

In the name of God

Resume

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I. Personal Information

Name:	Hamidreza Balouchi
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II. Academic Background

<u>Degree</u>	<u>Institution(URL)</u>	<u>Field</u>	<u>Date</u>
Ph.D.	Tarbiat Modares University	Agronomy (Crop Physiology)	2003-2008
M. Sc.	Tarbiat Modares University	Agronomy	2001-2003
B. Sc.	Shiraz University	Agronomy and Plant Breeding	1997-2001
Diploma	Molasadra School	Natural Sciences	1993-1997

III. Computer Skills

Microsoft Office and Adobe, Mstatc and SAS

IV. Abstract of Theses in M.Sc.

Supervisor Dr. Tahmasebi Z.

Advisor Dr. Modarres Sanavy S.A.M.

**Effect of Plant Density and Nitrogen Fertilizer Rate on Yield and Yield Components of
Hulless Barley (*Hordeum vulgare* L.) Genotypes in Tehran Region**

V. Abstract of Dissertation in Ph.D.

Supervisor Dr. Modarres Sanavy S.A.M.

Advisors Dr. Emam Y. & Dr. Barzegar M.

Effect of Water Deficit, Ultraviolet Radiation and Carbon Dioxide Enrichment on Quantitative and Qualitative Characters of Bread Wheat (*Triticum aestivum* L.) and Durum Wheat (*Triticum turgidum* L.)

VI. Journal Papers

1. Balouchi, H.R., S.A.M. Modarres Sanavy., SH. Kayri. 2004. **Remote Management of Plant Growth by Applied the ICT.** Agriculture and Industry, 6 (56): 12-16.
2. Balouchi, H.R., M. Aghaalkhani. 2004. **The Need and Priority of Modern Researches in Sustainable Agriculture.** Agriculture and Sustainable Development, 1 (1): 7-9.
3. Balouchi H.R., S.A.M. Modarres Sanavy. 2005. **Conservation Tillage in Sustainable Agriculture.** Agriculture and Sustainable Development, 1 (2,3): 15-17.
4. Balouchi, H.R. Z. Tahmasbi Sarvestani, S.A.M. Modarres Sanavy. 2005. **Agronomic Factors on Selected Hulless Barley Genotypes.** Journal of Agronomy. 4 (4): 333-339.
5. Balouchi, H.R., Z. Tahmasbi Sarvestani, S.A.M. Modarres Sanavy. 2006. **Effect of Plant Density and Nitrogen Rate on Yield and Yield Components of Hulless Barley (*Hordeum vulgare* L.) Genotypes in Tehran Region.** Journal of Agricultural Science and Natural Resource Gorgan University. 12 (6): 90-99.
6. Balouchi H.R., S.A.M. Modarres Sanavy. 2006. **Effect of Gibberellic Acid, Prechilling, Sulfuric Acid and Potassium Nitrate on Seed Germination and Dormancy of Annual Medics.** Pakistan Journal of Biological Sciences, 9 (15): 2875-2880.
7. Mahdavi, B., S.A.M. Modarres Sanavy, H.R. Balouchi. 2008. **Effect of Sodium Chloride on Germination and Seedling Growth of Grasspea Variety (*Lathyrus sativus*).** Iranian Journal of Biology, 20 (4): 363-374.
8. Balouchi H.R., S.A.M. Modarres Sanavy., B. Alizadeh. 2008. **Effective Factors on Seed Dormancy and Germination of Two Annual Medics.** Iranian Journal of Biology, 21 (2): 261-270.
9. Mahdavi, B., Modarres Sanavy, S.A.M., H.R. Balouchi, 2008. **Effect of Electromagnetic Field on Seed Germination and seedling growth of Annual Medics, Barley, Dodder and Barnyard grass.** Iranian Journal of Biology, 21 (3): 433-443.
10. Tahmasbi Sarvestani, Z., H. Pirdashti, S.A.M. Modarres Sanavy., H.R. Balouchi. 2008. **Study of water stress effects in different growth stages on yield and yield components of different rice (*Oryza sativa* L.) cultivars.** Pakistan Journal of Biological Sciences, 11 (10): 1303-1309.
11. Balouchi H.R., S.A.M. Modarres Sanavy., Y. Emam, M. Barzegar. 2009. **Effect of Water Deficit, Ultraviolet Radiation and Carbon Dioxide Enrichment on Quantitative Traits of Durum Wheat (*Triticum turgidum* L. var. *Durum* Desf.)** Journal of Iranian Crop Plant Science, Tehran University, 40 (3): 41-52.

