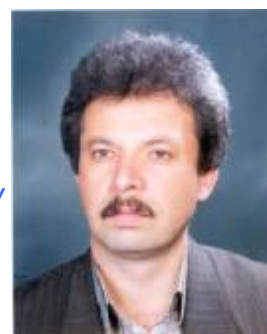


In the Name of God



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I. Personal Information:

Name: Ahmad

Family Name: Moieni

Date of Birth: 1960

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II. Educational Records:

Degree	Institution	Place	Field	Date
B.Sc.	Univ. of Tehran	Iran	Agronomy & Plant Breeding	1985
M.Sc.	INP-ENSAT	France	Plant Breeding	1992, 1993
Ph.D.	INP-ENSAT	France	Plant Biology	1997

III. Academic Experiences:

- 1) Head of Department of Plant Breeding and Biotechnology, Faculty of Agriculture, Tarbiat Modares Univ., Tehran, Iran (1998-2000 & 2002-2004)
- 2) Associate professor, Department of Plant Breeding and Biotechnology, Faculty of Agriculture, Tarbiat Modares Univ., Tehran, Iran (Oct 2005 – continued)
- 3) Assistant professor, Department of Plant Breeding and Biotechnology, Faculty of Agriculture, Tarbiat Modares Univ., Tehran, Iran (Mar 1997 – Sep 2005)
- 4) Member of Doctoral Thesis Examination Committee at the Faculty of Agriculture, Tarbiat Modares Univ.
- 5) Member of Doctoral Comprehensive Examination Committee at the Faculty of Agriculture, Tarbiat Modares Univ.

- 6) Member of M.Sc. Thesis Examination Committee at the Faculty of Agriculture, Tarbiat Modares Univ.
- 7) Member of Research Committee at the Faculty of Agriculture, Tarbiat Modares Univ.
- 8) Establishment of Plant cell, Tissue and Organ Culture Laboratory in the Faculty of Agriculture, Tarbiat Modares Univ.
- 9) Establishment of 5 *in vitro* and *in vivo* controlled plant growth rooms in the Faculty of Agriculture, Tarbiat Modares Univ.
- 10) Representative of Post-Graduate Study at the Faculty of Agriculture, Tarbiat Modares Univ.

IV. Membership of Editorial Board of Journals:

- Iranian Journal of Genetics and Plant Breeding
- Journal of Crop Biotechnology (In Farsi)
- **Journal of Applied Crop Breeding** (In Farsi)

V. Membership of Scientific Societies:

- 1) Iranian Society of Crop Production and Breeding (I.S.C.P.B.)
- 2) Iranian National Society of Biotechnology

VI. Research Interests:

- 1) Plant haploid production by anther culture and isolated microspore culture
- 2) Secondary metabolite production in hairy roots and cell suspension
- 3) Micropropagation
- 4) Gene transfer in plant haploid material

XII. Courses Taught:

- 1) Plant cell, tissue and organ culture, Course, M.Sc., Tarbiat Modares Univ., Iran
- 2) Advanced plant breeding (Part 1), Course, M.Sc., Tarbiat Modares Univ., Iran
- 3) New subjects in plant breeding, M.Sc., Tarbiat Modares Univ., Iran

VII. Publications and Journal Papers:

Books:

Abdollahi, Mohammad Reza & Moieni, Ahmad (2011) Rapeseed Androgenic haploids: Production and genetics Transformation. LAP, LAMBERT, Academic Publishing, Germany.

Papers:

- 1) Abdollahi M., **Moieni A.** & Jalali M (2004) Interactive effects of heat shock and culture density on the embryo induction in isolated microspore culture of *Brassica napus* L. cv. Global. **Iranian Journal of Biotechnology** 2(2):97-100.
- 2) Abdollahi M.R., **Moieni A.** Mousavi A., Salmanian **A.H.**, Jalali Javaran M. & Majdi M. (2007) Effect of integrated bombardment and *Agrobacterium* transformation system on transient GUS expression in hypocotyls of rapeseed (*Brassica napus* L. cv. PF.704) microspore-derived embryos. **Pakistan Journal of Biological sciences** 10(18):3141-3145.
- 3) Abdollahi M.R., **Moieni A.** Mousavi A. & Salmanian **A.H** (2010) High frequency production of rape seed transgenic plants via combination of microprojectile bombardment and secondary embryogenesis of microspore-derived embryos. Mol.Biol. Rep.
- 4) Abdollahi M.R., Moieni A. Mousavi A., Salmanian A.H. (2009) Secondary embryogenesis and transient expression of the β -glucuronidase gene in hypocotyls of rapeseed microspore-derived embryos . *Biologia Plantarum* 53 (3): 573-577.
- 5) Abdollahi M.R., Corral-Martínez **P.**, Mousavi A., Salmanian **A.H.**, Moieni **A.**. Seguí-Simarro J. M (2009) An efficient method for transformation of pre-androgenic, isolated *Brassica napus* microspores involving microprojectile bombardment and *Agrobacterium*-mediated transformation .*Acta Physiol. Plant* 31: 1313-1317.
- 6) Abdollahi M.R., Ghazanfari P., Corral-Martínez **P.**, , Moieni **A.**. Seguí-Simarro J. M (2012) Enhancing secondary embryogenesis in *Brassica napus* by selecting hypocotyls-derived embryos and using plant-derived smoke extract in culture medium. *Plant Cell Tiss Organ Cult.*
- 7) Abdoli M., **Moieni A.** & Dehghani H. (2003) Effects of genotype and cotyledon section on organogenesis in sunflower. **Iranian Journal of Biotechnology** 1(4):234-238.
- 8) Abdoli M., **Moieni A.** & Dehghani H. (2007) Effects of cultivar and agar concentration on *in vitro* shoot organogenesis and hyperhydricity in sunflower (*Helianthus annuus* L.). **Pak. J. Bot.**, 39(1);31-35.
- 9) Abdoli M., Moieni A. & Naghdi Badi H. (2013) Influence of KNO₃, CaCl₂ and MgSO₄ concentrations on growth and cichoric acid accumulation in hairy root culture of purple coneflower (*Echinacea purpurea* L.). *Journal of Medicinal Plants*, 12 (45): 75-84.

- 10) Abdoli M., Moieni A. & Naghdi Badi H. (2013) Morphological, Physiological, Cytological and Phytochemical Studies in Diploid and Colchicine-induced Tetraploid Plants of *Echinacea purpurea* (L.). *Acta Physiol Plant* 35:2075-2083.
- 11) Asgari M., Jalali Javaran M, Moieni A., Masoumiasl A. (2013) The human tissue-plasminogen activator gene was transformed to cucumber cells. *Minerva Biotechnologica*, 25 (2):75-80.
- 12) Azadi P., **Moieni A.** & Ahmadi M.R. (2002) Shoot organogenesis from cotyledons of sunflower. *HELIA* 25(37):19-26.
- 13) Bagheri KH., Jalali Javaran M., Mahboudi F., Moieni A. , Zebarjedi R. (2010) Expression of human interferon gamma in brassica napus seeds. *African Journal of Biotechnology*. 9 (32):5066-5072.
- 14) Bayati Sh., Shams-Bakhsh M. & Moieni A. (2011) Elimination of grapevine a (GVA) by cryotherapy and electrotherapy. *J. Agr. Tech.*,13:450-443.
- 15) Dolatabadi H.K., Goltapeh E.M., Moieni A.& Varma A. (2012) Evaluation of different densities of auxin and endophytic fungi (*Piriformospora indica* and *Sebacina vermifera*) on *Mentha piperita* and *Thymus vulgaris* growth. *African Journal of Biotechnology*,11(7) pp:1644-1650.
- 16) Dolatabadi H.K., Goltapeh E.M., Moieni A., Jaimand K., Sardrood B.P. & Varma A. (2012) Effect of *Piriformospora indica* and *Sebacina vermifera* on plant growth and essential oil yield in *Thymus vulgaris* in vitro and in vivo experiments, *Symbiosis* 53(1) pp:29-35.
- 17) Ekhveh MJ, Moieni A. and Jalali Javaran M. (2013) The evaluation of response to isolated microspore culture in some Iranian hexaploid wheat (*Triticum aestivum* L.) cultivars. *Journal of Agricultural Science*, 5(7):206-216.
- 18) Gharanjik Sh., Moieni Ahmad, Mousavi Amir and Alizadeh H.(2008) Optimization of transient expression of uidA gene in androgenic embryos of wheat (*Triticum aestivum* L. cv. Falat) via particle bombardment. ***Iranian Journal of Biotechnology*** 6(4):207-213.
- 19) Ghazanfari P., Abdollahi M.R.; Moieni A.& Moosavi S.S. (2012) Effect of plant-derived smoke extract on in vitro plantlet regeneration from rapeseed (*Brassica napus* L. cv. Topas) microspore-derived embryos. *International Journal of Plant Production*. 6(3): 309-324.
- 20) Haddadi P., **Moieni A.**, Karimzadeh Gh and Abdollahi M.R (2008) Effects of Gibberellin, Abscisic Acid and Embryo Desiccation on Normal Plantlet Regeneration, Secondary Embryogenesis and Callogenesis in Microspore Culture of *Brassica napus* L. cv.PF704", ***International Journal of Plant Production*** 2(2): 153-162.
- 21) Javadian, N., **Karimzadeh, G.**, Sharifi, M. and Moieni, A. (2014). *In vitro* regeneration in *Linum album* Kotschy Ex Boiss. *Journal of Plant Researches* (Accepted)

