



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 matting 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).

Majidi,M.M., Hodaie,M.S. and Saeidnia, F. 2022. Advanced statistics and applied biometry. Jahad-e Daneshgahi of Isfahan University of Technology Press (In Farsi).

II. International Journals:

1. Mohammadi, M., Mirlohi, A., Majidi, M. M., Khedri, Z., & Rezaei, V. (2022). Generation means analysis of traits related to lodging using two crosses of durum× emmer wheat. *Genetic Resources and Crop Evolution*, 69(3), 1107-1119.
2. Saeidnia, F., Majidi, M. M., Dehghani, M. R., Saeidi, G., & Mirlohi, A. (2022). Drought tolerance and stability of native Iranian and foreign tall fescue genotypes: Comparison of AMMI and GGE biplot analyses. *Agronomy Journal*, 114(4), 2180-2185.
3. Pirnajmedin, F., Majidi, M. M., Taleb, M. H., & Rostami, D. (2022). Genetic parameters and selection in full-sib families of tall fescue using best linear unbiased prediction (BLUP) analysis. *BMC Plant Biology*, 22(1), 1-12.

4. Saeidnia, F., Majidi, M. M., Mirlohi, A., Dehghani, M. R., & Hosseini, B. (2021). Yield stability of contrasting orchardgrass (*Dactylis glomerata* L.) genotypes over the years and water regimes. *Euphytica*, 217(7), 1-17.
5. Majidi, M. M., Pirnajmedin, F., Vakili, Z., Shahidaval, S., & Hughes, N. (2021). Pollination system and deficit irrigation affect flavonolignan components of sylimarin, oil, and productivity of milk thistle. *Crop Science*, 61(4), 2651-2657.
6. Pirnajmedin, F., Majidi, M. M., Taleb, M. H., & Mirmohammady Maibody, S. A. M. (2021). Half-sib mating for inheritance analysis of post-drought recovery and productivity related traits in tall fescue. *Agronomy Journal*, 113(3), 2314-2320.
7. Hosseini, E., Majidi, M. M., Ehtemam, M. H., Ghanadian, M., & Huyghe, C. (2021). Variation in a worldwide collection of fennel (*Foeniculum vulgare* var. *vulgare*). *Crop and Pasture Science*, 72(12), 1008-1021.
8. Khodaee, S. M. M., Hashemi, M., Mirlohi, A., Majidi, M. M., Sukumaran, S., Moghaddam, M. E., & Abdollahi, M. (2021). Root characteristics of an elite spring wheat panel under contrasting water treatments and their genome-wide association study. *Rhizosphere*, 19, 100413.
9. Mohammadi, M., Mirlohi, A., Majidi, M. M., & Rabbani, A. (2021). Exploring the breeding potential of Iranian emmer wheats to increase durum wheat tolerance to drought. *Plant Genetic Resources*, 19(4), 363-374.
10. Majidi, M. M., Shafiei-Koij, F., Pirnajmedin, F., Jami, M., & Radan, Z. (2021). Fatty acid profile, silymarin content and production properties of milk thistle (*Silybum marianum*) germplasm under different water environments. *Crop and Pasture Science*, 72(4), 302-310.
11. Saeidnia, F., Majidi, M. M., Dehghani, M. R., Mirlohi, A., & Araghi, B. (2021). Multi environmental evaluation of persistence and drought tolerance in smooth bromegrass (*Bromus inermis*): genetic analysis for stability in combining ability. *Crop and Pasture Science*, 72(7), 565-574.
12. Hosseini, B., Mosaddeghi, M. R., & Majidi, M. M. 2021. Rhizosphere Soil Quality of Different Cultivated and Wild Barley Genotypes as Evaluated Using Physical and Chemical Indicators. *Journal of Soil Science and Plant Nutrition*, 21(3): 2538-2550.
13. Taleb, M.H., Majidi, M.M., Maybody, S.A.M. and Pirnajmedin, F. 2021. Variation in persistency, post-drought recovery and root characteristics in a tall fescue germplasm under interactive effects of exogenously applied salicylic acid and water stress. *Plant Breeding*, 140: 678-692.
14. Hosseini, E.S., Majidi, M.M., Ehtemam, M.H. and Ghanadian, M. 2021. Genetic variability for phytochemical components in fennel genotypes. *Crop Science*. 61: 4081-4086.
15. Saeidnia, F., Majidi, M.M., Mirlohi, A.F., Dehghani, M.R. Hosseini, B. 2021. Yield stability of contrasting orchardgrass (*Dactylis glomerata* L.) genotypes over the years and water regimes. *Euphytica*. 217:136
16. Raherison, 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.