12. Balouchi H.R., S.A.M. Modarres Sanavy., Y. Emam, M. Barzegar. 2008. **Effect of Water Deficit, Ultraviolet Radiation and Carbon Dioxide Enrichment on flag Leaf Qualitative Characters of Durum Wheat (*Triticum turgidum* L.).** Journal of Agricultural Science and Technology and Natural Resources, Isfahan University, 12 (45): 167-181.
13. Balouchi H.R., S.A.M. Modarres Sanavy., Y. Emam. 2009. **Effect of Water Deficit, Ultraviolet Radiation and Carbon Dioxide Enrichment on Leaf Qualitative Characters of Bread Wheat (*Triticum aestivum* L.).** Journal of Iranian Crop Plant Science, Tehran University, 40 (4): 47-57.
14. Balouchi H.R., S.A.M. Modarres Sanavy. 2009. **Electromagnetic field impact on annual medics and dodder seed germination.** Int. Agrophysics, 23, 111-115.
15. Balouchi H.R., S.A.M. Modarres Sanavy., Y. Emam, A. Dolatabadian 2009. **UV radiation, elevated CO₂ and water stress effect on growth and photosynthetic characteristics in durum wheat.** Plant Soil Environ., 55 (10): 443–453
16. Balouchi H.R., S.A.M. Modarres Sanavy., Y. Emam, A. Dolatabadian 2009. **Effect of CO₂ Enrichment, Ultra-violet and Drought stress on some traits of Bread Wheat (*Triticum aestivum* L.).** Journal of Agricultural Science and Natural Resource Gorgan University. 16 (1): 131-143.
17. Balouchi H.R., 2010. **Screening Wheat Parents of Mapping Population for Heat and Drought Tolerance, Detection of Wheat Genetic Variation.** International Journal of Biological and Life Sciences, 7(2): 62-72.
18. Mojab Ghasrodashti A. Balouchi H.R. and Yadavi A.R. 2011. **Effect of municipal solid waste compost and nitrogen fertilizer on grain yield, forage production and some morphological traits of sweet corn (*Zea mays* L. sacchrata).** Electronic Journal of Crop Production, 4 (1): 115-130
19. Fallah Heki M.H., Yadavi A.R., Movahhedi Dehnavi M. and Balouchi H.R., 2011. **Evaluation of oil, protein and grain yield of canola cultivars in different planting date in Yasouj region.** Electronic Journal of Crop Production, 4 (2): 207-222.
20. Sajadinik, R., A. Yadavi, Balouchi, H.R., Faraji, H. 2011. **Effect of Chemical (Urea), Organic (Vermicompost) and Biological (Nitroxin) Fertilizers on Quantity and Quality Yield of Sesame (*Sesamum indicum* L.).** Journal Of Sustainable Agriculture And Production Science, 21 (2): 87-101.
21. Behzadi, B., Balouchi, H.R. and Mazahery D. 2012. **Effect of Cultivar and Plant Density by change of Row Spacing on some of the Quantitative and Qualitative Characteristics of Canola (*Brassica napus* L.) in Jiroft Region.** Agronomy Journal (Pajouhesh & Sazandegi), 93: 65-73.
22. Fallah Heki, M.H., Yadavi, A.R., Movahhedi Dehnavi, M., Balouchi, H.R. and Farajee, H. 2012. **The Effect of Planting Date on Phonological Stages and Quantity Traits of Four Winter Rapeseed Cultivars in Yasouj.** The Plant Production (Scientific Journal of Agriculture), 35(2): 99-113.
23. Javadipour, Z., Movahhedi Dehnavi, M., and Balouchi, H.R. 2013. **Changes in the rate of proline, soluble sugars, glycinebetaine and protein content in leaves of six spring safflower (*Carthamus tinctorius* L.) under salinity stress.** Plant Process and Function, 1(2): 13-24.

