfoin (<i>Onobrychis viciaefolia</i> Scop.) landraces in different plant densities.	National program	1999	2002
Analysis of genetic diversity, heterotic grouping and prediction of hybrid performance in Iranian maize germplasm using molecular markers and agronomic characters.	Center in Excellence for Plant Molecular Breeding & SPII	2002	2007
QTL mapping for cold tolerance in rapeseed using molecular Markers.	Center in Excellence for Plant Molecular Breeding	2001	2005
Analysis of genetic diversity in <i>Silybum marinum</i> (medical plant) using molecular marker and its relationship with medicinal properties.	Center in Excellence for Plant Molecular Breeding	2002	2007
Identification of molecular markers for cold tolerance in wheat (<i>Triticum aestivum</i>).	Center in Excellence for Cereal Molecular Breeding	2003	2007
Analysis of genetic diversity in wheat genotypes using microsatellite markers and identification of informative markers for rust resistance related characters.	Center in Excellence for Cereal Molecular Breeding & SPII	2005	2007
Association analysis and genetic parameters estimation for frost tolerance in bread wheat using microsatellite markers.	Center in Excellence for Cereal Molecular Breeding	2005	2007
Mapping of genes controlling yellow rust resistance in wheat using molecular markers.	Center in Excellence for Cereal Molecular Breeding & SPII	2005	2008
Identification of chromosomal locations related to winter survival in lines derived from a cross between <i>Brassica napus</i> genotypes Quantum and SLMO46.	Unv. of Tabriz (Research Grant)	2006	2007
<i>In vitro</i> production of <i>Silybum marinum</i> flavonoides and analysis of somaclonal variations using molecular markers to select optimal cell lines.	Iranian National Scientific Foundation	2006	2010
Analysis of nucleotide diversity in yellow and leaf rust resistance genes in wheat and development of SNP markers	Center of Excellence for Cereal Molecular Breeding	2007	2010
Development of molecular descriptor and identification key for commercial apricot cultivars	SPCRI	2008	2011
Development of molecular descriptor and identification key for commercial grape cultivars	SPCRI	2008	2011
Analysis of milk thistle population structure using morphological traits, biochemical attributes and AFLP markers and their relations with secondary metabolites	Center of Excellence in Plant Molecular Breeding	1995	2011
Association mapping for phosphorus uptake efficiency in barley landraces using SSR markers	Center of Excellence in Plant Molecular Breeding & DARI	2011	2014

8. RESEARCH PROJECTS (count.)

Project Title	Project funded	Date	
		From	To
QTL mapping for salinity in barley DH population	Center of Excellence in Plant Molecular Breeding & SPII	2011	2015
Mapping of QTLs for drought tolerance related traits in spring wheat recombinant inbred lines population	National Center for Genetic Engineering and Biotechnology	2011	2013
Analysis of molecular diversity, population structure and linkage disequilibrium in barley lamndraces using SSR and EST-SSR markers	Unv. of Tabriz (Reasech Grant)	2013	2017
Identification of QTLs conferring cold tolerance in winter wheat	Ataturk University, Erzurum, Turkey	2013	
Genetic Dissection of Quantitative Loci for Traits Associated with Drought Tolerance in Spring Wheat	Ataturk University, Erzurum, Turkey	2013	
Mining the <i>Aegilops tauschii</i> gene pool using Retrotransposon insertional polymorphisms, wheat functional and microsatellite markers to identify putative candidate genes	Iranian National Scientific Foundation	2017	
Comparative assessment of IRAP, REMAP, SCoT and EST-SSR markers for inferring the population structure of the <i>Artemisia annua</i>	Iranian National Scientific Foundation	2017	
Speed Breeding (Development of new bread and durum wheat genotypes)	Vice-Presidency for Scince and Technology	2019	
Genome wide association study for identification of genomic region for agronomic and bread making quality traits using DArT-seq	Vice-Presidency for Scince and Technology- Biotechnoology Development Council	2019	

9. WORKSHOP

- Asian Maize Biotechnology Network Training Program on Applications of Molecular Markers for Maize Improvement. March 6-7 2000, New Delhi, India. (Resource Person).
- International workshop on "DNA Molecular Marker Techniques for Crop Improvement" Sponsored by the AREEO and ICARDA, (Lecturer).
- Workshop on "Wheat Transformation", Sponsored by the ABRII and ICARDA, ABRII Karaj, Iran, October 26-30 2002 (Participant).
- Workshop on "Bioinformatics" ABRII, Karaj, Iran, December 8-11 2002 (Lecturer).
- Workshop on "Applications of Multivariate Statistical Methods in Genetics and Molecular Plant Breeding" University of Tabriz, Iran, April 5-8 2005 (Organizer and Lecturer).
- Workshop on "Applications of Gene Transferring Methods and Molecular Markers in Improvement of Horticultural Crops" University of Gorgan Agriculture and Natural Resources, Gorgan, Iran, July 11-12 2005 (Organizer and Lecturer).
- Workshop on "Analysis of Next Generation Sequencing Data Analysis" Center of Excellence in Cereal Molecular Breeding & Agricultural Biotechnology Research Institute, Northwest and West Branch, Tabriz, Iran, January 24-26 2017.