- 22) Kahrizi D., Salmanian AH., Afshari A., **Moieni A.** & Mousavi A. (2007) Simultaneous substitution of Gly96 to Ala and Ala183 to Thr in 5-enolpyruvylshikimate-3-phosphate synthetase gene of *E.coli*(k12) and transformation of rapeseed (*Brassica napus* L.) in order to make tolerance to glyphosate. **Plant Cell Reports** 26: 95-104.
- 23) Kashani K., Javaran M.J., Mohebodini M, Moieni A.,& Abadi M.S.D. (2012) Regeneration and agrobacterium-mediated transformation of three potato cultivars (*Solanum tuberosum* cv. Desiree, Agria and Marfona) by human proinsulin gene. *Australian Journal of Crop Science*. pp.1212-1220.
- 24) Lokos-toth K. ; **A. Moieni** & A. Sarrafi (1999) Nehany androgenetikus parameter genetikai vizsgalata buza (*Triticum aestivum* L) vonalak diallel keresztezesi kiserleteben. **Novenytermeles**, Tom 48, No.1, pp : 1-12.
- 25) Mahmoudi Noodezh H., **Moieni A.** & Baghizadeh A. (2012) *In vitro* propagation of the Damask rose (*Rosa damascena* Mill.). *In vitro* propagation of the damask rose (*Rosa damascena* Mill.). *In vitro Cellular & Developmental Biology-Plant*.
- 26) Mirzaee M., Moieni A. & Ghanati A. (2013) Effects of drought stress on the lipid peroxidation and antioxidant enzyme activities in two canola (*Brassica napus* L.) cultivars. *Journal of Agricultural Science and Technology*, 15 (3): 593-602 .
- 27) **Moieni A.** & Sarrafi A. (1998) Haploid regeneration by anther culture and its relationship to agronomic traits in the parents and progeny pure lines of a composite cross of hexaploid wheat. **Cereal Research Communications**, vol. 26 No. 2, pp: 127-135.
- 28) **Moieni A.** & Sarrafi A. (1997) Potential use of doubled haploid lines for the screening of resistance to yellow rust (*Puccinia striiformis*) in hexaploid wheat. **Plant Breeding** 116: 595-597.
- 29) **Moieni A.** & Sarrafi A. (1997) Genetic improvement of androgenetic haploid formation in hexaploid wheat. **Cereal Research Communications**, vol. 25 No1, pp: 15-20.
- 30) **Moieni A. K. lokos-toth & Sarrafi A.** (1997) Evidence for genetic control and media effect on haploid regeneration in the anther culture of hexaploid wheat (*Triticum aestivum* L), **Plant Breeding** 116: 502-504
- 31) **Moieni A.** & Sarrafi A. (1996) The effects of gibberelic acid, phenylethylamine 2,4-D and genotype on androgenesis in hexaploid wheat (*Triticum aestivum* L), **Cereal Research Communications**, vol. 24 No 2, pp: 139-145.
- 32) **Moieni A.** & Sarrafi A. (1996) Effects of donor plant genotype and media composition on androgenesis of Iranian spring wheat genotypes and F1 hybrids. **Journal of genetics and Breeding**, vol. 50. pp: 383-386.
- 33) **Moieni A.** & Sarrafi A. (1995) Genetic analysis for haploid regeneration responses of hexaploid-wheat anther culture. **Plant Breeding** 114: 247-249.