24. Mojab Ghasrodashti A. <u>Balouchi H.R.</u> , Yadavi, A.R. and Mousavi, S.Y. 2012. Effect of Municipal Solid Waste Compost and Nitrogen on Forage Quantity and Quality Yield of Sweet Corn. The Plant Production (Scientific Journal of Agriculture), 35(1): 43-54.
25. Emadi, N., <u>Balouchi, H.R.</u> and Jahanbin, Sh. 2012. Effect of drought stress and plant density on yield, yield components and some morphological characters of pinto bean (cv. C.O.S16) in Yasouj region. Electronic Journal of Crop Production, 5(2): 1-17.
26. <u>Balouchi H.R.</u> , Yadavi, A.R. and Movahhedi Dehnavi, M. 2012. Effect of NaCl on <i>Nigella sativa</i> and <i>Silybum marianum</i> Seed Germination Indices. Iranian Journal of Biological Sciences, 6(4): 41-50
27. <u>Balouchi H.R.</u> , Yadavi, A.R. and Movahhedi Dehnavi, M. 2012. Effect of Drought Stress on <i>Nigella sativa</i> and <i>Silybum marianum</i> Seed Germination Indexes. Crop and Weed Ecophysiology, 20: 97-108.
28. Maleki Narg Mousa, M., and <u>Balouchi H.R.</u> , 2012. Effects of Nitrogen and Phosphorus chemical and biological fertilizers on yield and yield components of sweet corn (<i>Zea mays var saccharata</i>). Journal of Plant Production Research, 19(4):56-75.
29. Amiry Hosinkhani, M., Panahi Kordlaghari, K., and Balouchi H.R. 2013. Effects of potassium and iron nutrient elements on the quantity yield of Shariar wheat cultivar in Boyerahmad Reign. Annals of Biological Research, 4 (4): 56-60.
30. Ahmadpoor Dehkordi, S., and <u>Balouchi, H.R.</u> 2013. Effect of seed priming on antioxidant enzymes and lipids peroxidation of cell membrane in Black cumin (<i>Nigella sativa</i>) seedling under salinity and drought stress. Electronic Journal of Crop Production, 5(4): 63-85.
31. Izedi Kherameh, H., <u>Balouchi, H.R.</u> , Shabani, S. 2012. Effect of soil application of Fe and ZnSO₄ on grain yield and yield components of wheat at different sowing dates. Plant Ecophysiology, 4(1): 37-46.
32. Kayednezami, R., <u>Balouchi, H.R.</u> and Yadavi, A. 2012. Effect of foliar application of Salicylic Acid on yield and yield components and some physiological traits of Lentil (<i>Lens culinaris</i> Medik) varieties under salt stress. Iranian Journal of Pulses Research, 3(2): 97-110.
33. Zafarpoor, Z., Yadavi, A., Dehdari, A. <u>Balouchi, H.R.</u> 2012. Evaluation of some physiological characteristics in different spring canola genotypes under drought stress. Journal of Crop Production and Processing, 3(7): 145-155.
34. Emadi, N., Jahanbin, Sh. and <u>Balouchi, H.R.</u> 2013. Effect of drought stress and plant density on yield and some physiological characters of Pinto bean (<i>Phaseolus vulgaris</i> L.) in Yasouj region. Journal of Crop Production and Processing, 3(8): 25-35.
35. Javadipour, Z., Movahhedi Dehnavi, M. and <u>Balouchi, H.R.</u> 2013. Evaluation of photosynthesis parameters, chlorophyll content and fluorescence of safflower cultivars under saline condition. Electronic Journal of Crop Production, 6(2): 35-56.
36. Bagheri F, Balouchi H. 2013. The Effect of Planting Date on Some Quantitative and Qualitative Traits of Nine Grain Sorghum (<i>Sorghum bicolor</i> L.) Cultivars in Yasouj Region. Journal of Crop Production and Processing, 3 (9) :29-43
37. Meerajipour, M., M. Movahhedi Dehnavi, H.R. Balouchi, and M. Meerajipour. 2013. Study the effect of cycocel on safflower yield and yield components at different levels of nitrogen and plant density. Electronic Journal of Crop Production, 6(3): 17-32.

