

In the name of God

Resume

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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 CO<sub>2</sub> 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 CO<sub>2</sub> 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. Balouchi H.R., 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., Balouchi, H.R. 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. Balouchi H.R., Yadavi, A.R. and Movahhedi Dehnavi, M. 2012. **Effect of NaCl on *Nigella sativa* and *Silybum marianum* Seed Germination Indices.** Iranian Journal of Biological Sciences, 6(4): 41-50
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28. Maleki Narg Mousa, M., and Balouchi H.R., 2012. **Effects of Nitrogen and Phosphorus chemical and biological fertilizers on yield and yield components of sweet corn (*Zea mays var saccharata*).** 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.
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36. Bagheri F, Balouchi H. 2013. <b>The Effect of Planting Date on Some Quantitative and Qualitative Traits of Nine Grain Sorghum (<i>Sorghum bicolor</i> L.) Cultivars in Yasouj Region.</b> Journal of Crop Production and Processing, 3 (9) :29-43
37. Meerajipour, M., M. Movahhedi Dehnavi, H.R. Balouchi, and M. Meerajipour. 2013. <b>Study the effect of cycocel on safflower yield and yield components at different levels of nitrogen and plant density.</b> Electronic Journal of Crop Production, 6(3): 17-32.
38. Maleki Narg, M., H.R. Balouchi, H. Farajee, and A. Yadavi. 2013. <b>The effect of nitrogen and phosphorus chemical and biological fertilizers on grain yield and qualitative traits of sweet corn.</b> Journal of Sustainable Agriculture and Production Science, 23 (3): 89-104.
39. Balouchi H. 2014. <b>Effects of Seed Priming on Germination and Seedling Growth of Cucurbit (<i>Cucurbita pepo</i>) Medical Plants under Salinity Stress.</b> Journal of Crop Production and Processing, 3 (10):165-179.
40. <u>Balouchi, H.R.</u> and S. Ahmadpoor Dehkordi. 2013. <b>Effect of different seed priming on germination traits in Black cumin (<i>Nigella sativa</i>) under salinity stress.</b> Journal of Plant Production Research, 20(3):1-25.
41. Kayednezami, R., and <u>Balouchi, H.R.</u> 2013. <b>Effect of salicylic acid priming on lens cultivars (<i>Lens culinaris</i> Medik.) germination and some physiological traits under salinity conditions.</b> Iranian Journal of Plant Biology, 18(1): 15-36.
42. Mojab Ghasrodashti, A., Balouchi, H.R., Yadavi, A., and Ghobadi, G. 2014. <b>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.</b> Journal of Agroecology, 6(1): 118-129.
43. <u>Balouchi, H.R.</u> , Bagheri, F., Kayednezami, R., Movahhedi Dehnavi, M. and Yadavi, A. 2014. <b>Effect of seed aging on germination and seedling growth indices in three cultivars of <i>Brassica napus</i> L.</b> Journal of Plant Researches (Iranian Journal of Biology), 26(4): 397-411.
44- Karami, M., <u>Balouchi, H.R.</u> and Yadavi, A. 2014. <b>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>).</b> International Journal of Advanced Biological and Biomedical Research, 2 4(2): 120-128.
45- Saeidi Aboueshaghi, R., Yadavi, A., Movahhedi Dehnavi, M., and <u>Balouchi, H.R.</u> 2014. <b>Effect of irrigation intervals and foliar application of iron and zinc on some physiological</b>

