



## **Mohammad Mahdi Majidi**

**Professor of Plant Genetic, Breeding and Biotechnology**

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### **Personal information:**

- **Birth:** Sep-01-1977, Golpayegan, Isfahan, Iran
- **Marital status:** Married, one son
- **Language:** Persian, English

### **Education beyond high school:**

B.S., Agronomy and Plant Breeding, 1999, Isfahan University of Technology

M.S., Plant Breeding, 2001, Isfahan University of Technology

Ph.D., Plant Breeding and Biotechnology, 2007, Isfahan University of Technology

Visiting researcher, Molecular breeding, 2006-2007, ETH, Zurich, Switzerland

Research professor, 2017-2018, Sequencing technology and RNA-seq, University of Guelph, Canada,

## Teaching

- Undergraduate:  
Genetics, Plant breeding, Statistic
- Graduate:  
Advanced plant breeding, Advanced statistic, Biometrical genetic

## Position, experiences and administration

- **2006-2007** Research assistant (Visiting fellow), Consequences of ex situ conservation on genetic diversity of meadow fescue using molecular markers. Agroscope. Zurich. Switzerland. (Collaboration with Prof. Beat Boller and Dr. Roland Kolliker).
- **2007-2013** Assistant professor of genetic and plant breeding, College of Agriculture, Isfahan University of Technology, Isfahan, Iran
- **From 2013** Associate professor of genetic and plant breeding, College of Agriculture, Isfahan University of Technology, Isfahan, Iran
- **2010-2012** Head of the Department of Agronomy and Plant Breeding, College of Agriculture, Isfahan University of Technology, Isfahan. Iran
- **2012-2016** Vice Dean of Graduate students Affairs, College of Agriculture, Isfahan University of Technology, Isfahan, Iran
- **From 2017** Professor of genetic and plant breeding, College of Agriculture, Isfahan University of Technology, Isfahan, Iran
- **2017 – 2018** Research professor, University of Guelph, Canada
- Plant breeding projects in field and green houses, RNA-seq Technology and genotyping by sequencing (GBS), PCR and Molecular markers, Familiar with general and statistical computer softwares (SAS, SPSS, STATISTICA, NTSYS, Excel, Word, Power point)

## Current Projects

My research focuses on Breeding and Biotechnology of Forage crops, Amenity grasses, Oil seed crops and some Medicinal plants using traditional, molecular, and genomic tools. My program will aim at developing new cultivars with increased yield, biotic and abiotic stress tolerance, and processing quality as follow:

I lead the grass breeding and genetics program in Isfahan University of Technology (IUT). We are focused on development of abiotic stress tolerant, high-yielding, and high-quality grass genotypes for diverse arid and semiarid environments with different applications (Forage, Turf and Sport). Germplasm enhancement, application of polycross and HS mating designs, application of genomics technology and appropriate breeding and selection schemes are integrated to strengthen long-term variety development efforts and accelerate genetic gain. Improvement **root characteristic** systems is one of the most important goals in our breeding programs.

I also lead the barley and safflower breeding program using **Inter-specific hybridization** at IUT. Our goal is to increase the genetic- and bio-diversity of cropping systems across arid and semi-arid states through the development of new cultivars and ecologically-rooted production practices. Within barley, wheat and safflower, we prepared a wide ranges of population through Inter-specific hybridization (Selfed and Back cross generations) for GWAS and mapping studies and breeding. General traits/systems of importance across the crops we study include **drought tolerance**, nutritional value, heat tolerance, resistance to some disease, intercropping and deficit irrigation.

Medicinal plants, we already developed some projects for breeding and germplasm improvement of Fennel, Cumin and Milk thistle using molecular and genomic tools as well as traditional breeding. General traits of importance across the crops we study include increasing essential oil and secondary metabolism, drought tolerance, resistance to some disease and deficit irrigation.

## Research interest

Application of RNA-seq and genotyping by sequencing in plants, Half-sib mating and polycross breeding of open pollinated crops - Biodiversity, Genetic Resources and germplasm enhancement- Application of Biotechnology and molecular markers in plant breeding- Bioinformatics, Genomics and Proteomics

## Publications

### I. Books:

Mirlohi, A., Majidi, M. M. and M. Esmailzadeh-Moghadam. 2013. Principle of plant breeding. Arkan-e Danesh Press (In Farsi).