- 34) Molsaghi M., Moieni & Kahrizi D. (2014) Efficient protocol for rapid Aloe vera micropropagation. *Pharmaceutical biology*,
- 35) Mortazavi, M.H. Arzani, K. & **Moieni, A.** (2010) Optimizing Storage and In vitro Germination of Date Palm (*Phoenix dactylifera*) Pollen. *JAST*, 12:181-189.
- 36) Nazary Moghaddam Aghaye R., Yadollahi A., **Moieni, A.** & Sepahvand S. (2013) In vitro culture of Gisela 6 Semi-dwarf rootstock. *J. Biol. Environ. Sci.* 7(20):57-64.
- 37) Pourmohammadi P., **Moieni A.** & Jalali –Javaran M. (2007) Colchicine induced embryogenesis and doubled haploid production in maize (*Zea mays* L.) anther culture. **Iranian Journal of Biotechnology** 5(3)140-146.
- 38) Pourmohammadi P., **Moieni A.**, Ebrahimi A. & Javidfar F (2011) Doubled haploid plants following colchicines treatment of microspore-derived embryos of oilseed rape (*Brassica napus* L.). *Plant Cell Tiss Organ Cult.*, 108(2):251-256.
- 39) Pourmohammadi P., **Moieni A.**, Hiraga S. & Komatsu S. (2012) Organ-specific proteomic analysis of drought-stressed soybean seedlings. *Journal of Proteomics*, 75:1906-1923.
- 40) Pourmohammadi P., **Moieni A.**, Komatsu S. (2012) Comparative proteome analysis of drought-sensitive and drought-tolerant rapeseed roots and their hybrid F1 line under drought stress. *Amino acids*, 43(5):2137-2152.
- 41) Raouf Fard F., Moieni A. & Omidbaigi R (2008) Effects of different concentrations of α -naphthaleneacetic acid and 6-benzylaminopurine on shoot regeneration of *Vinca minor* L. *J. Agric. Sci. Technol.* 10: 337-344
- 42) Sarrafi A., A. Mentewab, **A. Moieni** & G. Alibert (1999) Transformation genetique chez le ble. **Notes de l'ASEDIS-SO**, No. 21, pp: 36-47.
- 43) Shahvali R., Moieni A. & Baghizadeh A. (2013) Positive effects of cold pretreatment, iron source, and silver nitrate on anther culture of strawberry (*Fragaria × ananassa* Duch.). *Plant Biotechnol Rep*, (): .
- 44) Shirdelmoghanloo H., Moieni A. & Mousavi A. (2009) Effect of embryo induction media and pretreatments in isolated microspore culture of hexaploid wheat (*Triticum aestivum* L. cv. Falat). *African Journal of Biotechnology* 8 (22): 6134-6140.
- 45) Zebarjadi A., Jalali Javaran M., Karimzadeh GH., **Moieni A.**, Mousavi A. & Salmanian AH. (2006) Transformation of rapeseed (*Brassica napus* L.) plants with sense and antisense constructs of the fatty acid elongase gene. **Iranian Journal of Biotechnology** 4(2)79-86.
- 46) Yadollahi A, Abdollahi MR, Moieni A & Danaee M (2011) Effects of carbon source, polyethylene glycol and abscisic acid on secondary embryo induction and maturation in rapeseed (*Brassica napus* L.) microspore-derived embryos. *Acta Physiol Plant* (33):1905-1912.