<p><b>and morphological characteristics of red bean (<i>Phaseolous vulgaris</i> L.).</b> Journal of Plant Process and Function, 3 (7): 27-42.</p>
<p><b>46- Masoumi Asl, A., Amiri Fahliani, R. and Balouchi, H.R.</b> 2014. <b>The reaction of different cultivars of rice (<i>Oryza sativa</i> L.) to high and low salinity in vitro condition.</b> Iranian Journal of Seed Research, 1 (1): 20-32.</p>
<p><b>47- Yadavi, A., Pireh, P. and Balouchi, H.R.</b> 2014. <b>Effect of Vermicompost fertilizer and Arbuscular mycorrhiza on physiological and morphological characteristics of soybean (M9 variety) under cadmium chloride toxicity.</b> Advances in Environmental Biology, 8(13): 1168-1175.</p>
<p><b>48- Yadavi, A., Saeidi Aboueshaghi, R., Movahhedi Dehnavi, M. and Balouchi, H.R.</b> 2014. <b>Effect of micronutrients foliar application on grain qualitative characteristics and some physiological traits of bean (<i>Phaseolus vulgaris</i> L.) under drought stress.</b> Indian Journal of Fundamental and Applied Life Sciences, 4(S4): 124-131.</p>
<p><b>49. Yousefpoor, Z., Yadavi, A., Balouchi, H.R. and Farajee, H.</b> 2014. <b>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.</b> Journal of Agroecology, 6(3): 508-519.</p>
<p><b>50. Balouchi, H.R., Ahmadpour Dehkordi, S., Movahhedi Dehnavia, M. and Behzadi, B.</b> 2015. <b>Effect of priming types on germination of <i>Nigella sativa</i> under osmotic stress.</b> South Western Journal of Horticulture, Biology and Environment, 6(1): 1-20.</p>
<p><b>51. Alizadeh, M., Balouchi, H.R., and Movahhedi Dehnavia, M.</b> 2015. <b>Effect of zinc sulphate and salicylic acid foliar application on morphological characteristics and yield of safflower under drought stress.</b> Journal of Oil Plants Production, 1(2): 41-52.</p>
<p><b>52. Shahbazi Zadeh E, Movahhedi Dehnavi M, Balouchi H.</b> 2015. <b>Effects of foliar application of salicylic and ascorbic acids on some physiological characteristics of soybean (cv. Williams) under salt stress.</b> Journal of Oil Plants Production, 4(11): 13-22.</p>
<p><b>53. Kayednezami, R., and Balouchi, H.R.</b> 2014. <b>Physiological responses of Lentil (<i>Lentil culinaris</i> Medik) to salinity stress and foliar application salicylic acid.</b> Iranian Journal of Pulses Research, 5(2): 83-98.</p>
<p><b>54. Maleki Narg Mousa, M., Balouchi, H.R. and Attarzadeh, M.</b> 2015. <b>Effect of seed priming on some germination traits and seedling growth of safflower under drought stress.</b> Iranian Journal of Seed Research, 2(1): 1-9.</p>
<p><b>55. Balouchi, H.R., Kayednezami, R., and Bagheri, F.</b> 2015. <b>Effect of seed deterioration stress on germination and seedling growth indices in three cultivars of Safflower (<i>Carthamus tinctorius</i> L.).</b> Journal of Plant Production, 38(1): 27-40.</p>
<p><b>56. Mardani, F., and Balouchi, H.R.</b> 2015. <b>Effect of Intercropping on the yield and some quantitative and qualitative traits of Fenugreek and Anise.</b> Journal of Sustainable Agriculture and Production Science, 25 (2): 1-16.</p>
<p><b>57. Mardani, F., Balouchi, H.R., Yadavi, A., and Salehi, A.</b> 2015. <b>Yield, yield components, and weed control of Fenugreek (<i>Trigonella foenumgreacum</i> L.) and Anise (<i>Pimpinella anisum</i> L.) under Row Intercropping System.</b> Iranian Journal of Field Crops Research, 13 (3): 623-636.</p>
<p><b>58. Pasban, F., Balouchi, H.R., Yadavi, A., Salehi, A., and Attarzadeh, M.</b> 2015. <b>The role organic and biological fertilizers in qualitative and quantitative yield of Soybean (<i>Glycine</i></b></p>