### II. International Journals:

1. Raheison, E., Majidi, M.M., Goessen, R., Hughes, N., Cuthbert, R., Knox, R., Lukens, L. 2020. Evidence for the Accumulation of Nonsynonymous Mutations and Favorable Pleiotropic Alleles During Wheat Breeding. *G3: Genes, Genomes, Genetics*, 10(11), 4001-4011.
2. Saeidnia, F., Majidi, M.M. and Mirlohi. 2020. Marker-trait association analysis for drought tolerance in smooth brome grass. *BMC Plant Biology*, 21: 116.
3. Mohammadi, M., Mirlohi, A., Majidi, M.M., Soleimani, E. 2021. Emmer wheat as a source for trait improvement in durum wheat: a study of general and specific combining ability. *Euphytica*. 217: 64
4. Abtahi, M., Majidi, M.M., Saeidnia, F., Bahrami, S., Mirlohi, A. 2019. Genetic and Physiological Aspects of Drought Tolerance in Smooth Brome grass. *Crop Science*. 59: 2601-2607.
5. Saeidnia, F., Majidi, M.M., Mirlohi, A., Spanani, S., Karami, Z., Abdollahi Bakhtiari, M. 2020. A genetic view on the role of prolonged drought stress and mating systems on post-drought recovery, persistence and drought memory of orchardgrass (*Dactylis glomerata* L.). *Euphytica*. 216: 91.
6. Saeidnia, F., Majidi, M.M., Abdollahi Bakhtiari, Mirlohi, A. 2020. Influence of water deficit and defoliation managements on post-drought recovery and persistence of smooth brome grass.

7. Barati M., Majidi, M. Safari, M.M., Mostafavi, F., Mirlohi, and Karami, Z. 2020. Comparative physiological attributes of cultivated and wild relatives of barley in response to different water environments. [Agronomy Journal](#). 112: 36-43.
8. Pirnajmedin, F. Majidi, M.M. Taleb, H., Saeidi, Gh., Shojaiefar, S. 2020. Genotypic-specific response to exogenous applied salicylic acid in tall fescue under different irrigation conditions. [Crop Science](#). 60: 1123-1130.
9. Pirnajmedin, F. Majidi, M.M. Taleb, H., Maibody, S.A.M., Saeidi, Gh. 2020. Amelioration of High Temperature Stress by Exogenously Applied Salicylic acid: Genotypic-Specific Response of Physiological Traits. [Agronomy Journal](#). 112: 1573-1579.
10. Pirnajmedin, F. Majidi, M.M. Barre, P., Kolliker, R. and Saeidi, Gh. 2020. Enhanced polycross breeding of tall fescue through marker based paternity identification and estimation of combining ability. [Euphytica](#). 216: 139.
11. Saeidnia, F., Majidi, M.M., Spanani, S., Abdollahi Bakhtiari, M., Karami, Z. and Hughes, N. 2020. Genotypic- specific responses caused by prolonged drought stress in smooth brome grass (*Bromus inermis*): Interactions with mating systems. [Plant Breeding](#). 139: 1029-1041.
12. Spanani, S. **Majidi**, M.M., Saeidi, G., and Alaei, Rezaei, V. 2019. Wide hybridization and introgression breeding in safflower: Effectiveness of different selection methods. [Plant Breeding](#): 138: 846–861.
13. Abtahi, M., **Majidi**, M.M., Mirlohi, A. 2019. Genotype selection for physiological responses of drought tolerance using molecular markers in polycross hybrids of orchardgrass. [Plant Breeding](#): 138:937–946.
14. Arabbeigia, M., Arzania, A. and **Majidi**, M. M. 2019. Expression Profiles of P5CS and DREB2 Genes under Salt Stress in Aegilops cylindrical. [Russian Journal of Plant Physiology](#), 2019, 66: 583–590
15. Saeidnia, F., **Majidi**, M.M., Mirlohi, Bahrami, S. 2019. Inheritance and combining ability of persistence and drought recovery in smooth brome grass (*Bromus inermis* L.). [Euphytica](#). 215: 177.
16. Spanani, S. **Majidi**, M.M., Saeidi, G., and Alaei. 2019. Physiological aspects of inter-specific gene introgression to improve drought tolerance in safflower. [Euphytica](#). 215: 163.
17. Shafiei-Koij, F., **Majidi**, M.M., Mirlohi, M.M., Saeidi, M.M., Barthet, V., and Eskini, S. 2019. The Use of Wild Relatives of Safflower to Increase Genetic Diversity for Fatty Acid Composition and Drought Tolerance. [Crop Science](#). 59: 2109-2118.
18. Abdollahi Bakhtiari, M., Saeidnia, F., **Majidi**, M.M. and Mirlohi, A. 2019. Growth traits associated with drought survival, recovery and persistence of cocksfoot (*Dactylis glomerata* L.) under prolonged drought treatments. [Crop and Pasture Science](#). 70: 85-94.
19. Arabbeigia, M., Arzania, A., and **Majidi**, M.M. 2019. Expression Profiles of P5CS and DREB2 Genes. [Russian Journal of Plant Physiology](#). 66: 583-590