38. Maleki Narg, M., H.R. Balouchi, H. Farajee, and A. Yadavi. 2013. The effect of nitrogen and phosphorus chemical and biological fertilizers on grain yield and qualitative traits of sweet corn. Journal of Sustainable Agriculture and Production Science, 23 (3): 89-104.
39. Balouchi H. 2014. Effects of Seed Priming on Germination and Seedling Growth of Cucurbit (<i>Cucurbita pepo</i>) Medical Plants under Salinity Stress. Journal of Crop Production and Processing, 3 (10):165-179.
40. Balouchi, H.R. and S. Ahmadpoor Dehkordi. 2013. Effect of different seed priming on germination traits in Black cumin (<i>Nigella sativa</i>) under salinity stress. Journal of Plant Production Research, 20(3):1-25.
41. Kayednezami, R., and Balouchi, H.R. 2013. Effect of salicylic acid priming on lens cultivars (<i>Lens culinaris</i> Medik.) germination and some physiological traits under salinity conditions. Iranian Journal of Plant Biology, 18(1): 15-36.
42. Mojab Ghasrodashti, A., Balouchi, H.R., Yadavi, A., and Ghobadi, G. 2014. Effect of different levels of municipal solid waste compost and nitrogen on some grain elements concentration of sweet corn (<i>Zea mays</i> L. <i>saccharata</i>) and some soil properties under Marvdasht conditions. Journal of Agroecology, 6(1): 118-129.
43. Balouchi, H.R., Bagheri, F., Kayednezami, R., Movahhedi Dehnavi, M. and Yadavi, A. 2014. Effect of seed aging on germination and seedling growth indices in three cultivars of <i>Brassica napus</i> L. Journal of Plant Researches (Iranian Journal of Biology), 26(4): 397-411.
44- Karami, M., Balouchi, H.R. and Yadavi, A. 2014. Effect of manure and foliar application of zinc and manganese on yield and yield components in soybeans (<i>Glycine max</i> L., var. <i>Williams</i>). International Journal of Advanced Biological and Biomedical Research, 2 4(2): 120-128.
45- Saeidi Aboueshaghi, R., Yadavi, A., Movahhedi Dehnavi, M., and Balouchi, H.R. 2014. Effect of irrigation intervals and foliar application of iron and zinc on some physiological and morphological characteristics of red bean (<i>Phaseolous vulgaris</i> L.). Journal of Plant Process and Function, 3 (7): 27-42.
46- Masoumi Asl, A., Amiri Fahlani, R. and Balouchi, H.R. 2014. The reaction of different cultivars of rice (<i>Oryza sativa</i> L.) to high and low salinity in vitro condition. Iranian Journal of Seed Research, 1 (1): 20-32.
47- Yadavi, A., Pireh, P. and Balouchi, H.R. 2014. Effect of Vermicompost fertilizer and <i>Arbuscular mycorrhiza</i> on physiological and morphological characteristics of soybean (M9 variety) under cadmium chloride toxicity. Advances in Environmental Biology, 8(13): 1168-1175.
48- Yadavi, A., Saeidi Aboueshaghi, R., Movahhedi Dehnavi, M. and Balouchi, H.R. 2014. Effect of micronutrients foliar application on grain qualitative characteristics and some physiological traits of bean (<i>Phaseolus vulgaris</i> L.) under drought stress. Indian Journal of Fundamental and Applied Life Sciences, 4(S4): 124-131.
49. Yousefpoor, Z., Yadavi, A., Balouchi, H.R. and Farajee, H. 2014. Evaluation of yield and some physiological, morphological and phonological characteristics in Sunflower (<i>Helianthus annuus</i> L.) influenced by biological and chemical Fertilizer of nitrogen and phosphorus. Journal of Agroecology, 6(3): 508-519.
50. Balouchi, H.R., Ahmadpoor Dehkordi, S., Movahhedi Dehnavia, M. and Behzadi, B. 2015. Effect of priming types on germination of <i>Nigella sativa</i> under osmotic stress. South Western Journal of Horticulture, Biology and Environment, 6(1): 1-20.

51. Alizadeh, M., <u>Balouchi, H.R.</u> , and Movahhedi Dehnavia, M. 2015. Effect of zinc sulphate and salicylic acid foliar application on morphological characteristics and yield of safflower under drought stress. Journal of Oil Plants Production, 1(2): 41-52.
52. Shahbazi Zadeh E, Movahhedi Dehnavi M, <u>Balouchi H.</u> 2015. Effects of foliar application of salicylic and ascorbic acids on some physiological characteristics of soybean (cv. Williams) under salt stress. Journal of Oil Plants Production, 4(11): 13-22.
53. Kayednezami, R., and Balouchi, H.R. 2014. Physiological responses of Lentil (<i>Lentil culinaris</i> Medik) to salinity stress and foliar application salicylic acid. Iranian Journal of Pulses Research, 5(2): 83-98.
54. Maleki Narg Mousa, M., <u>Balouchi, H.R.</u> and Attarzadeh, M. 2015. Effect of seed priming on some germination traits and seedling growth of safflower under drought stress. Iranian Journal of Seed Research, 2(1): 1-9.
55. <u>Balouchi, H.R.</u> , Kayednezami, R., and Bagheri, F. 2015. Effect of seed deterioration stress on germination and seedling growth indices in three cultivars of Safflower (<i>Carthamus tinctorius</i> L.). Journal of Plant Production, 38(1): 27-40.
56. Mardani, F., and <u>Balouchi, H.R.</u> 2015. Effect of Intercropping on the yield and some quantitative and qualitative traits of Fenugreek and Anise. Journal of Sustainable Agriculture and Production Science, 25 (2): 1-16.
57. Mardani, F., <u>Balouchi, H.R.</u> , Yadavi, A., and Salehi, A. 2015. Yield, yield components, and weed control of Fenugreek (<i>Trigonella foenumgreacum</i> L.) and Anise (<i>Pimpinella anisum</i> L.) under Row Intercropping System. Iranian Journal of Field Crops Research, 13 (3): 623-636.
58. Pasban, F., <u>Balouchi, H.R.</u> , Yadavi, A., Salehi, A., and Attarzadeh, M. 2015. The role organic and biological fertilizers in qualitative and quantitative yield of Soybean (<i>Glycine max</i> L.) cvWilliams. Journal of Sustainable Agriculture and Production Science, 25 (3): 137-149.
59. Behzadi, Y., Salehi, A., <u>Balouchi, H.R.</u> , and Yadavi, A. 2016. Effect of biological, organic and chemical fertilizers on yield and yield components of Anise (<i>Pimpinella anisum</i> L.). Journal of Sustainable Agriculture and Production Science, 25 (4): 161-175.
60. Behzadi, Y., Salehi, A., <u>Balouchi, H.R.</u> , and Khaledi, F. 2016. Allelopathic effect of Yarrow (<i>Achilla wilhelmsii</i> L.) and Habek Mint (<i>Mentha longifolia</i> (L.) Huds) on seed germination indices of Plantain (<i>Plantago major</i> L.). Iranian Journal of Seed Research, 2 (2): 99-111.
61. Haghanian, S., Yadavi, A., <u>Balouchi, H.R.</u> , and Moradi, A. 2016. Grain, oil yield and nitrogen use efficiency in different varieties of sesame (<i>Sesamum indicum</i> L.) under nitrogen fertilizer and weed competition. Journal of Sustainable Agriculture and Production Science, 26 (1): 67-81.
62- Baladi, S. and <u>Balouchi, H.R.</u> 2016. Evaluation of <i>Lallemantia royleana</i> seed longevity under varying conditions of temperature and moisture content. Seed Science and Technology, 44(2): 320-326.
63. <u>Balouchi, H.R.</u> , Amini, F., Movahhedi Dehnavi M, and Attarzadeh, M. 2016. Effect of Different Growing Organic Substrates on Growth and Yield Components of Pinto Bean (<i>Phaseolus vulgaris</i> L.) under Heavy Metals Stress. Journal of Sustainable Agriculture and Production Science, 26 (2): 57-72.