<i>max</i> L.) cvWilliams. Journal of Sustainable Agriculture and Production Science, 25 (3): 137-149.
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61. Haghanian, S., Yadavi, A., Balouchi, H.R., and Moradi, A. 2016. <b>Grain, oil yield and nitrogen use efficiency in different varieties of sesame (<i>Sesamum indicum</i> L.) under nitrogen fertilizer and weed competition</b> . Journal of Sustainable Agriculture and Production Science, 26 (1): 67-81.
62- Baladi, S. and Balouchi, H.R. 2016. <b>Evaluation of <i>Lallemantia royleana</i> seed longevity under varying conditions of temperature and moisture content</b> . Seed Science and Technology, 44(2): 320-326.
63. Balouchi, H.R., Amini, F., Movahhedi Dehnavi M, and Attarzadeh, M. 2016. <b>Effect of Different Growing Organic Substrates on Growth and Yield Components of Pinto Bean (<i>Phaseolus vulgaris</i> L.) under Heavy Metals Stress</b> . Journal of Sustainable Agriculture and Production Science, 26 (2): 57-72.
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70. Nazarian, S., Yadavi, A., Movahhedi Dehnavi, M., and Balouchi, H. 2016. <b>Determination of Critical Period of Weed Control in Sunflower (<i>Helianthus annuus</i> cv. Sandra) in Mobarekeh Esfahan Region</b> . Iranian Journal of Weed Science, 12(1): 17-29.
71. Amini, F., Balouchi, H., Movahhedi Dehnavi, M., and Attarzadeh, M. 2016. <b>Effects of different concentrations of heavy metals application on germination indices and seed vigor of Pinto bean (<i>Phaseolus vulgaris</i> L.)</b> . 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. <b>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.</b> Iranian Journal of Crop Sciences. 19(1): 40-56.
74. <u>Balouchi, H.</u> and R. Ostadian Bidgoly. 2017. <b>Effect of Seed Deterioration on Physiological and Biochemical Traits of Oil Flax (<i>Linum usitatissimum</i> L. Norman var.) Seed.</b> Journal of Plant Production, 40(2):35-52.
75. Ostadian Bidgoly, R., <u>H. Balouchi,</u> E. Soltani, and A. Moradi. 2017. <b>Effect of temperature and water potential on seed germination characteristics in Safflower (<i>Carthamus tinctorius</i> L.) Sofeh var.</b> Iranian Journal of Seed Science and Technology, 6 (1): 11-22.
76. <u>Balouchi, H.R.,</u> Amini, F., Movahhedi Dehnavi M, and Attarzadeh, M. 2017. <b>Effect of different growing substrates on physiological and biochemical traits of bean (<i>Phaseolus vulgaris</i> L.) under heavy metals stress.</b> Journal of Plant Process and Function, 6 (21): 27-39.
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33. <u>Yadavi, A.R., M. Movahedi Dehnavi, <u>H.R. Balouchi.</u> 2009. <b>Effect of Salinity and Drought Stress on Seed Germination of Medicinal Plants (<i>Nigella sativa</i> and <i>Silybum marianum</i>).</b> Abstract Book of the 11<sup>th</sup> Iranian Soil Sciences Congress, Gorgan University, Iran.</u>
34. <u>Balouchi, H.R., A.R. Yadavi. 2010. <b>The Effect of Osmoprining and Hydropriming on Oat Seed Germination under Salinity Stress.</b> Proceeding of the 1<sup>th</sup> National Conference of Environmental Stresses in Agricultural Sciences. Birjand University, Iran.</u>
35. <u>Balouchi, H.R., A.R. Yadavi. 2010. <b>The Effect of Priming on Dill Seed Germination under Salinity Stress.</b> Proceeding of the 1<sup>th</sup> National Conference of Environmental Stresses in Agricultural Sciences. Birjand University, Iran.</u>
36. <u>Balouchi, H.R., A.R. Yadavi. 2010. <b>The Effect of Seed Priming on Cucurbit Germination and Seedling Vigor Improvement under Salinity Stress.</b> Proceeding of the 1<sup>th</sup> National Conference of Environmental Stresses in Agricultural Sciences. Birjand University, Iran.</u>
37. <u>Yadavi, A.R., <u>H.R. Balouchi.</u> 2010. <b>Effect of Priming and Salinity on Germination of <i>Cynara scolymus</i>.</b> Proceeding of the 1<sup>th</sup> National Conference of Environmental Stresses in Agricultural Sciences. Birjand University, Iran.</u>
38. <u>Yadavi, A.R., <u>H.R. Balouchi,</u> M. Movahedi Dehnavi, 2010. <b>Effect of Priming on Germination of Coriander under Salinity Stress.</b> Proceeding of the 1<sup>th</sup> National Conference of Environmental Stresses in Agricultural Sciences. Birjand University, Iran.</u>