17. Barati, M., Majidi, M.M., Pirnajmedin, F., Mirlohi, A., Sarfaraz, D., and Osivand, A. 2020. Drought Tolerance in Cultivated and Wild Barley Genotypes: The Role of Root System Characteristics. *J. Agr. Sci. Tech.* 22(5): 1359-1370
18. Raherison, 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.
19. Saeidnia, F., Majidi, M.M. and Mirlohi. 2020. Marker-trait association analysis for drought tolerance in smooth bromegrass. *BMC Plant Biology*, 21: 116.
20. 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
21. Abtahi, M., Majidi,M.M., Saeidnia,F., Bahrami, S., Mirlohi, A. 2019. Genetic and Physiological Aspects of Drought Tolerance in Smooth Bromegrass. *Crop Science*. 59: 2601-2607.
22. 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.
23. 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 bromegrass. *Agronomy Journal*. 112: 4578-4586
24. 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.
25. Pirnajmedin, F. Majidi, M.M. Taleb, H., Saeidi, Gh., Shojaiifar, S. 2020. Genotypic-specific response to exogenous applied salicylic acid in tall fescue under different irrigation conditions. *Crop Science*. 60: 1123-1130.
26. 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.
27. 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.
28. 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 bromegrass (*Bromus inermis*): Interactions with mating systems. *Plant Breeding*. 139: 1029-1041.
29. 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.

30. 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.
31. Arabbeigia, M., Arzania, A. and **Majidi**, M. M. 2019. Expression Profiles of P5CS and DREB2 Genes under Salt Stress in *Aegilops cylindrica*. *Russian Journal of Plant Physiology*, 2019, 66: 583–590
32. Saeidnia, F., **Majidi**, M.M., Mirlohi, Bahrami, S. 2019. Inheritance and combining ability of persistence and drought recovery in smooth bromegrass (*Bromus inermis* L.). *Euphytica*. 215: 177.
33. 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.
34. 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.
35. 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.
36. Arabbeigia, M., Arzania, A., and **Majidi**, M.M. 2019. Expression Profiles of *P5CS* and *DREB2* Genes. Russian Journal of Plant Physiology. 66: 583-590
37. 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.
38. Abtahi, M., **Majidi**, M.M., Mirlohi, A., Saeidnia,F. 2018. Marker-based parental selection to improve performance of orchadgrass polycross populations under water deficit environments. *Euphytica*. 214:232
39. 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
40. 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
41. 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.
42. Spanani, S. **Majidi**, M.M. and Hughes, N. 2018. Genetics of Inbreeding Effects in Smooth Bromegrass. *Crop Science*. 58: 1899-1906.
43. Pirnajmedin, F., Majidi, M.M., Saeidnia, F., Hoseini, B., Mirlohi, A. and Abdolah, M. 2018. Genetics of post-drought recovery, persistence and summer dormancy in orchardgrass (*Dactylis glomerata*). *Crop and Pasture Science*, 69, 1140–1149
44. 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

45. Abtahi, M., Majidi, M.M., Mirlohi, A. 2017. Root characteristic system improve drought tolerance in orchardgrass. *Plant Breeding*. 136: 775-783.
46. 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.
47. Saeidnia, F., Majidi, M.M. and Mirlohi. 2017. Genetic Analysis of Stability in Poly-Crossed Populations of Orchardgrass. *Crop science*. 57: 28282-2836.
48. 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
49. 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.
50. 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
51. 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 Physiol Plant* 39:245
52. 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
53. 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.
54. 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.
55. 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.
56. Saeidnia, F., Majidi, M.M., Mirlohi and Manafi M. 2017. Productivity, persistence and traits related to drought tolerance in smooth bromegrass. *Plant Breeding*: 136: 270-278.
57. Saeidnia,F, Majidi, M.M. and Mirlohi A. 2016. Physiological and tolerance indices useful for selection drought tolerance in smooth bromegrass. *Crop Science* 57: 282-288.
58. 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

59. 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.
60. 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.
61. 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
62. 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.
63. 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.
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65. Saeidnia,F., **Majidi, M.M.**, Mirlohi A., Shahidaval, S. 2016. Selection for productivity, persistence and drought tolerance in orchardgrass. *Euphytica*. 212: 11-130.
66. **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.
67. 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
68. **Majidi, M. M.**, Bahrami, S., Abtahi, M., Mirlohi, A. and Araghi, B. 2016. Genetic analysis of seed related traits in smooth bromegrass (*Bromus inermis*) under well-watered and water-stressed conditions. *Grass and Forage Science*. 72: 163-173.
69. 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
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72. 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.

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74. 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.
75. 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.
76. 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.
77. 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.
78. Zarabiyan, M. **Majidi**, M.M., 2015. Genetic diversity and relationships within and among *Onobrychis* species using molecular markers. *Turkish Journal of Botany*. 39: 681-692
79. **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.
80. 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.
81. 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.
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83. **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).
84. Arabbeigi, M., Arzani, A., **Majidi**, M.M., Kani, R., Seyed-Tabatabaii, 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.
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88. Derakhshan, E. Majidi, M.M. Sharifi, Y and Mirlohi, A. 2014. Discrimination and genetic diversity of cultivated and wild saffflowers (*Carthamus* spp.) using EST-microsatellite markers. *Biochemical Systematics and Ecology*. 54: 130-136
89. 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.
90. 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.
91. Zarabiyan, 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.
92. 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.
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