10. PUBLICATIONS

Journals (Started from most recent)

- Amiri S., R. Fotovat R., A.R. Tarinejhad, B. Panahi and **S.A. Mohammadi**. 2019. Optimization of hormonal combinations for *in vitro* regeneration of lesser periwinkle (*Vinca minor L.*) and assessment of genetic homogeneity. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci., doi.org/10.1007/s40011-019-01141-6.
- Hamza H., A. Asghari, **S.A. Mohammadi**, O. Sofalian, S. Mohammadi, M. Nouraein and M. Khalili. 2019. Mapping main and epistatic QTL and their interaction with environment for traits related to spike characteristics in recombinant inbred lines of spring wheat. Crop Biotech., 8: 81-91 (In Persian).
- Maleki M.J., M. Pourhassan-Moghaddam, A. Karimi, A. Akbarzadeh, N. Zarghami, and **S.A. Mohammadi**. 2019. Synthesis, characterisation, and application of chamomile gold nanoparticles in molecular diagnostics: a new component for PCR kits. Biointerface Res. Appl. Chem., doi.org/10.33263/BRIAC96.635641.
- Panahi, B., **S.A. Mohammadi** and H. Doulati-Baneh. 2019. Characterization of Iranian grapevine cultivars using machine learning models. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. https://doi.org/10.1007/s40011-019-01131-8.
- Panahi, B., **S.A. Mohammadi**, K. Ruzicka, H. Abbasi Holaso and M. Zare Mehrjerdi. 2019. Genome-wide identification and co-expression network analysis of nuclear factor-Y in barley revealed potential functions in salt stress. Physiol. Mol. Biol. Plants, https://doi.org/10.1007/s12298-018-00637-1.
- Shamekhi, S., J. Abdolalizadeh, A.R. Ostadrabimi, **S. A. Mohammadi**, A. Barzegari, H. Lotfi, E. Bonabi and N. Zarghami. 2019. Apoptotic Effect of *Saccharomyces cerevisiae* on human colon cancer SW480 cells by regulation of Akt/NF- κ B signaling pathway. Probiotics Antimicro Proteins https://doi.org/10.1007/s12602-019-09528-7.
- Dadashpour, M., Y. Pilehvar-Soltanahmadi, **S.A. Mohammadi**, N. Zarghami, M. Pourhassan-Moghaddam, E. Alizadeh, M.J. Maleki, A. Firouzi-Amandi, M. Nouri. 2018. Watercress-based electrospun nanofibrous scaffolds enhance proliferation and stemness preservation of human adipose-derived stem cells. Artificial Cells, Nanomed. Biotech., 4: 819–830. doi.org/10.1080/21691401.2017.1345925.
- Feizi M., M. Solouki, B. Sadeghzadeh, B. Fakheri, **S. A. Mohammadi**. 2018. Evaluation of genotypic variation for seed iron content and concentration in barley genotypes under dryland conditions. J. Plant Ecophysiol., 40: 129-139.
- Fekri Avala, S., N. Zarghamia, E. Alizadehb, **S.A. Mohammadi**. 2018. The effect of ketorolac and triamcinolone acetonide on adipogenic and hepatogenic differentiation through miRNAs 16/15/195: Possible clinical application in regenerative medicine. Biomed. Pharmacother., 97: 675-683.
- Ghorbani, R., **S.A. Mohammadi**, M. Toorch and S. Ghaffarian. 2018. Transcriptional changes of *BFRUCT3*, *NHX1*, OMT and *PEAMT* genes in root of barley (*Hordeum vulgare L.*) under salinity stress. Pak. J. Bot., 50: 735-740.
- Moghaddas Sani, H., M. Hamzeh-Mivehroud, A.P. Silva, J.L. Walshe, **S.A. Mohammadi**, M. Rahbar-Shahrouzias, M. Abbasi, O. Jamshidi, J. K.K. Low, S. Dastmalchi and J.P. Mackay. 2018. Expression, purification and DNA-binding properties of zinc finger domains of DOF proteins from *Arabidopsis thaliana*. BioImpacts, 8: 167-176.
- **Mohammadi S.A.**, M.A. Mohammadi Aghadam. 2018. Genomics from laboratory to field: production of high yielding and environmental stresses tolerant wheat genotypes. Strategic Res. J. Agric. Sci. Nat. Res. 3: 135-152.
- Panahi, B., **S.A. Mohammadi**. 2018. Function of alternative splicing in plants. Modern Genet., 1: 1-19
- Tabrizivand Taheri, M., S.S. Alavi-Kia, **S.A. Mohammadi** and M. Moghaddam Vahed. 2018. Assessment of genetic diversity and relationships among *Triticum urartu* and *Triticum boeoticum* populations from Iran using IRAP and REMAP markers. Genet. Resour. Crop Evol., https://doi.org/10.1007/s10722-018-0660-3.