39. Sajadinik, R., A. Yadavi, H.R. Balouchi, 2010. **Effect of Chemical, Organic and Biologic Fertilizers on Chlorophyll and Soluble Carbohydrates Rate of Sesame**. Abstract Book of the 11<sup>th</sup> Iranian Congress of Crop Sciences, Iranian Society of Crop Sciences, Tehran, Iran.
40. Sajadinik, R., A. Yadavi, H.R. Balouchi, 2010. **Effect of Nitrogen, Vermicompost and Nitroxin Bio Fertilizer on Yield and Yield Components of Sesame**. Abstract Book of the 11<sup>th</sup> Iranian Congress of Crop Sciences, Iranian Society of Crop Sciences, Tehran, Iran.
41. Mojab Ghasrodashti, A., H.R. Balouchi, A. Yadavi. 2010. **Effect of Municipal Solid Waste Compost and Nitrogen Fertilizer on Forage Yield and some Morphological Traits of Sweet Corn**. Abstract Book of the 11<sup>th</sup> Iranian Congress of Crop Sciences, Iranian Society of Crop Sciences, Tehran, Iran.
42. Mojab Ghasrodashti, A., H.R. Balouchi, A. Yadavi. 2010. **Effect of Municipal Solid Waste Compost and Nitrogen Fertilizer on Yield and Yield Components of Sweet Corn**. Abstract Book of the 11<sup>th</sup> Iranian Congress of Crop Sciences, Iranian Society of Crop Sciences, Tehran, Iran.
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44. Balouchi, H.R., A. Yadavi, 2010. **The Effect of KNO<sub>3</sub>, KH<sub>2</sub>PO<sub>4</sub>, Polyethylene Glycol and Distilled Water on Dill Seed Germination and vigour under Salinity Stress**. Abstract Book of the 11<sup>th</sup> Iranian Congress of Crop Sciences, Iranian Society of Crop Sciences, Tehran, Iran.
45. Balouchi H.R., 2010. **Screening Wheat Parents of Mapping Population for Heat and Drought Tolerance, Detection of Wheat Genetic Variation**. International Conference on Agricultural, Food and Animal Sciences, World Academy of Science, Engineering and Technology. Paris, France.
46. Modarres Sanavy\_S.A.M.and Balouchi, H.R., 2010. **UV Radiation, Elevated CO<sub>2</sub> and Water Stress Effect on Growth And Photosynthetic Characteristics in Durum Wheat**. Agro 2010, The XI<sup>th</sup> European Society for Agronomy Congress, Montpellier, France. P: 501-502.
47. Balouchi, H.R., 2011. **Internal Evaluation of Agronomy and Plant Breeding Department**. The 5<sup>th</sup> Conference of Quality Assessment in University System, Tehran University, P: 56.
48. Ahmadpoor Dehkordi, S., H.R. Balouchi, M. Movahedi Dehnavi, 2011. **Effect of different types and times of priming on black cumin seed (*Nigella sativa*) germination under salinity stress**. Proceeding of the 2nd Iranian National Conference of Plant Physiology. Yazd University, Iran.
49. Balouchi H.R., Bagheri F., Kayed Nezami R., Movahhedi Dehnavi M., Alireza Y., 2011. **Effect of seed aging on germination and seedling growth indices on three canola cultivars (*Brassica napus* L.)**, Proceedings of the 13th International Rapeseed Congress, Prague, Czech Republic.
50. Balouchi H., Behzadi B., Pouzesh Shirazi M., Alireza Y., Mazahery D. 2011. **Row spacing effect on some of the quantitative and qualitative characteristics of canola cultivars (*Brassica napus* L.) in Jiroft region**, Proceedings of the 13th International Rapeseed Congress, Prague, Czech Republic.
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- microelements fertilizers on some wheat dualistically characteristic under different ecology.** Abstract Book of the 12<sup>th</sup> Iranian Congress of Soil Sciences, Tabriz, Iran.