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65. Alizade, M., <u>Balouchi, H.</u> , and Yadavi, A. 2016. The effect of seed priming and irrigation water quality on grain yield, oil yield and yield components of two sesame (<i>Sesamum indicum</i> L.) genotypes . Journal of Plant Production, 39(2):115-125.
66. Alizade, M., <u>Balouchi, H.</u> , and Yadavi, A. 2016. The effect of priming and salinity on the germination characteristics of two sesame genotype (<i>Sesamum indicum</i> L.) . Journal of Seed Research, 6(1):57-69.
67. Sorbi, E., Moradi, A., Masoumi Asal, A., and <u>Balouchi, H.</u> 2016. Optimization of Callus Induction and Somatic Embryogenesis in Two Genotypes of Medicinal Chavil Plant (<i>Ferulago angulata</i> L.) . Journal of Plant Production Research, 23(3):41-62.
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71. Amini, F., <u>Balouchi, H.</u> , Movahhedi Dehnavi, M., and Attarzadeh, M. 2016. Effects of different concentrations of heavy metals application on germination indices and seed vigor of Pinto bean (<i>Phaseolus vulgaris</i> L.) . Iranian Journal of Seed Science and Research, 3(2): 95-105.
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73. Dehghan, M., <u>H. R. Balouchi</u> , A. R. Yadavi and F. Safikhani. 2017. Effect of foliar application of brassinolide on grain yield and yield components of bread wheat (<i>Triticum aestivum</i> L.) cv. Sirvan under terminal drought stress conditions . Iranian Journal of Crop Sciences. 19(1): 40-56.
74. <u>Balouchi, H.</u> and R. Ostadian Bidgoly. 2017. Effect of Seed Deterioration on Physiological and Biochemical Traits of Oil Flax (<i>Linum usitatissimum</i> L. Norman var.) Seed . Journal of Plant Production, 40(2):35-52.
75. Ostadian Bidgoly, R., <u>H. Balouchi</u> , E. Soltani, and A. Moradi. 2017. Effect of temperature and water potential on seed germination characteristics in Safflower (<i>Carthamus tinctorius</i> L.) Sofeh var. Iranian Journal of Seed Science and Technology, 6 (1): 11-22.
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77. Rezai, A., <u>Balouchi, H.</u> , Movahhedi Dehnavi, M. and Adhami, E. 2017. Effect of seed priming and cadmium on seedling physiological traits and produced seed germination indices of sorghum (<i>Sorghum bicolor</i> L.) sor834 genotype . Environmental Stresses in Crop Sciences, 10(4): 655-671. DOI 10.22077/escs.2017.41.1011.