- Barati, A., M. Moghaddam, **S.A. Mohammadi**, H.A. Qhazvini and B. Sadeghzadeh 2017. Identification of QTLs associated with agronomic and physiological traits under salinity stress in barley. *J. Agric. Sci. Technol.*, 19: 185-200.
- Ebrahimi, M., A.A. Safari Sinegani, M.R. Sarikhani, **S.A. Mohammadi**. 2017. Comparison of artificial neural network and multivariate regression models for prediction of Azotobacteria population in soil under different land uses. *Comput. Electron. Agric.*, 140: 409-421.
- Fattah1, S.H., S. Abdollahpour, H.R. Ghassemzadeh, H. Behfar, **S.A. Mohammadi**. 2017. Regression model of sunflower seed separation and the investigation of its germination in corona field. *Agric. Eng. Int.*, 2: 187-192.
- Fattah1, S.H., S. Abdollahpour, H.R. Ghassemzadeh, H. Behfar, **S.A. Mohammadi**. 2017. Sunflower's seed separation in high-intensity electric field. *Agric. Eng. Int.*, 2: 193-199.
- Hamza, H., A. Asghari, **S.A. Mohammadi**, O. Sofalian, S. Mohammadi, 2017. Multifactorial mapping of QTL for yield and yield component in wheat (*Triticum aestivum*) in normal and drought conditions. *Appl. Ecol. Environ. Res.*, 16: 441-453.
- Jamali, S.H., **S.A. Mohammadi** and B. Sadeghzadeh. 2017. Assessment of morphological diversity and population structure in barley landraces and advanced breeding lines. *Biological Forum*, 9: 28-36.
- Lotfi, H., M.A. Hejazi, M.K. Heshmati, **S.A. Mohammadi**, N. Zarghami. 2017. Optimizing expression of antiviral cyanovirin-N homology gene using response surface methodology and protein structure prediction. *Cell. Mol. Biol.*, 63: 96-105.
- Parikhani, Z., B. Sadeghzadeh, **S.A. Mohammadi**. 2017. Identification of QTLs for grain weight in barley doubled haploid population. *J. Agric. Biotech.*, 2: 15-30 (In Persian).
- Alipour, Kh., **S.A. Mohammadi**, M. Moghadam and B. Sadeghzadeh. 2016. Transferability and polymorphism of barley SSR markers in analysis of phylogenetic relationships of *Triticum* and *Hordeum* genera. *Iranian J. Crop Sci.*, 2: 104-119 (In Persian).
- Ehdaie, B., **S.A. Mohammadi** and M. Nouraein. 2016. QTLs for root traits at mid-tillering and for root and shoot traits at maturity in a RIL population of spring bread wheat grown under well-watered conditions. *Euphytica*, doi: 10.1007/s10681-016-1670-x
- Hussain, S., Z. Rengel, **S.A. Mohammadi**, A. Ebadi-Segherloo and M.A. Maqsood. 2016. Mapping QTL associated with remobilization of zinc from vegetative tissues into grains of barley (*Hordeum vulgare*). *Plant Soil*, 399:193–208.
- Li, B., Y. Zhang1, **S.A. Mohammadi**, D. Huai, Y. Zhou and D.J. Kliebenstein1. 2016. An integrative genetic study of rice metabolism, growth and stochastic variation reveals potential C/N partitioning loci. *Nat. Sci. Rep.*, 6:30143 |doi: 10.1038/srep30143.
- Masoumi, P., R. Farshbaf Pourabad, **S.A. Mohommadi** and R. Khakvar. 2016. Effect of four different nutrition regimes on the alpha-amylase gene expression in the Indian moth, *Plodia interpunctella*. *Annales de la Société entomologique de France* (N.S.), doi: 10.1080/00379271.2016.1175965.
- Sahebi, L., K. Ansarin, S. Hoffner, P. Mohajeri and S.A. Mohammadi. 2016. Beijing strains of *Mycobacterium tuberculosis* in smear- positive tuberculosis patients in North- West and West of Iran. *Adv. Biomed. Res.*, 5: 181 doi: 10.4103/2277-9175.190982.
- Salami, R., **S.A. Mohammadi**, S. Ghafarian and M. Moghaddam. 2016. Expression analysis of *Hv TIP2;3* and *Hv TIP4;1* in sensitive and tolerant barley genotypes under salinity stress. *J. Genet. Res.*, 2: 1-14 (In Persian).
- Shariat, F., **S.A. Mohammadi**, M. Norouzi and M. Valizadeh. 2016. Allelic diversity of low-molecular-weight glutenin subunit genes in Iranian winter wheat landrace. *Cereal Res.*, 6: 65-77 (In Persian).
- Zarei Abbasabad, E., **S.A. Mohammadi**, M. Moghaddam and M.R. Jalal Kamali. 2016. Analysis of genetic diversity, population structure and linkage disequilibrium in Iranian wheat landraces using SSR markers. *Plant Genet. Resour.*, doi:10.1017/S1479262115000684.