- 52. Sajadinik, R., A. Yadavi, Balouchi, H.R. Fatahinejad E. 2011. Evaluation of chemical and organic fertilizers used in Sesame on chemical soil characteristics.** Abstract Book of the 12<sup>th</sup> Iranian Congress of Soil Sciences, Tabriz, Iran.
- 53. Mojab Ghasrodashti, A., Balouchi, H.R., Yadavi. A. 2011. Effect of municipal solid waste compost and nitrogen interaction on forage quality of sweet corn.** Abstract Book of the 12<sup>th</sup> Iranian Congress of Soil Sciences, Tabriz, Iran.
- 54. Sajadinik, R., A. Yadavi, Balouchi, H.R. Fatahinejad E. 2011. Evaluation of different source of fertilizer effect on Sesame morphological traits.** Abstract Book of the 12<sup>th</sup> Iranian Congress of Soil Sciences, Tabriz, Iran.
- 55. A. Yadavi, Balouchi, H.R. Khoshro, A.. 2011. Evaluation of priming effect on *Silybum marianum* under drought stress.** Abstract Book of the 5<sup>th</sup> Research Founding Congress, Sanandaj, Iran.
- 56. Merajipur, M. Movahedi, M. Balouchi, H.R. 2011. Effect of Nitrogen and cycocel on safflower yield and yield components at different levels of plant density.** Abstract Book of the 5<sup>th</sup> Research Founding Congress, Sanandaj, Iran.
- 57. Balouchi, H.R. Saidipur, A.A. 2011. Evaluation of corn various levels of residues and nitrogen fertilizer on wheat.** Abstract Book of the 5<sup>th</sup> Research Founding Congress, Sanandaj, Iran.
- 58. Balouchi, H.R. Kayednezami, R. 2012. Effect of seed aging on germination and seedling growth indices on two Lens cultivars (*Lens culinaris Medik*).** Abstract Book of the 4<sup>th</sup> National Plus Congress, Arak, Iran.
- 59. H.R. Balouchi, A. Masoumiasl, M. Movahedi Dehnavi. 2012. Effect of washing, gibberellic acid and prechilling on seed germination and dormancy of Chavill (*Ferulago angulata L. Koohgol ecotype*).** Proceedings of National Congress on Medicinal Plants. P 98.
- 60. Yousefpur, Z., Maleki Mousavi Naraki, M., H.R. Balouchi. 2012. Effect of seed priming on some germination traits of purple coneflower (*Echinacea purpurea L.*) under drought stress.** Proceedings of National Congress on Medicinal Plants. P 113.
- 61. Mohsen Movahhedi Dehnavi, Alireza Yadavi, Hamidreza Balouchi. 2012. Effect of seed dormancy breaking treatments on germination and vigor of *Kelussia odoratissima*, *Bonium persicum*, *Echinacea purpurea* and *Cuminum cyminum*.** Proceedings of National Congress on Medicinal Plants. P 132.
- 62. Balali Dehkordi, F. and H.R. Balouchi. 2012. Effect of salinity stress on germination, growth parameters and essential oil of two spices of *satureja bachtiarica*, s. *khuzestanica*.** Proceedings of National Congress on Medicinal Plants. P 90.
- 63. Javadipour, Z., S. Gheisari, H.R. Balouchi. 2012. Effect of salinity and seed priming on purple coneflower (*Echinacea purpurea L.*) germination and seedling growth indices.** Proceedings of National Congress on Medicinal Plants. P 69.
- 64. Ahmadpoor Dehkordi, S., H.R. Balouchi, M. Movahedi Dehnavi. 2012. Determination of application time of different priming on medicinal plant, black cumin (*Nigella sativa*) germination under drought stress.** Proceedings of National Congress on Medicinal Plants. P