20. Shafiei, F., Mirlohi, A., **Majidi**, M.M., Saeidi, G., Eskini, S. 2019. Evaluating Selection Methods for *Carthamus* Interspecific Crosses under Different Water Conditions. [Agronomy Journal](#). 111: 1592-1603.
21. Abtahi, M., **Majidi**, M.M., Mirlohi, A., Saeidnia, F. 2018. Marker-based parental selection to improve performance of orchardgrass polycross populations under water deficit environments. [Euphytica](#). 214:232
22. Barati M., Majidi, M.M., Mostafavi, F., Mirlohi, A., Safari, M, and Karami, Z. 2018. Potential of Iranian Wild Barley (*Hordeum vulgare* ssp. *spontaneum*) in Breeding for Drought Tolerance. [Cereal Research Communications](#) 46(4): 707–716
23. Barati M., Majidi, M.M., Mostafavi, F., Mirlohi, A., Safari, M, and Karami, Z. 2018. Evaluation of Wild Barley Species as Possible Sources of Drought Tolerance for Arid Environments. [Plant Genetic Resources: Characterization and Utilization](#). 16(3): 209–217
24. Abtahi, M., **Majidi**, M.M., Hosseini, B., Mirlohi, A., Araghi, B. and Hughes, N. 2018. Genetic variation in an orchardgrass population promises successful direct or indirect selection of superior drought tolerant genotypes. [Plant Breeding](#). 137: 928-935.
25. Spanani, S. **Majidi**, M.M. and Hughes, N. 2018. Genetics of Inbreeding Effects in Smooth Bromegrass. [Crop Science](#). 58: 1899-1906.
26. Pirnajmedin, F., Majidi, M.M., Saeidnia, F., Hoseini, B., Mirlohi, A. and Abdolahi, M. 2018. Genetics of post-drought recovery, persistence and summer dormancy in orchardgrass (*Dactylis glomerata*). [Crop and Pasture Science](#), 69, 1140–1149
27. Abtahi, M., **Majidi**, M.M., Mirlohi, A., Saeidnia, F. 2018. Association analysis for seed yield, forage yield and traits related to drought tolerance in orchardgrass. [Crop and Pasture Science](#), 69: 1150-1164
28. Abtahi, M., Majidi, M.M., Mirlohi, A. 2017. Root characteristic system improve drought tolerance in orchardgrass. [Plant Breeding](#). 136: 775-783.
29. Saeidnia, F., Majidi, M.M., Mirlohi and Ahmadi, B. 2018. Physiological responses of drought tolerance in orchardgrass (*Dactylis glomerata*) in association with persistence and summer dormancy. [Crop and Pasture Science](#). 69: 515-526.
30. Saeidnia, F., Majidi, M.M. and Mirlohi. 2017. Genetic Analysis of Stability in Poly-Crossed Populations of Orchardgrass. [Crop science](#). 57: 28282-2836.
31. Pirnajmedin, F, Majidi, M.M., Saeidi, G., Gheysari, Norbakhsh, V., and Radan, Z. 2017. Genetic analysis of root and physiological traits of tall fescue in association with drought stress conditions. [Euphytica](#). 213:135
32. Saeidnia, F., Majidi, M.M. and Mirlohi. 2017. Selection for High Yield, Combining Ability, and Stability in Smooth Bromegrass. [Journal of Agricultural Science and Technology](#). 19: 1405-1416.
33. Sheikh-Mohamadi, M.H., Etemadi, N., Nikbakht, A., Farajpour, A., Arab, M., Majidi. 2017. Screening and Selection of Twenty Iranian Wheatgrass Genotypes for Tolerance to Salinity Stress during Seed Germination and Seedling Growth Stage. [Hort Science](#) 52(8):1125–1134
34. Sheikh-Mohamadi, M.H., Etemadi, N., Nikbakht, A., Arab, M., Majidi, M.M. and Pessarakli, M. 2017. Antioxidant defence system and physiological responses of Iranian