- Asadkhani Mamaghani, R., **S.A. Mohammadi** and S. Aharizad. 2015. Transferability of barley retrotransposon primers to analyze geneticstructure in Iranian *Hypericum perforatum* L. populations. Turk. J. Bot., 39: 664-672.
- Azadi, A., M. Mardi, E. Majidi Hervan, **S.A. Mohammadi**, F. Moradi, M.T. Tabatabaei, S.M. Pirseyedi, M. Ebrahimi, F. Fayaz, M. Kazemi, S. Ashkani, B. Nakhoda and G. Mohammadi-Nejad. 2015. QTL mapping of yield and yield components under normal and salt-stress conditions in bread wheat (*Triticum aestivum* L.). Plant Mol. Biol. Rep., 33:102-120.
- Ghaffarian S., **S.A. Mohammadi**, M. Toorchi and Y. Omidi. 2015. Quantitative gene expression analysis of *NHX1* and *HvPIP2;1* in barley (*Hordeum vulgare* L.) under salinity stress. J. Biodive. Environ. Sci., 7: 207-219.
- Hajiboland, R., N. Sadeghzadeh, N. Ebrahimi2, B. Sadeghzadeh and **S.A. Mohammadi**. 2015. Influence of selenium in drought-stressed wheat plants under greenhouse and field conditions. Acta Agric. Sloven., 105: 175 – 191.
- Jabari, H., G.R. Niknam, **S.A. Mohammadi** and Z. Tanha Maafi. 2015. Effect of temperature, life stage and soil drainages of host and non-host plants on hatching of cabbage cyst nematode, *Heterodera cruciferae*. Plant Dis., 1: 83-95 (In Persian).
- Masoumi, P., R. Farshbaf Pourabad, **S.A. Mohommadi** and R. Khakvar. 2015. Effect of four different nutrition regimes on the alpha-amylase gene expression in *Plodia interpunctella* Hubner (Lepidoptera: Pyralidae). J. Appl. Res Plant Dis., 4: 141-152 (In Persian).
- **Mohammadi S.A.**, R. Hemati and S. Aharizad. 2015. Nucleotide diversity of leaf rusts resistance genes *Lr29* and *Lr47* genomic regions in bread wheat lines (*Triticum aestivum* L.). J. Appl. Res Plant Dis., 4: 1-11 (In Persian).
- Mohammadi, D., R. Farshbaf Pour Abad, M.R. Rashidi and **S.A. Mohammadi**. 2015. Circadian variation in midgut digestive enzyme activity in cotton bollworm *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae). J. Asia-Pacific Entomol., 18: 117-121.
- Panahi, B., **S.A. Mohammadi**, R. Ebrahimi Khaksefidi, J. Fallah and E. Ebrahimie. 2015. Genome-wide analysis of alternative splicing events in *Hordeum vulgare*: Highlighting retention of intron-based splicing and its possible function through network analysis. FEBS Letters, S0014-5793(15)00872-8. doi: 10.1016/j.febslet.2015.09.023.
- Shariat, F., **S.A. Mohammadi**, M. Norouzi and M. Valizadeh. 2015. Allelic diversity of low molecular weight glutenin subunit at *Glu-A3*, *Glu-B3* and *Glu-D3* loci in Iranian spring bread wheat landraces. Iranian J. Crop Sci., 17:74-87 (In Persian).
- Torabi-Giglou, M., J. Panahandeh, **S.A. Mohammadi**, F. Zaree Nahandi, A. Motallebi Azar and J. Śliwka. 2015. DNA and morphological diversity and relationship analysis of selected cultivated, wild potatoes and some promising hybrids. J. Biodiver. Environ. Sci., 6: 175-186.
- Zarei Abbasabad, E., **S.A. Mohammadi**, M. Moghaddam and M.R. Jalal Kamali. 2015. Variation in the first intron of *VRN-1* gene in winter and spring Iranian wheat landraces. Biological Forum, 7: 395-400.
- Abdollahi Sisi, N., **S.A.Mohammadi**, S.S. Alavi Kia and B. Sadeghzadeh. 2014. Allelic diversity of SSR markers in barley landraces and lines. Seed Plant Improv. J., 30: 477-492 (In Persian).
- Doulati-Baneh, H., **S.A. Mohammadi**, M. Labra, F. De Mattia, I. Bruni, V. Mezzasalma and R. Abdollahi. 2014. Genetic characterization of some wild grape populations (*Vitis vinifera* subsp. *sylvestris*) of Zagros Mountains (Iran) to identify a conservation strategy. Plant Genet. Resour.: Charact. Utiliz. DOI 10.1017/S1479262114000598.
- Gheitaran Poorsahigh, S., **S.A. Mohammadi** and B. Sadeghzadeh. 2014. Identification of genomic regions associated with iron accumulation at seed of barley doubled haploid population. Cereal Res., 4: 329-342 (In Persian).

