

CURRICULUM VITAE



Mohammad Mahmoodi

PERSONAL INFORMATION

Full Name: Mohammad Mahmoodi
Date of Birth: 10th May, 1981
Place of Birth: Sourestan, Iran
Nationality: Iranian
Marital status: Married

ADDRESS

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UNIVERSITY STUDIES

2001-2004

University of Ferdowsi, Mashhad, Iran

Dept. of Horticultural Science

B.Sc. in Agricultural Engineering-Horticulture (Highest distinction)

2004-2006

Tarbiat Modares University, Iran

Faculty of Agriculture,

Dept. of Horticultural Science

M.Sc. in Agricultural Engineering-Horticulture (Highest distinction)

Thesis: Pollination, pollen tube growth and determination of the best pollinizer for sweet cherry (*Prunus avium* L. cv. Red Rezaeieh)

Supervisor: Dr. Kazem Arzani (Assistant Professor);

Advisor: Dr. Naser Bouzari (Assistant Professor).

2006-2010

Tarbiat Modares University, Iran

Faculty of Agriculture,

Dept. of Horticultural Science

Ph.D in Horticultural Science (medicinal plant)

Thesis: Effect of Drought Stress on Some Morphological, Physiological and Biochemical Characteristics in Anise hyssop (*Agastache foeniculum* [Pursh] Kuntze)

Supervisor: Dr. Reza Omidbaigi (Professor); and Dr. Seyed Mohammad Fakhri Tabatabaee (Assistant Professor);

Advisor: Dr. Hassan Ebrahimzade (Professor).

Abroad experience

Visitor researcher at the department of Plant Production, Faculty of Agriculture, University of Milan, Milan, Italy, (supervisor: Dr. Antonio Ferrante).

Research on: Biofortification of baby vegetable and medicinal plant plants applying selenium in the nutrient solution of floating system

Visitor researcher at the Department of Pharmacognosy, Faculty of Pharmacy, University of Szeged (2017), (supervisor: Prof. Dr. Judit Hohmann; Dr. Csupor Dezs_).

Research on: Main flavonoids of chamomile.

PUBLICATIONS

International Journals

1. Omidbaigi, R. and **Mahmoodi Sourestani, M.** (2010), Effect of irrigation regimes on the essential oil content and composition of *Agastache foeniculum*. Journal of Essential Oil Bearing Plants, 13 (1): 59-65.
2. **Mahmoodi Sourestani, M.**, (2013) Diurnal variations of gas exchange characteristics in leaves of anise hyssop (*Agastache foeniculum*) under normal, drought stress and recovery conditions, Journal of Medicinal Plants and By-products (JMPB) 2 (1): 91-101.
3. Ferrarese, M., **Mahmoodi Sourestani, M.**, Quattrini, M., Schiavi, M. and Ferrante, (2012). Biofortification of spinach plants applying selenium in the nutrient solution of floating system. Vegetable Crops Research Bulletin 76: 127-136.
4. **Mahmoodi Sourestani, M.** Malekzadeh, M. and Tava, A. (2014). Influence of drying, storage and distillation times on essential oil yield and composition of anise hyssop [*Agastache foeniculum* (Pursh.) Kuntze]. Journal of Essential Oil Research. 26 (3):177-184.
5. Saeedfar, S., Negahban, M. and **Mahmoodi Sourestani, M.** (2015). The Effect of Drought Stress on the Essential Oil Content and Some of the Biochemical Characteristics of Anise Hyssop (*Agastache foeniculum* [Pursh] Kuntze). European Journal of Molecular Biotechnology, 2015, 8 (2): 103-114.
6. Moghimipour, Z., **Mahmoodi Sourestani, M.**, Alemzadeh Ansari, N. and Ramazani, Z. The effect of foliar application of zinc on essential content and composition of holy basil [*Ocimum sanctum*] at first and second harvests. Journal of Essential Oil Bearing Plants, 20 (2): 449-458.