- crested wheatgrass (*Agropyron cristatum* L.) to drought and salinity stress. [Acta Physiologiae Plantarum](#) 39:245
35. Pirnajmedin, F., Majidi, M.M., Saeidi, G., Gheysari, G., Volaire, F., Barre, F., Osivand, A.H. and Sarfaraz, D. 2017. Persistence, recovery and root traits of tall fescue genotypes with different flowering date under prolonged water stress. [Euphytica](#). 213:269
  36. Majidi, M.M., Hoseini, B., Barati, M., Mirlohi, A. and Araghi, B. 2016. Simultaneous selection for seed and forage production in cocksfoot (*Dactylis glomerata*): application of drought tolerance and susceptibility indices. [Grass and Forage Science](#). 72: 441-453.
  37. Spanani, S. and Majidi, M.M. 2017. Magnitude of inbreeding depression and genetic variation analysis of agro-morphological traits in orchardgrass. [Plant Breeding](#): 136: 261-269.
  38. Saeidnia, F., Majidi, M.M. and Mirlohi. 2017. Analysis of seed production and its association with forage production and agronomic traits in orchardgrass (*Dactylis glomerata*) under different moisture conditions. [Crop & Pasture Science](#), 68: 657-669.
  39. Saeidnia, F., Majidi, M.M., Mirlohi and Manafi M. 2017. Productivity, persistence and traits related to drought tolerance in smooth brome grass. [Plant Breeding](#): 136: 270-278.
  40. Saeidnia, F., Majidi, M.M. and Mirlohi A. 2016. Physiological and tolerance indices useful for selection drought tolerance in smooth brome grass. [Crop Science](#) 57: 282-288.
  41. Ebrahimi, F., Majidi M.M., Arzani, A. Mohammadi-Nejad, GH. 2017. Association analysis of molecular markers with traits under drought stress in safflower. [Crop & Pasture Science](#), 68: 167-175
  42. Rashidi, F., Majidi, M.M. and Pirboveiry, M. 2017. Response of different species of Brassica to water deficit. [International Journal of Plant Production](#) 11: 1-16.
  43. Nazari, M., Mirlohi, A. and Majidi, M.M. 2017. Effects of Drought Stress on Oil Characteristics of Carthamus Species. [Journal of the American Oil Chemists' Society](#). 94:247–256.
  44. Gheysari, M. Sadeghi, S. H., Loescher, H.W., Amiri, S., Zareian, M.J., Majidi, M.M. Asgarinia, P. Payero, J. O. 2017. Comparison of deficit irrigation management strategies on root, plant growth and biomass productivity of silage maize. [Agricultural Water Management](#) 182 (2017) 126–138
  45. Amini, F., Mirlohi, A., Majidi, M. M. 2016. The Possibility of Use of AFLP Molecular Markers and Phenotypic Traits to Increase Forage Yield in Tall Fescue (*Festuca arundinacea* Schreb.) Breeding. [Journal of Agricultural Science and Technology](#). 18: 1419-1429.
  46. Pirnajmedin, F., M. M. Majidi, A. Gheysari, M. 2016. Survival and recovery of tall fescue genotypes: association with root characteristics and drought association with root characteristics and drought. [Grass and Forage Science](#). 71: 632-640.
  47. Ebrahimi, F., Majidi M.M., Arzani, A. Mohammadi-Nejad, GH. 2016. Oil and seed yield stability in a worldwide collection of safflower under arid environments of Iran. [Euphytica](#). 212: 131-144.
  48. Saeidnia, F., Majidi, M.M., Mirlohi A., Shahidaval, S. 2016. Selection for productivity,