- Karimzadeh, R., M.J. Hejazi, H. Helali, S. Iranipour and **S.A. Mohammadi**. 2014. Predicting the resting sites of *Eurygaster integriceps* Put. (*Hemiptera: Scutelleridae*) using a geographic information system. *Precision Agric.* 15: 615-626.
- Khodarahmi, M., **S.A. Mohammadi**, M.R. Bihamta, E. Majidi and M.R. Jalal Kamali. 2014. Inheritance and combining ability of yellow rust resistance in some bread wheat commercial cultivars and advanced lines. *Seed Plant Improv. J.*, 30: 531-544 (In Persian).
- Mahmoudi, B., B. Panahi, **S.A. Mohammadi**, M. Daliri and M.S. Babayev. 2014. Microsatellite based phylogeny and bottleneck studies of Iranian indigenous goat populations. *Animal Biotech.*, 25: 210-222.
- Miri Kondori, M., **S.A. Mohammadi** and A. Bandehhagh. 2014. Effect of salinity on root characteristics of Sahara 3771 (salt tolerant) and Clipper (salt sensitive) barley varieties. *Cereal Res.*, 1: 175-184 (In Persian).
- Ramazani-Moghaddam, MR., E. Majidi-Haravan, HR. Zamanizadeh, **S.A. Mohammadi** and M. Azizi. 2014. Study of genetic diversity and relationships among some diploid and tetraploid cotton genotypes of Iran using RAPD Markers. *Iranian J. Cotton Res.*, 1: 75-91.
- Saadatian, H., J. Gharesouran, V. Montazeri, **S.A. Mohammadi** and S.M. Mohaddes Ardabili. 2014. Polymorphism of the cytochrome P-450 1A1 (A2455G) in women with breast cancer in Eastern Azerbaijan, Iran. *Iran J. Basic Med. Sci.*, 17: 227-230.
- Shahinnia, F., A.M. Razaei, B.I. Seyyed Tabatabaei and **S.A. Mohammadi**. 2014. QTL Mapping of yield and yield components in barley lines. *Seed Plant Improv. J.*, 30: 85-101 (In Persian).
- Zarei Jaliani, H., S. Farajnia, Y. Safdari, **S.A. Mohammadi**, A. Barzegar and S. Talebi. 2014. Optimized condition for enhanced soluble-expression of recombinant mutant *Anabaena Variabilis* phenylalanine ammonia lyase. *Adv. Pharmaceut. Bull.*, 4: 261-266.
- Abasszadeh, M., **S. A. Mohammadi**, M. Moghadam and B. Sadeghzadeh. 2013. Mapping QTLs related to boron uptake and accumulation in shoots of barley at seedling and maturity stages using microsatellite markers. *Iranian J. Crop Sci.*, 15: 71-88 (In Persian).
- Derakhshan, B., **S. A. Mohammadi**, M. Moghaddam, and M.R. Jalal Kamali. 2013. Molecular characterization of vernalization genes in Iranian wheat landraces. *Crop Breed. J.*, 3: 1-11.
- Doulti-Baneha, H., **S.A. Mohammadia**, and M. Labra. 2013. Genetic structure, diversity analysis and pedigree construction in *Vitis vinifera* L. cultivars from Iran using SSR markers. *Sci. Hort.*, 27: 29-36.
- Doulati-Baneh, H., **S.A. Mohammadi**, B. Abdollahi Mandoulakani and S. Rahmanpour. 2013. Association analysis for morphological traits in grapevine using SSR and AFLP markers. *J. Agric. Biotech.*, 1: 46-60 (In Persian).
- Firouzi, A., **S. A. Mohammadi**, M. Khosrowchahli, A. Movafeghi and T. Hasanloo. 2013. Enhancement of silymarin production in cell culture of *Silybum marianum* (L) Gaertn by elicitation and precursor feeding. *J. Herbs Spices Med. Plants*, 19: 262-274.
- Golmohammadi, Gh., M. Hejazi, Sh. Iranipour and **S.A. Mohammadi**. 2013. Sublethal effects of three insecticides on adults green lacewing *Chrysoperla carnea* Stephens with demographic toxicology method. *Plant Pest Dis.*, 1: 73-82 (In Persian).
- Nouraein, M., **S.A. Mohammadi**, S. Aharizad, M. Moghaddam and B. Sadeghzadeh. 2013. Evaluation of drought tolerance indices in wheat recombinant inbred line population. *Ann. Biol. Res.*, 4: 113-122.
- Panahi, B., **S.A. Mohammadi** and E. Ebrahimie. 2013. Identification of miRNAs and their potential targets in halophyte plant *Thellungiella halophile*. *BioTechnologia*, 94: 285-290.
- Sahebi, L., S. Dastgiri, K. Ansarin, R.Sahebi, and **S.A.Mohammadi**. 2013. Study designs in genetic epidemiology. *ISRN Genet.*, <http://dx.doi.org/10.5402/2013/952518>.
- Shahinnia, F., A. Rezai, B.E. Sayed-Tabatabaei, T. Komatsuda, and **S.A. Mohammadi**. 2103. QTL mapping of yield and yield components in barley lines. *Seed Plant Improv. J.*, 1: 85-101 (In Persian).