IX. Papers Presented in Conferences:

- 1) Abdollahi M.R., **Moieni A.** Mousavi A., Salmanian **A.H.** (2008) Effect of integrated microprojectile bombardment and secondary embryogenesis for generating doubled haploid transgenic plants in rapeseed (*Brassica napus* L). Paris, France
- 2) Bagheri Kh., Jalali Javaran M., Mahboudi F., **Moieni A.** & Zebarjadi A. (2007) Transformation of *Brassica napus* with construct of fusion gene (oleosin-gamma interferon). The 6th Asian Crop Science Association Conference & The 2th international Conference on Rice for the Future. 5-9 November, Bangkok, Thailand.
- 3) Ebadi A, **Moieni A** & Bozorgipour R (2001) The response of anther culture in several genotypes of Iranian spring wheat (*Triticum aestivum*), The second international Iran & Russia conference “ Agriculture and Natural Resources”, Moscow, Russia.
- 4) **Hadi N., Moieni A & Omidbaigi R.**(2011) Responses of zygotic embryos of galbanum in in vitro conditions. 59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. Turkey.
- 5) Mansouri N., **Moieni A.** & Khosroshahli M. (2007) Improvement in normal plant regeneration from microspore-derived embryos in *Brassica napus* L. The 6th Asian Crop Science Association Conference & The 2th international Conference on Rice for the Future. 5-9 November, Bangkok, Thailand.
- 6) **MOIENI A.** & SARRAFI A. (1994) Role du genom “D” dans la regeneration haploide du croisement “ ble × mais “. Quel avenir pour l’amelioration des plantes ? Ed.AUPELF-UREF.John Libbey Eurotext. , Paris, pp : 331-336
- 7) **Moieni A,** Azadi P. & Ahmadi MR (2001) Plant regeneration from cotyledons of sunflower, The second international Iran & Russia conference “ Agriculture and Natural Resources”, Moscow, Russia
- 8) Mortazavi, M.H. Arzani, K.& **Moieni, A.** (2006) The effects of some chemicals on in vitro pollen germination of three male date cultivars, 27th international horticultural congress 7 exhibition, Seoul, Korea.
- 9) Mortazavi, M.H. Arzani, K.& **Moieni, A.** (2006) The effects of strage conditions on pollen viabilty of three male date (*Phoenix dactylifera* L.) cultivars, 27th international horticultural congress 7 exhibition, Seoul, Korea.
- 10) Rouzban MR, Arzani K & **Moieni A** (2001) Plant regeneration via lateral buds of Asian pear under in vitro conditions. The second international Iran & Russia conference “ Agriculture and Natural Resources”, Moscow, Russia.
- 11) Saharkhiz M.J, Omidbaigi, R and Moeini A. (2007).Determination of genomic DNA of feverfew (*Tanacetum parthenium* L.) in diploid and tetraploid situations. Proceedings of 5 the 5 th Iranian Horticultural Sciences Congress.3-6 Sep. Shiraz University, Shiraz, Iran

- 12) Sepahpour Sh., Moieni A., Baghizadeh A. & Shamsbakhsh M. (2008) The effects of electric current value and time treatments on *in vitro* plant growth and regeneration of carnation (*Dianthus caryophyllus*). Sixth International Symposium on *in vitro* Culture and Horticultural Breeding, 24-28 August, Brisbane, Queensland, Australia.
- 13) Sepahpour Sh., Moieni A., Baghizadeh A. & Shamsbakhsh M. (2009) Effects of electric current value and time treatments on *elimination* of carnation motle virus and *in vitro* plantlet regeneration of carnation (*Dianthus caryophyllus*). Acta Hort.,829: 395-398.
- 14) Pourmohammadi P., **Moieni** A. & Komatsu S.(2011) Proteomic analysis of leaf, hypocotyls and root in soybeen seedlings under drought-stresse. 3rd international symposium on frontiers in agriculture Proteome research, 8-12 Nov, Takezono, Japan

X. Research Students Supervised:

M.Sc. Students:

- 1) Ebadi, A.A., Genetic analysis for haploid regeneration responses of hexaploid wheat (*Triticum aestivum* L.) anther culture, 1999.
- 2) Kahrizi, D.: Effect of donor plant genotype and media composition on androgenesis (anther culture) of hexaploid wheat (*Triticum aestivum* L.), 1999.
- 3) Bagheri H., Study of response to isolated microspore culture in some rapeseed (*Brassica napus* L.) genotypes, 2000.
- 4) Abedini E., Study of androgenesis in barley, 2001.
- 5) Azadi P., Plant regeneration from cotyledons of sunflower (*Helianthus annuus* L.) via direct organogenesis, 2001.
- 6) Abdollahi M., Effect of some factors on embryo induction and plant regeneration in isolated microspore culture of rapeseed (*Brassica napus* L.), 2002.
- 7) Mohammadi M., Study on resistance to yellow rust (*Puccinia striiformis*) in hexaploid wheat (*Triticum aestivum* L.) doubled haploid lines and in their donor plants, 2002.
- 8) Khonji, Y. : Study on Androgenesis in some Rapeseed (*Brassica napus* L.) and Hexaploid wheat (*Triticum aestivum* L.) cultivars, 2002.
- 9) Abdoli M., Study on some factors affecting plant regeneration of mature sunflower (*Helianthus annuus* L.) cotyledons, 2003.
- 10) Ekhvah, MJ: Response to microspore culture in some spring wheat cultivars, 2008.
- 11) Jahanipour P., Optimization of plantlet regeneration in isolated microspore culture of rapeseed (*Brassica napus* L.), 2004.
- 12) Sharifi P., Optimization of embryogenesis and plant regeneration in isolated microspore culture of rapeseed (*Brassica napus* L.), 2004.