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80. Parsaei, S., Movahhedi Dehnavi, M., and Balouchi, H. 2017. Effect of zinc and boron foliar application on maternal plant and seed enrichment on vigor and germination indices of sesame (<i>Sesamum indicum</i> cv. Darab 1) . Iranian Journal of Seed Research, 4(1): 89-102.
81. Ostadian Bidgoly, R., Balouchi, H., Soltani, E., and Moradi, A. 2018. Effect of temperature and water potential on <i>Carthamus tinctorius</i> L. seed germination: Quantification of the cardinal temperatures and modeling using hydrothermal time . Industrial Crops & Products, 113: 121-127.
82. Balouchi, H.R., and Amini, F. 2017. The effect of heavy metals and different combination of planting beds on antioxidant enzymes in pinto bean (<i>Phaseolus vulgaris</i> L. cv. Sadri) . Journal of Plant Researches (Iranian Journal of Biology), 30(3): 683-694.
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84. Attarzadeh, M., Balouchi, H. and Baziar, M.R. 2018. Effects of paclobutrazol's pre-treatment on cold tolerance induction in soybean seedling (<i>Glycine max</i> L.) . 2018. Italian Journal of Agronomy, 13(2): 155-162. DOI:10.4081/ija.2018.1034.
85. Rezai, A., Balouchi, H., Movahhedi Dehnavi, M. and Adhami, E. 2018. Effect of Different Priming on Seed Germination Indices and Enzyme of Sorghum (<i>Sorghum bicolor</i> L.) SOR834 Genotype under Cadmium Chloride and Nitrate Toxicity . Journal of Plant Production, 41(1): 69-82. DOI 10.22055/PPD.2018.13551.
86. Dehghan, Z., Movahhedi Dehnavi, M., Balouchi, H., and Salihi, A. 2018. Effect of salicylic acid on some physiological characteristics of common Purslane (<i>Portulaca oleracea</i> L.) under NaCl stress . Journal of Plant Process and Function, 7(23): 97-110.
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88. Nazarian, S., Yadavi, A., Movahedi Dehnavi, M., and Balouchi, H. 2018. Effect of irrigation cut-off and different nutritional systems on yield and yield components of spring safflower in Yasouj region . Electronic Journal of Crop Production, 11(1): 101-112. DOI: 10.22069/EJCP.2018.12308.1952
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65. Ahmadpoor Dehkordi, S., H.R. Balouchi, M. Movahedi Dehnavi. 2012. **Effect of different priming on black cumin (*Nigella sativa* L.) Germination under different levels of salt stress.** Proceedings of National Congress on Medicinal Plants. P 133.
66. Balouchi, H.R.,Y. Behzadi, H. Heydari, M. Vafaiepoor. 2014. **Allelopathic effect of corn plant residue (704 Var.) on seed germination indices of wheat (Kouhdasht Var.).** The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.
67. Balouchi, H.R.,Y. Behzadi, H. Heydari, H. Tasdighi. 2014. **Effect of Salicylic Acid on Seed Germination of lentil (local variety Safashahr) under Salt Stress.** The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.
68. Baladi, S., H.R. Balouchi, A. Moradi, M. Movahhedi Dehnavi. 2014. **Improving germination traits of deterioration Balangou seed (*Lallemantia royleana*) by different**

pretreatments. The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.

69. Baladi, S., H.R. Balouchi, A. Moradi, M. Movahhedi Dehnavi. 2014. **The effect of different pre treatments on improving germination traits of deterioration flax seed (Mass of Red flax).** The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.

70. Mardani, F., H.R. Balouchi, A. Yadavi, A. Salehi. 2014. **Evaluation of Fenugreek (*Trigonella foenum-greacum* L.) and Anise (*Pimpinella anisum* L.) Yield, Yield Components and Weed Control Potential in Intercropping Conditions.** The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.

71. Moradi, A., H.R. Balouchi. 2014. **Effect of seed priming on seed germination and seedling growth characteristics of deteriorated rapeseed (*Brassica napus*).** The 1st International and 13th Iranian Crop Sciences Congress and 3rd Iranian Seed Science and Technology Conference, Karaj, Iran.

72. Balouchi, H.R., Yadavi, A. and Pire, P. 2014. **The Different reactions of soybean to cadmium chloride in presence of Mycorhiza and Vermicompost fertilizer.** Fourth International Conference on Food Studies 20-21 October 2014 Monash University Prato Centre Prato, Italy.

73. Balouchi, H.R., 2015. **The effect of priming on seed germination of sorghum genotypes SOR834 under cadmium chloride and nitrate.** 2nd International Congress of Agricultural Science and Environment, 7 March 2015, Shahid Beheshti University, Tehran, Iran.

74. Mardani, F., Balouchi, H.R., Yadavi, A., and Salehi, A. 2015. **Effects of intercropping on the yield and some physiological traits of two plants fenugreek and anise.** 4th National Congress on Medicinal Plants. 12, 13 May 2015, Tehran- Iran.

75. Behzadi, Y., Salehi, A., Balouchi, H.R., and Yadavi, A. 2015. **Effect of biological, organic and chemical fertilizers on yield and yield components of anise (*Pimpinella anisum* L.).** 4th National Congress on Medicinal Plants. 12, 13 May 2015, Tehran- Iran.

76. Ajribzadeh, Z., Balouchi, H.R., Yadavi, A., and Salehi, A. 2015. **Allelopathic effects of different concentrations of nine weed species on germination characteristics of Anise medicinal plant (*Pimpinella anisum*).** 2nd National Conference of Environmental Stresses on plants, Shahid Bahonar University, Kerman, Iran.