- persistence and drought tolerance in orchardgrass. [Euphytica](#). 212: 11-130.
49. **Majidi**, M. M and Mirlohi, A. 2016. Impact of endophytic fungi on seed and seedling characteristics in tall and meadow fescues. [International Journal of Plant Production](#) 10: 469-478.
  50. Dehghani, M. R, **Majidi**, M.M., Mirlohi A., Saeidi, G. 2016. Study of genotype by environment interaction in tall fescue genotypes and their polycross progenies in Iran based on AMMI model analysis. [Crop & Pasture Science](#), 67: 792–799
  51. **Majidi**, M. M., Bahrami, S., Abtahi, M., Mirlohi, A. and Araghi, B. 2016. Genetic analysis of seed related traits in smooth brome grass (*Bromus inermis*) under well-watered and water-stressed conditions. [Grass and Forage Science](#). 72: 163-173.
  52. Irani, S. **Majid**, M.M. and Mirlohi, A. 2016. Genetic variation for clonal propagation and trait association with field performance in sainfoin. [Tropical Grasslands](#) 4: 38–46
  53. Dehghani, M. R, **Majidi**, M.M., Mirlohi A., Saeidi, G. 2016. Integrating parametric and non-parametric measures to investigate genotype × environment interactions in tall fescue. [Euphytica](#). 208:583–596
  54. Pirnajmedin, F., M. M. **Majidi**, A. Mirlohi, A. Noroozi. 2016. Application of EST-derived microsatellite markers for analysis of genetic variation in tall fescue and its comparison with morphological markers. [Biochemical Systematics and Ecology](#) 65: 225-233.
  55. Barati M., **Majidi**, M.M., Mirlohi, A., Pirnajmodini, F. and Sharif-Moghaddam, N. 2015. Response of cultivated and wild barley germplasm to drought stress at different developmental stages. [Crop Science](#). 55:2668–2681.
  56. Sharafi, Y., **Majidi**, M.M., Jafarzadeh, M, and Mirlohi, M. 2015. Multivariate analysis of genetic variation in winter rapeseed (*Brassica napus* L.) cultivars. [Journal of Agricultural Science and Technology](#), 17: 1319-1331.
  57. Irani, S. **Majid**, M.M. and Mirlohi, A., M. Karami and M. Zargar. 2015. Assessment of Drought Tolerance in Sainfoin: Physiological and Drought Tolerance Indices. [Agronomy Journal](#), 107:1771–1781.
  58. Irani, S. **Majid**, M.M. and Mirlohi, A., M. Karami and M. Zargar. 2015. Response to Drought Stress in Sainfoin: Within and Among Ecotype Variation. [Crop Science](#). 55:1868–1880.
  59. Irani, S. **Majid**, M.M. and Mirlohi, A. 2015. Half-sib Matting and Genetic Analysis of Agronomic, Morphological and Physiological Traits in Sainfoin (*Onobrychis viciifolia*) Under Non stressed versus Water Deficit Conditions. [Crop Science](#). 55: 123-135.
  60. Sharafi, Y., **Majidi**, M.M., Goli, A. and Rashidi, F. 2015. Oil Content and Fatty Acids Composition in Brassica Species. [International Journal of Food properties](#). 18: 2145-2154.
  61. Zarabiyani, M. **Majidi**, M.M., 2015. Genetic diversity and relationships within and among *Onobrychis* species using molecular markers. [Turkish Journal of Botany](#). 39: 681-692
  62. **Majidi**, M.M., Rashidi, F., Sharafi, Y., 2015. Physiological Traits Related to Drought Tolerance in Brassica. [International Journal of Plant Production](#). 9(4): 541-560.