- 13) Haddadi P., Effects of Gibberellin, Abscisic Acid and Embryo Desiccation and type of container on plant regeneration in isolated microspore culture of rapeseed (*Brassica napus* L.), 2005.
- 14) Shirdelmoghanloo H., Effects of genotype, growth conditions of donor plants, pretreatment and embryo induction media in isolated microspore culture of wheat (*Triticum aestivum* L.), 2007.
- 15) Rahpeima S., Study of anther culture in rose (*Rosa hybrida* and *Rosa miniatures*), 2007.
- 16) Sepahpoor, Sh., Comparison of methods to eliminate Carnation Mottle Virys (CarMV) from *Dianthus caryophyllus*, 2008.
- 17) Mahmoudi Noodezh, Haleh: *In vitro* optimization of shoot proliferation and rooting in Damask Rose (*Rosa damascena* Mill.), Dec. 2008.
- 18) Maleki Choreh, J.: Study on anther culture in some cultivars of strawberry (*Fragaria* × *ananassa* Duch.), 2009.
- 19) Naghsh M., Study on strawberry (*Fragaria* × *ananassa* Duch. cvs. Pajaro and Paros) meristem culture in runners and in vitro plantlets, 2009.
- 20) Mirzaee, M., Effect of drought stress on germination and seedling growth in some canola (*Brassica napus* L.) cultivars, 2010.
- 21) Shahvali Kohshoor, R., Study on the effects of cold pretreatment, silver nitrate and amino acids on strawberry (*Fragaria* × *ananassa* Duch.) anther culture, 2011.
- 22) Jafari, R., Investigation of in vitro shoot proliferation and rooting in lisianthus plant (*Eustoma grandiflora*), 2011.
- 23) Mahdavi Mashaki, K.: Effect of medium composition on anther culture in *Rosa damascena* Mill. And Rose (cultivar Sanaz), 2011.
- 24) Kiani, d.: Effects of pretreatments on anther culture in *Rosa damascena* Mill. and *Rosa hybrida*, 2011.
- 25) Molsaghi, M.: Study of micropropagation and autopoloidy in *Aloe vera* (*Aloe barbadensis*), 2011.
- 26) Bordbar L., *In vitro* improvement of shoot proliferation in Damask Rose (*Rosa damascena* Mill.),
- 27) Hesabi H., *In vitro* optimization of shoot proliferation in Damask Rose (*Rosa damascena* Mill.), 2011.
- 28) Rahimian N., Evaluation of yield and efficiency of virus elimination methods in the early generations (V₀ and V₁) of the produced virus-free plant in two commercial potato (*Solanum tuberosum* L.) cultivars, 2013.
- 29) Tabatabaie poor, Z., Cryopreservation of rice (*Oryza sativa* L.) zygotic embryos, 2014.
- 30) Moghaddam, F., Investigation of elicitation in suspension cell culture of yew (*Taxus baccata*),

Ph.D. Students:

- 1) Abdollahi M., Applications of androgenetic haploids in production of transgenic rapeseed (*Brassica napus* L.) plant, 2008.
- 2) Mirzaie Asl, A., Transformation of herbicide glyphosate resistant gene into sugar beet and molecular analysis of transgenic plants, 2009.
- 3) Movahedi, Z, Assessment of effect of cultivar and environmental factors on in vitro potato plantlets on minituber production in aeroponic condition, 2012.
- 4) Pourmohammadi P., Identification of molecular markers and proteins link to drought stress tolerance in doubled haploid lines of rapeseed (*Brassica napus* L.), 2012.

XI. Research Students Co-Supervised:

- 1) Tehrani, S.: Study of secondary embryogenesis in rapeseed (*Brassica napus* L.) microspore-derived embryos, 2008.

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