77. Alizadeh, M., Balouchi, H.R., and Yadavi, A. 2015. **Seed priming effect on seedling characteristics of two sesame *Sesamum indicum* L. variety in salinity stress.** 2nd National Conference of Environmental Stresses on plants, Shahid Bahonar University, Kerman, Iran.

78. Ajribzadeh, Z., Balouchi, H. and Yadavi, A. 2015. **The effect of priming on the germination of anise affected by weeds allelopathic Wild Oat, Cowherb, Plantain, Cheatgrass and Hairy vetch.** 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.

79. Ostadian Bidgoly, R., and Balouchi, H. 2015. **Germination index and some antioxidant enzymes in oil flax (*Linum usitatissimum* L.) during storage at different temperature and seed moisture.** 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.

80. Rezai, A., Balouchi, H., Movahhedi Dehnavi, M., and Adhami, I. 2015. **The effect of different priming on some physiological traits of sorghum (*Sorghum bicolor* L.) genotype SOR834 under toxicity of chloride and nitrate cadmium.** 4th Iranian conference of Plant

Physiology, Tarbiat Modares University, Tehran, Iran.
81. Sohrabiani, S., Moradi, A., Salehi, A., and <u>Balouchi, H.</u> 2015. Effect of Hydropriming, Halopriming and Hormonal priming on germination and some physiological traits of cumin seed (<i>Cuminum cyminum</i> L.) 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
82. Mehrabi Kooshki, M., Moradi, A., <u>Balouchi, H.</u> , and Amiri Fahliani, R. 2015. Studying the change of some physiological traits in faba bean seeds (<i>Vicia faba</i> L.) under different storage conditions. 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
83. Soltani, M., Moradi, A., Tavakkol Afshari, R., and <u>Balouchi, H.</u> 2015. Investigation of some biochemical changes of aged castor bean (<i>Ricinus communis</i> L.) seeds under different storage conditions 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
84. Soltani, M., Moradi, A., Tavakkol Afshari, R., and <u>Balouchi, H.</u> 2015. The effect of different storage conditions on germination and seed vigor index of castor bean (<i>Ricinus communis</i> L.) seeds 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
85. <u>Balouchi, H.</u> , Pasban, F., Yadavi, A., and Salehi, A. 2016. Effect of organic and biological fertilizers on yield and yield components of soybean (<i>Glycine max</i> L.) cv. Williams. Challenges in Building a Sustainable Biobased Economy (ECO-BIO) Conference, 6-9 March 2016, Elsevier Ltd, Postillion Convention Centre WTC Rotterdam, Netherlands.
86. Piri R., Moradi A., Salehi A., and <u>Balouchi H.</u> 2016. The effect of seed bio-priming with pseudomonas fluorescent on germination and seedling indices of cumin (<i>Cuminum cyminum</i> L.). 5th National Congress on Medicinal Plants. 18, 19 May 2016, Isfahan- Iran.
87. <u>Balouchi, H.</u> , Baladi, S., Moradi, A., and Movahhedi Dehnavi, M. 2016. Assessment of the longevity and viability coefficient in two genotypes of flax seed oil under different storage conditions. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
88. Dehghan, M., <u>Balouchi, H.</u> , Yadavi, A., and Safikhani, F. 2016. Effects of brassinosteroid and drought stress in maternal plant on some quality traits in SIRVAN cultivar wheat seed. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
89. Dehghan, M., <u>Balouchi, H.</u> , Yadavi, A., and Zare, E. 2016. Evaluation of Brassinolide and drought stress in two stages, on some physiological parameters in SIRVAN wheat cultivar. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
90. Sohrabiani, S., Moradi, A., Salehi, A., and <u>Balouchi, H.</u> 2016. Germination response of pretreated seeds of cumin (<i>Cuminum cyminum</i> L.) with different longevity to drought stress. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
91. Mehrabi Kooshki, M., Moradi, A., <u>Balouchi, H.</u> , and Amiri Fahliani, R. 2016. Effect of storage temperature and seed moisture content on germination quality of faba bean (<i>Vicia faba</i>). 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.