63. Dehghani, M. R, **Majidi**, M.M., Saeidi, G., Mirlohi, A., Amiri, R, and Sorkhilalehloo, B. 2015. Application of GGE biplot to analyse stability of Iranian tall fescue (*Lolium arundinaceum*) genotypes. [Crop and Pasture Science](#). 66: 963–972.
64. Abbasi, Z, **Majidi**, M.M., Arzani, A., Rajabi, A., Mashayekhi, P. and J. Bocianowski. 2015. Association of SSR markers and morpho-physiological traits associated with salinity tolerance in sugar beet (*Beta vulgaris* L.). [Euphytica](#). 205: 785-797.
65. **Majidi**, M.M., Hoseini, B., Abtahi, M., Mirlohi, A. and Araghi, B. 2015. Genetic analysis of seed related traits in Orchardgrass (*Dactylis glomerata*) under normal and drought stress conditions. [Euphytica](#). 203:409–420
66. **Majidi**, M.M., Araghi, B. Barati, M. and Mirlohi, A. 2015. Polycross Genetic Analysis of Forage Yield and Related Traits in *Dactylis glomerata*. [Crop Science](#). 55:203–210 (2015).
67. Arabbeigi, M., Arzani, A., **Majidi**, M.M., Kani, R., Seyed-Tabatabaai, B.E. and Habibi, F. 2014. Salinity tolerance of *Aegilops cylindrica* genotypes collected from hyper-saline shores of Uremia Salt Lake using physiological traits and SSR markers. [Acta Physiologiae Plantarum](#). 36: 2246-2251.
68. Abbasi, Z, Arzani, A., **Majidi**, M.M. 2014. Evaluation of genetic diversity of sugar beet (*Beta vulgaris* L.) crossing parents using agro-morphological traits and molecular markers. [Journal of Agricultural Science and Technology](#). 16: 1397-1411.
69. Pirnajmedin, F., **Majidi**, M.M. and Gheysari, M. 2014. Root and physiological characteristics associated with drought tolerance in Iranian tall fescue. [Euphytica](#). 202: 141-155.
70. **Majidi**, M.M. and Zadhoush, S. 2014. Molecular and Morphological Variation in a World-Wide Collection of Safflower. [Crop Science](#). 54: 2109-2119.
71. Derakhshan, E. **Majidi**, M.M. Sharafi, Y and Mirlohi, A. 2014. Discrimination and genetic diversity of cultivated and wild safflowers (*Carthamus* spp.) using EST-microsatellite markers. [Biochemical Systematics and Ecology](#). 54: 130-136
72. Araghi, B., Barati, M., **Majidi**, M.M. and Mirlohi, A. 2014. Application of Half-Sib Mating for Genetic Analysis of Forage Yield and Related Traits in *Bromus inermis*. [Euphytica](#).196: 25-34.
73. Karim-Mojeni, H., Bazrafshan, A.H., **Majidi**, M.M. Torabian, SH., Rashidi, B. 2014. Effect of maternal nitrogen and drought stress on seed dormancy and germinability of *Amaranthus retroflexus*. [Plant species biology](#). 29: 1-8.
74. Zarabiyani, M., **Majidi**, M.M. and Ehtemam, M.H. 2013. Genetic diversity in a worldwide collection of sainfoin using morphological, anatomical and molecular markers. [Crop Science](#). 53: 2483-2496.
75. Amini, F., **Majidi**, M. M and Mirlohi, A. 2013. Genetic and genotype × environment interaction analysis for agronomical and some morphological traits in half-sib families of tall fescue. [Crop Science](#). 53: 411-421.