29.

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 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> 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 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> 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 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> 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 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> Iranian Seed Science and Technology Conference, Karaj, Iran.

70. Mardani, F., H.R. Balouchi, A. Yadavi, A. Salehi. 2014. **Evaluation of Fenugreek (*Trigonella foenum-graecum* L.) and Anise (*Pimpinella anisum* L.) Yield, Yield Components and Weed Control Potential in Intercropping Conditions.** The 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> 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 1<sup>st</sup> International and 13<sup>th</sup> Iranian Crop Sciences Congress and 3<sup>rd</sup> 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.
<b>77.</b> Alizadeh, M., <u>Balouchi, H.R.</u> , and Yadavi, A. 2015. <b>Seed priming effect on seedling characteristics of two sesame <i>Sesamum indicum</i> L. variety in salinity stress.</b> 2nd National Conference of Environmental Stresses on plants, Shahid Bahonar University, Kerman, Iran.
<b>78.</b> Ajribzadeh, Z., <u>Balouchi, H.</u> and Yadavi, A. 2015. <b>The effect of priming on the germination of anise affected by weeds allelopathic Wild Oat, Cowherb, Plantain, Cheatgrass and Hairy vetch.</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>79.</b> Ostadian Bidgoly, R., and <u>Balouchi, H.</u> 2015. <b>Germination index and some antioxidant enzymes in oil flax (<i>Linum usitatissimum</i> L.) during storage at different temperature and seed moisture.</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>80.</b> Rezai, A., <u>Balouchi, H.</u> , Movahhedi Dehnavi, M., and Adhami, I. 2015. <b>The effect of different priming on some physiological traits of sorghum (<i>Sorghum bicolor</i> L.) genotype SOR834 under toxicity of chloride and nitrate cadmium.</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>81.</b> Sohrabiani, S., Moradi, A., Salehi, A., and <u>Balouchi, H.</u> 2015. <b>Effect of Hydropriming, Halopriming and Hormonal priming on germination and some physiological traits of cumin seed (<i>Cuminum cyminum</i> L.)</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>82.</b> Mehrabi Kooshki, M., Moradi, A., <u>Balouchi, H.</u> , and Amiri Fahlani, R. 2015. <b>Studying the change of some physiological traits in faba bean seeds (<i>Vicia faba</i> L.) under different storage conditions.</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>83.</b> Soltani, M., Moradi, A., Tavakkol Afshari, R., and <u>Balouchi, H.</u> 2015. <b>Investigation of some biochemical changes of aged castor bean (<i>Ricinus communis</i> L.) seeds under different storage conditions</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>84.</b> Soltani, M., Moradi, A., Tavakkol Afshari, R., and <u>Balouchi, H.</u> 2015. <b>The effect of different storage conditions on germination and seed vigor index of castor bean (<i>Ricinus communis</i> L.) seeds</b> 4th Iranian conference of Plant Physiology, Tarbiat Modares University, Tehran, Iran.
<b>85.</b> <u>Balouchi, H.</u> , Pasban, F., Yadavi, A., and Salehi, A. 2016. <b>Effect of organic and biological fertilizers on yield and yield components of soybean (<i>Glycine max</i> L.) cv. Williams.</b> Challenges in Building a Sustainable Biobased Economy (ECO-BIO) Conference, 6-9 March 2016, Elsevier Ltd, Postillion Convention Centre WTC Rotterdam, Netherlands.
<b>86.</b> Piri R., Moradi A., Salehi A., and <u>Balouchi H.</u> 2016. <b>The effect of seed bio-priming with pseudomonas fluorescent on germination and seedling indices of cumin (<i>Cuminum cyminum</i> L.).</b> 5th National Congress on Medicinal Plants. 18, 19 May 2016, Isfahan- Iran.
<b>87.</b> <u>Balouchi, H.</u> , Baladi, S., Moradi, A., and Movahhedi Dehnavi, M. 2016. <b>Assessment of the longevity and viability coefficient in two genotypes of flax seed oil under different storage conditions.</b> 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.
<b>88.</b> Dehghan, M., <u>Balouchi, H.</u> , Yadavi, A., and Safikhani, F. 2016. <b>Effects of brassinosteroid and drought stress in maternal plant on some quality traits in SIRVAN cultivar wheat</b>

