

## Curriculum Vitae

### **Personal Information:**

**First name:** Mohsen

**Last name:** Sharifi

**Date of birth:** August 10 1968

**Place of Birth:** Ilam-Iran

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### **Education:**

Ph. D. in Plant Physiology, Tarbiat Moalem University, Tehran, Iran, 2004.

Thesis title: Effect of endomycorrhizal fungi on soybean tolerance under salinity.

M. Sc. in Plant Sciences (Physiology), University of Tehran, Iran, 1996.

Thesis title: Comparative study on essential oils in seed and tissue culture of *Cuminium cyminum* and *Bunium persicum*.

B. Sc. in Biology, Razi University, Kermanshah-Iran 1992

### **Research interest:**

Molecular biology of plant secondary metabolites (Metabolomics, Gene expression).

Plant enzymology and protein (Extraction, Purification, Proteomics)

Plant cell, tissue and organ culture

### **Technical experiences:**

Plant Chemical & Biochemical Analysis Methods (Chemical Extraction, TLC, GC, HPLC, Electrophoresis)

Plant Cell, Tissue and Organ Culture Methods

Plant enzyme assays.

Plant Molecular Techniques (DNA & RNA extraction, RT-PCR, Gene Cloning)

### **Papers:**

1. Ghorbanli M., Ebrahimzadeh H., Sharifi M. **Effects of NaCl and mycorrhizal fungi on antioxidative enzymes in soybean.** *Biologia Plantarum* **48(4): 575-581, 2004.**
2. Sharifi M., Pouresmael M. **Breaking seed dormancy in *Bunium persicum* by stratification and chemical substances.** *Asian Journal of Plant Sciences, 5(4): 695-699 2006.*
3. Sharifi M., Ghorbanli M., Ebrahimzadeh H. **Improved growth of salinity-stressed soybean after inoculation with salt pre-treated mycorrhizal fungi.** *Journal of Plant Physiology, 164: 1144-1151 2007.*
4. Ebrahimzadeh H., Sharifi M. **Comparative study on essential oils in seed and tissue culture of *Cuminium cyminum* and *Bunium persicum*.** *Iranian Journal of Biology, 5(3-4): 154-168 1997.*
5. Sharifi M., Pouresmael M. **Effect of some chemical compounds on Bunium seed dormancy breaking and germination.** *Journal of Agriculture and Natural Resource Sciences of Gorgan University, 10(2): 33-41 2003.*
6. Pouresmael M., Sharifi M. **Effect of cold and cytokinins treatments on dormancy breaking of *Bunium persicum* seeds,** *Iranian Medicinal and Aromatic Plant Research, 19(2): 183-193 2003.*

7. Sharifi M., Ghorbanli M., Barati M. **Study of soil and biological parameters in rhizosphere of Pinus and of Chitgar and Taleghani parks in Tehran**, Iranian Journal of Biology, 20(1) 42-49 2007.
8. Noori A., Kalantari M., Sharifi M. **Study of mycorrhizal plants in Kerman province**, Journal of Environmental Sciences, 6(2): 2008.
9. Naghdi Badi H., Soroshzadeh A., Rezazadeh Sh., Sharifi M., Ghalavand A., Omidi H. **Review on Borage (Valuable Medicinal Plant and Richest Plant Source of Gamma Linolenic Acid)**, Journal of Medicinal Plants, 6 (24): 1-16 2007.
10. Naghdi Badi H., Soroshzadeh A., Rezazadeh Sh., Sharifi M., Ghalavand A., Rezai A. **Evaluation of phytochemical and production potential of Borage (*Borago officinalis* L.) during the growth cycle**, Journal of Medicinal Plants, 7(4): 37-43 2008. (In English)
11. Dolatabadian A., Modarres-Sanavy S.A.M., Sharifi M. **Effect of salicylic acid and salt on wheat seed germination**. Acta Agriculturae Scandinavica Section B- Soil and Plant Science, 59: 456-464 2009.
12. Dolatabadian A., Modarres-Sanavy S.A.M., Sharifi M. **Effect of Water Deficit Stress and Foliar Application of Ascorbic acid on Antioxidants Enzymes Activity and Some Biochemical's Changes in Leaves of Grain Corn (*Zea maize* L.)**. Iranian Journal of Biology, 22(3): 407-22 2009.
13. Noori A.S., Kalantari-Manochehri K., Sharifi M., Tahernezhad A., Mirtajadini S.M. **Study on copper and zinc content in soil and root of Mycorrhizal plants in some areas in Kerman province**. Iranian Journal of Biology, 22(2): 237-248 2009.