92. Yadavi, A., Haghanian, S., <u>Balouchi, H.</u> , Moradi, A., and Maghsoudi, E. 2016. The effect of different amount of nitrogen fertilizer on morphological and agronomic traits of different cultivars of sesame (<i>Sesamum indicum</i> L.) under weeds competition. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
93. Yadavi, A., Haghanian, S., <u>Balouchi, H.</u> , Moradi, A., and Maghsoudi, E. 2016. Investigate the effect of nitrogen on yield and yield components of sesame cultivars (<i>Sesamum indicum</i> L.) under weeds competition. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
94. Yadavi, A., Arab, R., <u>Balouchi, H.</u> , and Khadem Haamzeh, H. 2016. Sunflower Response to Foliar Application of Iron and Zinc in Water Stress Condition. 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
95. Attarzadeh, M., <u>Balouchi, H.</u> , and Baziar, M.R. 2016. Effects of paclobutrazol pretreatment on cold tolerance induction in soybean seedling (<i>Glycine max</i> L.). 3rd International Conference on Sustainable Agriculture and Environment, September 26-28, 2016, Warsaw, Poland
96. Piri, R., Moradi, A., Salehi, A., and <u>Balouchi, H.</u> 2017. Effect of seed coating on some germination and seedling indices of cumin (<i>Cuminum cyminum</i> L.). 6 th National Congress on Medicinal Plants. 9-10th May. Tehran, Iran.
97. Teimori, H., and <u>Balouchi, H.</u> 2018. The effect of accelerated aging on germination Fenugreek (<i>Trigonella foenum-graecum</i>). 4 th National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.
98. Teimori, H., Tarfan, S., and <u>Balouchi, H.</u> 2018. Effect of Salicylic Acid on Niger Seed (<i>Guizotia abyssinica</i>) Germination under Salt Stress Conditions. 4 th National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.
99. Hoseinipour, A., Yadavi, A., and <u>Balouchi, H.</u> 2018. Modeling of <i>Sesamum Indicum</i> Seed Germination under Drought Stress in Two Temperatures through the Hydrotime Analysis. 4 th National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.
100. Dehghan, M., <u>Balouchi, H.</u> , Yadavi, A., and Zare, E. 2018. Investigate the effect of nitrogen on yield and yield components of sesame cultivars (<i>Sesamum indicum</i> L.) under weeds competition. 15th National Iranian Crop Science Congress, 4-6 Sep. Karaj, Iran.

VIII. Research Interest

Seed Technology

Crop Physiology

Ecology (Ecophysiology)

IX. Work Experience and Other Activities:

* Best Selected student of Shiraz university (2000)

* First Grade in B.Sc. Graduated Student in Shiraz University. (2001)

* First Grade in M.Sc. Entrance Exam in Iran. (2001)

* Head of Students Scientific Association in Shiraz University. (2000-2001)

* Head of Students Scientific Association in Tarbiat Modares University (2002- 2008)
* Head of 2nd Congress of Agricultural Students in Iran. (Tarbiat Modarres University 2004)
* First Grade in Ph.D. Entrance Exam in Tarbiat Modarres University (2003)
* Member of Iran Weed Science Association (2002- Present)
* Member of Iran Agronomy and Plant Breeding Association (2002- Present)
* Member of Organization of Agricultural and Natural Resource Engineering (2002-Present)
* Teaching the Agronomy and Cereal in Shushtar Islamic Azad University (2003-2004)
* Teaching the Botany I, Pulse and Seed Technology in Yasouj University (2008-Present)
* Deputy of Education manager of Yasouj University (2011)
* Head of Agronomy and Plant Breeding Department of Yasouj University (2011-2013)
* Head of Open and Virtual Training Center of Yasouj University (2018-2020)
* Director of Research and Graduate Studies at Yasouj University (2020-Present)

X. Sabbaticals:

The School of Agriculture, Food and Wine Faculty of Sciences at the Waite Campus of the University of Adelaide, Australia November 2006-April 2007

- (i) Mapping Boron Tolerance in a Doubled Haploid Population of Wheat
- (ii) A Study of the Production of Anthocyanin under Drought and Heat Stress in Wheat
- (iii) Screening and Detection of Wheat Genetic Variation to Water and Heat Stress

XI. The editorial board membership of the following journal(s):

The editorial board membership of the following journal(s) from June 2007:

1. European Journal of Agronomy
2. Journal of Cleaner Production
3. Plant Growth Regulation
4. Crop & Pasture Science
5. Grass & Forage Science
6. Italian Journal of Agronomy
7. International Journal of Agricultural Research
8. Asian Journal of Crop Science
9. Asian Journal of Plant Sciences
10. Asian Journal of Agricultural Research
11. American Journal of Plant Physiology
12. Research Journal of Agricultural Research
13. Research Journal of Seed Science
14. Pajouhesh & Sazandegi

15. Electronical Journal Crop Production
16. Agriculture science
17. Iranian Journal of Seed Research

XII. The Projects

- 1- Balouchi, H.R., A. Yadavi, 2011. Effects of seed priming on germination and seedling growth of Dill (*Anethum graveolens*), Oat (*Avena sativa*) and Cucurbit (*Cucurbita pepo*) medical plants under salinity stress
- 2- Balouchi, H.R., A. Yadavi, 2012. Effects of salicylic acid on germination, growth and some physiological characters of two barley (*Hordeum vulgar* L) under salinity stress
- 3- Balouchi, H.R., 2016. Effect of seed deterioration on germination and some antioxidant enzymes activity of two varieties of oil flax (*Linum usitatissimum* L.)