**seed.** 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.

89. Dehghan, M., Balouchi, H., 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 Balouchi, H. 2016. **Germination response of pretreated seeds of cumin (*Cuminum cyminum* 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., Balouchi, H., and Amiri Fahlani, R. 2016. **Effect of storage temperature and seed moisture content on germination quality of faba bean (*Vicia faba*).** 2nd International & 14th National Iranian Crop Science Congress, 30 Aug- 1 Sep. Rasht, Guilan University, Iran.

92. Yadavi, A., Haghanian, S., Balouchi, H., Moradi, A., and Maghsoudi, E. 2016. **The effect of different amount of nitrogen fertilizer on morphological and agronomic traits of different cultivars of sesame (*Sesamum indicum* 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., Balouchi, H., Moradi, A., and Maghsoudi, E. 2016. **Investigate the effect of nitrogen on yield and yield components of sesame cultivars (*Sesamum indicum* 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., Balouchi, H., 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., Balouchi, H., and Baziar, M.R. 2016. **Effects of paclobutrazol pretreatment on cold tolerance induction in soybean seedling (*Glycine max* L.).** 3rd International Conference on Sustainable Agriculture and Environment, September 26-28, 2016, Warsaw, Poland

96. Piri, R., Moradi, A., Salehi, A., and Balouchi, H. 2017. **Effect of seed coating on some germination and seedling indices of cumin (*Cuminum cyminum* L.).** 6<sup>th</sup> National Congress on Medicinal Plants. 9-10th May. Tehran, Iran.

97. Teimori, H., and Balouchi, H. 2018. **The effect of accelerated aging on germination Fenugreek (*Trigonella foenum-graecum*).** 4<sup>th</sup> National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.

98. Teimori, H., Tarfan, S., and Balouchi, H. 2018. **Effect of Salicylic Acid on Niger Seed (*Guizotia abyssinica*) Germination under Salt Stress Conditions.** 4<sup>th</sup> National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.

99. Hoseinipour, A., Yadavi, A., and Balouchi, H. 2018. **Modeling of *Sesamum Indicum* Seed Germination under Drought Stress in Two Temperatures through the Hydrotime Analysis.** 4<sup>th</sup> National Seed Science and Technology Conference of Iran. 13-15th Feb. Karaj, Iran.

100. Dehghan, M., Balouchi, H., Yadavi, A., and Zare, E. 2018. **Investigate the effect of nitrogen on yield and yield components of sesame cultivars (*Sesamum indicum* L.) under weeds competition.** 15th National Iranian Crop Science Congress, 4-6 Sep. Karaj, Iran.

101. Hajizadeh, Z., Balouchi, H., Salehi, A., and Moradi, A., Rezaei, R. 2022. **Improving of germination indices of *Chenopodium quinoa* cultivar Titicaca by seed biopriming with *Bacillus subtilis* under cadmium stress.** 3<sup>rd</sup> International and 17<sup>th</sup> National Iranian Crop Science Congress, Kerman, 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.)