76. Etemadi, N., Mohammadinejad, R., Zamani, N. and **Majidi**, M.M. 2013. Effect of transplanting date and harvest method on growth and survival of three urban tree species in an arid climate. [Arboriculture & urban forestry](#). 39: 211-217.
77. Amiri, s., Karim-Mojenei, H., **Majidi**, M.M. and Bromand, A. 2013. Evaluation of post emergence herbicides to control weeds of newly planted sainfoin. [Plant Knowledge Journal](#). 2: 145-149.
78. Ebrahimiyan, M., **Majidi**, M.M. and Mirlohi, A. and Noroozi, A. 2013. Physiological traits related to drought tolerance in tall fescue. [Euphytica](#). 190: 401-414.
79. Ebrahimiyan, M., **Majidi**, M.M. and Mirlohi, A. 2012. Genotypic variation and selection of traits related to forage yield in tall fescue under irrigated and drought stress environments. [Grass and Forage Science](#). 68: 59-71.
80. Ebrahimiyan, M., Majidi, M.M. Mirlohi, A. and Gheysari, M. 2012. Drought tolerance indices in a tall fescue population and its polycross progenies. [Crop and Pasture Science](#). 63(4) 360-369.
81. Dashti, H., Bihamta M.R., Shirani, H., **Majidi**, M.M. 2012. Genetic analysis of salt tolerance in vegetative stage in wheat (*Triticum aestivum*). [Plant Omics Journal](#). 5: 19-21.
82. **Majidi**, M.M and Barati, M. 2011. Methods for breaking seed dormancy in one cultivated and two wild *Onobrychis* species. [Seed Science and Technology](#). 39: 44-53.
83. Amini, F., Mirlohi, A., **Majidi**, M. M., Shojaifar, S. and Kolliker R. 2011. Improved polycross breeding of tall fescue through marker based parental selection. [Plant Breeding](#). 130: 701-707.
84. **Majidi**, M. M., Tavakoli, V., Mirlohi, A. and Sabzalian, M. R. 2011. Wild safflower species (*Carthamus Oxyacanthus* Bieb.): A Possible Source of Drought Tolerance for Arid Environments. [Australian Journal of Crop Sciences](#). 5(8): 1055-1063.
85. Gharibi, Sh, Rahimmalek, M., Mirlohi, A. **Majidi**, M.M., Seyed tabatabaai, B.E. 2011. Assessment of genetic diversity in *Achillea millefolium* subsp. *millefolium* and *Achillea millefolium* subsp. *elbursensis* using morphological and ISSR markers. [Journal of Medicinal Plants Research](#). 5: 2413-2423.
86. Ghorbani, Z., Masoumi, A.A., Hemmat, A., Amiri Chayjan, R. and **Majidi**, M.M. 2011. Principle component modeling of energy consumption and physical-mechanical properties of alfalfa grind. [Australian Journal of Crop Sciences](#). 5(8): 932-938.
87. **Majidi**, M. M., A. F. Mirlohi. 2010. Genetic similarities among Iranian populations of *Festuca*, *Lolium*, *Bromus* and *Agropyron* using AFLP markers. [Iranian Journal of Biotechnology](#). 8 (1): 16-23.
88. **Majidi**, M. M., A. F. Mirlohi and F. Amini. 2009. Genetic variation, heritability and correlations of agro-morphological traits in tall fescue (*Festuca arundinacea* Schreb.). [Euphytica](#). 167: 323-331.

89. **Majidi**, M.M., A.F. Mirlohi and B. E. Sayed-Tabatabaei. 2006. AFLP analyses of genetic variation in Iranian fescue accessions. *Journal of Biological Science*. 9 (10):1869-1876.

### III. International conferences:

1. Espanani, S., Majidi, M.M. Saeidi, G. and Alaei, H. The role of interspecies hybridization in genetic improvement of safflower. 3<sup>th</sup> international and 15<sup>th</sup> national Iranian crop science congress. Sep. 4-6, 2018, Karaj, Iran.
2. **Majidi**, M.M., Goessen, R., Raheison, E., Hughes, N., Lukens, L. 2018. High-throughput transcriptome analysis (RNA-seq) for identifying the genetic bases for wheat improvement. 3<sup>th</sup> international and 15<sup>th</sup> national Iranian crop science congress. Sep. 4-6, 2018, Karaj, Iran.
3. **Majidi**, M.M., Hughes, N., Raheison, E., Goessen, R., Lukens, L. 2018. Application of hyperspectral proximal sensing for high-throughput phenotyping in plant breeding: A case study in wheat. 3<sup>th</sup> international and 15<sup>th</sup> national Iranian crop science congress. Sep. 4-6, 2018, Karaj, Iran.
4. **Majidi**, M. M., Barati, M. and Mirlohi, A. 2016. Wild Barley (*Hordeum vulgare* ssp. spontaneum) as a Potential Source of Drought Tolerance Genes for Barley Improvement. Proc. of the 20<sup>th</sup> Eucarpia General Congress: Plant breeding, The Art of Bringing Science to Life. 29 Aug-1Sep, 2016. Zurich, Switzerland.
5. Kiani, M., Gheisari, M.M., Mostafazadeh, B. and **Majidi**, M.M. 2013. Development of a crop coefficient model for sunflower to save water in arid region. 6th International Perspective on Water Resources & the Environment. Ismir. Turkey.
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