- 14.** Dolatabadian A., Modarres-Sanavy S.A.M., Sharifi M. **Alleviation of Water Deficit Stress Effects by Foliar Application of Ascorbic acid on *Zea mays* L.** Journal of Agronomy and Crop Science, 195: 347-355 2009.
- 15.** Tahsili J., Sharifi M., Behmanesh M., Ziae M. **Gene expression of Eugenol -O- methyl transferase and components of essential oils in (*Ocimum basilicum* L.) at different stages of growth.** Iranian Journal of Biology, 23(1): 18-25 2010.
- 16.** Soltani F., Sharifi M., Khajeh Kh. Yousefzadi M. **Study of essential oil composition, menthone reductase activity and antimicrobial activity of *Mentha piperita* in two stages of growth.** Iranian Journal of Biology, 21(5): 62-70 2009.
- 17.** Naghdi Badi H., Sorooshzadeh A., Sharifi M., Ghalavand A., Saadat S., Rezazadeh S. **Biochemical and Antioxidant Responses of Borage Seedlings in Saline Environments.** Journal of Medicinal Plants, 8(5): 13-23 2009. (In English)
- 18.** Alipour-Darvary H., Zare-Mayvan H., Sharifi M., **Peroxidase activity in *Raphanus sativus* and its relationship with soil heavy metals.** Journal of Science University of Tehran, 35(1): 37-43 2009.
- 19.** Ahmadian Chashmi N., Sharifi M., Karimi F., Rahnama H. **Differential Production of Tropane Alkaloids in Hairy Roots and *in vitro* Cultured Two Accessions of *Atropa belladonna* L. under Nitrate Treatments.** Zeitschrift fuer Naturforschung C, 65c: 373-379 2010.
- 20.** Yousefzadi M., Sharifi M., Behmanesh M., Moyano E., Bonfill M., Cusido R.M., Palazon J. **An approach to the biotechnological production of podophyllotoxin: a potential natural product for clinical anticancer drugs.** Engineering in Life Science, 10(4): 281-292 2010.

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- 22.** Yousefzadi M., Sharifi M., Behmanesh M., Ghasempour A., Moyano E., Palazon J. **Salicylic acid-induced changes to phenylpropanoid gene expression and podophyllotoxin production in cell cultures of *Linum album*.** *Biotechnology Letters*, 32: 1739-1743 2010.
- 23.** Ahmadian Chashmi N., Sharifi M., Karimi F., Rahnama H. **Comparative study of tropane alkaloids production in hairy roots and plantlet cultures of *Atropa belladonna* L. by salicylic acid treatments.** *Iranian Journal of Plant Biology*, 1:3 63-76 2010.
- 24.** Moradi A., Sharifi M., Mousavi A. **Effect of methyl jasmonate on H6H and PMT genes expression in hairy root and plantlet cultures of *Atropa belladonna* L.** *Iranian Journal of Biology*, 24(3): 366-372 2010.
- 25.** Sharifi M., Mohtashamian M., Riyahi H., Aghaee A., Alavi S.M. **The effects of Vesicular-Arbuscular Mycorrhizal (VAM) fungus *Glomus etunicatum* on growth and some physiological parameters of basil.** *Iranian Medicinal Plant*, 36: 85-94 2010.
- 26.** Mahdavi B., Modarres-Sanavy S.A.M., Aghaalikhani M., Sharifi M., Dolatabadian A. **Chitosan improves osmotic potential tolerance in Safflower (*Carthamus tinctorius* L.) seedlings.** *Journal of Crop Improvement*, 25:6 728-741 2011.
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- 28.** Ziae M., Sharifi M., Behmanesh M., Razavi K. **Gene expression and activity of phenyl alanine ammonia-lyase and chemical composition of *Ocimum basilicum* L. at different growth stages.** Iranian Journal of Biotechnology, 10:1 32-39 2012
- 29.** Esmaeilzadeh Bahabadi S., Sharifi M., Safaie N., Murata J., Yamagaki T., Satake H. **Increased lignan biosynthesis in the suspension cultures of *Linum album* by fungal extracts.** Plant Biotechnology Reports, 5:367–373 2011.
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- 44.** Fakhari S., Sharifi M., Yousefzadi M., Beshamgan E. **Effect of some phytohormones on podophyllotoxin production in cell and plantlets cultures of *Linum album*.** Journal of Medicinal Plants and By-products 1: 83-89 2013.
- 45.** Ahmadian Chashmi N., Sharifi M., Yousefzadi M., Behmanesh M., Rezadoost H., Cardillo A., Palazon J. **Analysis of 6-methoxy podophyllotoxin and podophyllotoxin in hairy root cultures of *Linum album* Kotschy ex Boiss,** Medicinal Chemistry Research 22:745–752 (2013)
- 46.** Afkar S., Karimzadeh Gh., Jalali Javaran M., Sharifi M., Behmanesh M. **Methyl jasmonate-induced changes in non- and antioxidant-enzymatic defense in Peppermint (*Mentha piperita*).** Journal of Plant Physiology and Breeding 3(1): 13-21, 2013.
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- 58.** Fakhari S., Sharifi M. **Increased podophyllotoxin production and phenylalanine ammonia lyase activity in cell culture of *Linum album* by methyl jasmonate.** *Journal of Plant Production* 20 (4): 163-176, 2014.
- 59.** Khajehzadeh MH., Zare-maivan H., Ghanati F., Sharifi M. **Changes of enzymes activity and production of secondary metabolites of *Artemisia aucheri* in different altitudes and its relation to adaptation.** *Journal of Chemical Health Risks*, 4(3): 57–66 2014.
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- 2- **Mycorrhiza (Physiology & Biotechnology)** 2010,

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