- Shuorvazdi, A., **S.A. Mohammadi**, M. Norozi and B. Sadeghzadeh. 2013. Molecular analysis of genetic diversity and relationships of barley landraces based on microsatellite markers. *Plant Genet. Res.*, 1: 51-64 (In Persian).
- Zarei Jaliani, H., S. Farajnia, **S.A. Mohammadi**, A. Barzegar and S. Talebi. 2013. Engineering and kinetic stabilization of the therapeutic enzyme *Anabeana variabilis* phenylalanine ammonia lyase. *Appl. Biochem. Biotechnol.*, 171:1805-1818.
- Abdollahi-Sisi, N., **S.A. Mohammadi**, S.S. Alavi-kia and B. Sadeghzadeh. 2012. Efficiency of EST-SSR markers in determination genetic diversity and relationships of barley landraces. *Cereal Res.*, 2: 123- 133 (In Persian).
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11. Thesis Supervision

Master Thesis Supervision

No	Student Name	Thesis Title
1	G. Rakhshandeh	Response of hull less barley to drought stress
2	A. Sabouri	Evaluation of wheat genotypes under salt stress
3	N. Mohebalipour	Analysis of genetic diversity in rapeseed genotypes using microsatellite and RAPD markers
4	M. RahimMalek	Saturation of wheat microsatellite linkage map using AFLP markers
5	M.S. Sabet	Analysis of genetic relationship in maize inbred lines using microsatellite markers
6	M.R. KhalafBaghi	Analysis of genetic diversity in wheat genotypes using molecular markers
7	K. Rahami	Cellular-molecular effect of <i>Agrobacterium rhizogenes</i> on <i>Arnebia euchroma</i> selected cells
8	F. Shayegh	Grouping of winter rapeseed genotypes using molecular markers
9	M.B. Razmian	Evaluation of early and medium maturity maize hybrid under drought stress
10	H. AbasiRostami	Combining ability of tobacco agronomic characters
11	P. Abdollahi	SSR heterotic pattern of parents and hybrid performance in rapeseed
12	R.Khoshabeh	Analysis of morphological characters diversity in west Azarbijan tomato local populations
13	M. AhmadiAfzadi	Use of amplified fragment length polymorphism (AFLP) for genetic diversity analysis in some species of pistachio
14	M. Nuoraien	Molecular polymorphism of parents in relation to genetic parameters for cold tolerance in bread wheat
15	A. PourJabbar	Optimization of <i>in vitro</i> culture of milk thistle (<i>Silybum marianum</i>) and analysis of somaclonal variation using molecular markers
16	A. Barzegari	Cloning and expression of Interleukin-4 gene in <i>E. coli</i> preplasm using prokaryotic expression vector
17	S. Jamlirad	Analysis of genetic diversity in wheat genotypes used in Iran rust breeding program by microsatellite markers
18	A. Askari	Analysis of genetic relationships in Iranian maize inbred lines germplasm using microsatellite markers and detection of informative markers for agronomically important traits
19	A. Hedari	Analysis of cold tolerance in barley lines based on seedling survival percentage and its relationship with biochemical characteristics and EST-SSR markers
20	A. Janjkhloo	Evaluation of cold resistance in barley lines based on physiological and morphological and its association with microsatellite markers
21	A. Ferozi	Suspension culture of milk thistle (<i>Silybum marianum</i>) and amount of silymarin production in <i>in vitro</i> conditions
22	R. Hemati	Analysis of yellow rust resistance genes structural changes in resistance and susceptible wheat varieties
23	E. Abdollazeh	Nucleotide diversity of leaf rust resistance genes in resistance and susceptible wheat varieties
24	F. Shafaei	Analysis of genetic diversity and relationships among barley genotypes using retrotransposon markers
25	E. Zareei AbasAbad	Isolation and sequencing resistance gene analogous (RGAs) in barley varieties and its wild relatives
26	M. Sokhanvar	Mapping of gene(s) controlling grain yield and some physiological traits in bread wheat under drought stress using microsatellite markers
27	Y. Mohammadi	Identification of gene(s) controlling grain yield and some morphological traits in bread wheat under water deficit condition using SSR markers
28	S. Ghafarian	Determination of relationships and genetic diversity in lemon balm (<i>Melissa officinalis</i>) ecotypes using retrotransposon markers

Master Thesis Supervision (Count.)

No	Student Name	Thesis Title
29	R. Asadkhani	Analysis of genetic diversity and relationships in St. John's Wort (<i>Hypericum perforatum</i>) ecotypes based on retrotransposon markers
30	A. Shahi	Construction of genetic linkage map of bread wheat recombinant inbred lines derived from Yecora Rajo and NO.49 genotypes using IRAP and REMAP markers
31	M. AbasZadeh	Mapping of QTLs for Zn and B concentration in shot of barley at 5 leaves and maturity stages using SSR markers
32	H. DarziRamandi	Identification of SSR markers linked to gene(s) controlling accumulation of Zn and B in barley grain
33	S.F. Danyali	Mapping of genes controlling yield and its components in barley double haploid population using SSR markers
34	M. JafarPour	Analysis of genetic diversity and population structure in Iranian barley landraces using microsatellite markers
35	N. Abdollahi	Comparative analysis of genetic diversity in barley landraces using SSR and EST-SSR markers
36	A. Shovazdi	Transferability of wheat SSR markers in analysis of population structure in Iranian barley landraces
37	F. Shariat	Allelic diversity of glutamine and waxy genes in wheat landraces
38	B. Derakhshani	Distribution of vernalization and photoperiod genes in Iranian wheat landraces
39	Z. Sharabianloo	Analysis of <i>Yr</i> and <i>Lr</i> disease resistance genes in wheat landraces
40	S. Ghetaranpour	Mapping of genes for phosphorous efficiency in barley DH population using retrotransposon based markers
41	F. Khodaei	Identification of genomic regions related to iron uptake efficiency in barley
42	M. Miri	DNA methylation changes in root of barely varieties Clipper and Sahara3771 under salinity stress revealed by CRED-RA technique
43	M. Ghokkar	Analysis of DNA methylation changes in barley shoot as mechanism for gene expression control under salinity stress
44	R. Salami	Expression analysis of <i>Hv TIP</i> genes family in barley under salinity stress
45	S. Mohammadi Aghdam	Mapping of QTLs for yield and its components in spring wheat recombinant inbred lines population
46	A. Ahmadi Lak	Genetic diversity and population structure of wheat wild relatives based on wheat and barley SSR markers
47	S. Minaei	Genetic and phylogeography diversity within <i>Aegilops tauschii</i> genome based on retro-element insertional polymorphisms
48	F. AlMoahammadi	Mining the <i>Aegilops tauschii</i> gene pool using wheat functional markers to identify putative candidate genes
49	R. Moludi	Genetic diversity and allele mining in <i>Aegilops tauschii</i> gene pool from north and north-west of Iran using wheat D genome microsatellite markers
50	F. Alizadeh	Determination of relationships and genetic diversity of wormwood (<i>Artemisia annua</i> L.) genotypes using Start Codon Targeted (SCoT) markers
51	N. Karimi	Application of EST-SSR markers in determination of genetic diversity and population structure of wormwood (<i>Artemisia annua</i> L.) genotypes from Iran
52	B. Shahi	Transferability of wheat EST-SSR markers in analysis of <i>Aegilops tauschii</i> accessions genetic diversity and population structure
53	F. Rastghar	Genetic diversity and population structure of <i>Aegilops tauschii</i> as revealed by SCoT markers

Ph.D. Thesis Supervision

	Student Name	Thesis Title
1	A. Asghari	Identification of cold tolerance genes in rapeseed using molecular markers
2	O. Sofalian	Quantitative trait loci (QTL) analysis of cold tolerance in bread wheat
3	M. Shokrpour	Analysis of genetic diversity in milk thistle by morphological traits and molecular markers and their relation to its medicinal compounds
4	A. Najafi	Identification of molecular markers linked to fusarium head blight genes in wheat
5	V. Rashidi	Study of genetic relationships in durum wheat using morphological characters
6	J. Hajilo	Study of fertility and fruit-set in commercial apricot varieties based on pollen tube growth and
7	H. DovlatiBaneh	Analysis of genetic diversity in West Azarbyjan grapes using molecular markers and its relationship with agronomic characters
8	S. Khaghaninea	Study of genetic diversity in north-west Iran codling moth, <i>Cydia pomonella</i> (L.) (Lep.; Tortricidae) populations using geometric morphometric and molecular markers
9	S. AlaviKiya	Determination of relationships and genetic diversity in cultivated saffron and other species of Crocus in Iran using molecular methods
10	H. Badakhshan	Molecular analysis of yellow rust resistance in common wheat (<i>Triticum aestivum</i>)
11	S. Dejsatan	Isolation and cloning of RGAs and development of RGA-STS markers in bread wheat and their relationships with stripe rust resistance
12	M. Behnamiyani	Analysis of genetic diversity in <i>Pleurotus ergenii</i> isolated using SSR and URP markers and their association with morphological characters
13	A.R. Ahmadzade	Analysis of genetic diversity in spring safflower (<i>Carthamus tinctorius</i>) cultivars using morphological characters and molecular markers
14	M. Khodarami	Genetic analysis of yellow rust resistance in bread wheat lines and cultivars
15	M. Rostaei	Mapping of QTLs for photosynthesis related indices in bread wheat RIL population under water stress conditions
16	Y. Sharafi	Determination of compatibility relationships between pollen and pistil of some improved almond genotypes by classic and molecular methods
17	M. Nouraein	Identification of genomic regions controlling traits involved in drought tolerance in bread wheat using microsatellite markers
18	A. Ebadi	Mapping of gene(s) for micronutrient content and morphological traits at barley double haploid population using SSR markers
19	E. Zaraei	Development of SSR markers LD map and identification of vernalization and photoperiod genes in Iranian wheat landraces
20	M. Mohebalipour	Effect of growth regulators on lemon balm (<i>Melissa officinalis</i> L.) ecotypes citral content under <i>in vitro</i> culture and analysis of genetic structure using ISSR markers
21	N. FarasadAkhtar	Analysis of genetic structure in native populations and commercial cultivars of St. John's wort (<i>Hypericum perforatum</i>) using ISSR markers and their response to <i>in vitro</i> culture
22	S. Ghafarian	DNA methylation pattern and gene expression changes in root of barley under salinity stress
23	S. Hamian	Effect of salinity on DNA methylation pattern and expression of genes induced by salt in barley shoot
24	A. Barati	Identification of genomic regions controlling agronomic traits associated with salinity tolerance in barley
25	B. Panahi	Analysis of genome-wide alternative splicing and expression of candidate genes in barley (<i>Hordeum vulgare</i> L.) under salinity stress
26	H. Hamzeh	Identification of QTLs for traits related to water deficit stress in wheat
27	H. Jamali	Association mapping for distinctness, uniformity and stability testing characters in barley landraces using SSR, EST-SSR and SRAP markers

Ph.D. Thesis Supervision (count.)

	Student Name	Thesis Title
28	S. Hamiyan	Effect of salinity on DNA methylation pattern and expression of genes induced by salt in barley shoot
29	S. Gholozadeh	Metagenomics study of rhizosphere microbiome effect of wheat and its wild relatives in improvement of drought stress tolerance
30	N. Abdolahi	Identification of genomic regions associated with water deficit tolerance in spring wheat recombinant inbred lines population using genotyping by sequencing
31	A. Ahmadi Laki	Genome-wide association mapping for agronomic traits in spring-habit hexaploid wheat landraces