National Journals

1. **Mahmoodi Sourestani, M.** and Akbarzade, M. (2014). Seasonal changes in essential oil content yield and composition of spearmint cultivated in Shoshtar. *Agricultural Crops Management*, 16 (3): 613-625.
2. **Mahmoodi Sourestani, M.** and Akbarzade, M. (2015). The effect of harvest time on essential oil content, yield and composition of spearmint (*Mentha spicata* L.) in the Hamidiyeh region. *Journal of Plant Production*, 38 (1): 115-129.
3. Badvi, H., Alemzade Ansari, N, **Mahmoodi Sourestani, M.** and Eskandari, F. (2015). Effects of drought stress and mycorrhizal fungi on some morphophysiological characteristics of lettuce (*Lactuca sativa* L.). *Journal of Plant Production*, 38 (3): 27-39.
4. Moghadam, E., **Mahmoodi Sourestani, M.**, Farrokhian Firozi, A., Ramazani, Z. and Eskandari, F. (2015). The effect of foliar application of iron chelate type on morphological traits and essential oil content of holy basil. *Agricultural Crops Management*, 17 (3): 595-606.
5. Moghimipour, Z. **Mahmoodi Sourestani, M.**, Alemzade Ansari, N, and Ramazani, Z. (2015). The influence of foliar application of nano zinc chelate and zinc sulfate on morphological traits of holy basil (*Ocimum sanctum* L.). *Journal of Plant Production*, 38 (3): 41-53.
6. Moghadam, E., **Mahmoodi Sourestani, M.**, Farrokhian Firozi, A., Ramazani, Z. and Eskandari, F. (2016). Effects of iron foliar application on the number and size of glandular trichomes and essential oil content and composition of holy basil (*Ocimum sanctum* L.) at first and second. *Iranian Journal of Medicinal and Aromatic plants*, 32 (1): 174-188.
7. Moghimipour, Z., **Mahmoodi Sourestani, M.** and Alemzade Ansari, N. (2016). Effects of foliar application of nano zinc chelate and zinc sulfate on zinc content, pigments and photosynthetic indices of holy basil (*Ocimum sanctum* L.). *Journal of Horticulture Science*, 30 (2): 242-250.
8. Moghadam, E., **Mahmoodi Sourestani, M.** and Farrokhian Firozi, A. (2016). The effect of foliar application of iron on some biochemical and photosynthetic characteristics of Holy basil (*Ocimum sanctum* L.). *Iranian Journal of Horticulture Science*, 47 (3): 543-552.
9. **Mahmoodi Sourestani, M.** (2016). The study on diurnal changes in leaf gas exchange of lemon balm, catnip, holy basil and sweet basil in Ahvaz. *Journal of Horticulture Science*, 30 (3): 395-405.
10. **Mahmoodi Sourestani, M.**, Derikvandi, M., Chehrazi, M., and Jafari, A.A. (2016). Evaluation of growth, seed yield and oil quantity and quality of some borage (*Borago officinalis* L.) populations and cultivars under Ahvaz weather condition. *Iranian Journal of Medicinal and Aromatic plants*, 32 (4): 598-610.
11. Boveiri Dehsheikh, A., **Mahmoodi Sourestani, M.**, Zolfaghari, M., and Enayatizamir, N. (2017). The effect of plant growth promoting rhizobacteria, chemical fertilizer and humic acid on morpho-physiological characteristics of basil (*Ocimum basilicum* var. thrysiflorum). *Journal of Sustainable Agriculture and Production Science*, 26 (4): 129-142.
12. **Mahmoodi Sourestani, M.** and Akbarzade, M. (2016). Comparison of the Essential Oil Content and Composition of Fresh Leaf and Flower of Spearmint (*Mentha spicata* L.) Cultivated in Hamidieh and Shoshtar Locations at Different Harvest Times. *Plant Production Technology*, 16 (1): 193-205.

13. Boveiri Dehsheikh, P., **Mahmoodi Sourestani, M.**, Zolfaghari, M., and Enayatizamir, N. (2017). The study on the effect of biological and chemical fertilizers and humic acid on the growth, physiological characteristics and essential oil content of catnip (*Nepeta cataria* L.). *Journal of Plant Production Research*, 24 (2): 61-76.
14. **Mahmoodi Sourestani, M.** (2018). Essential oil quantity and quality of two ecotypes of spearmint (*Mentha spicata* L.) In different harvesting times. *Journal of Horticulture Science*, 31 (4): 825-835.
15. Badwi, M., **Mahmoodi Sourestani, M.**, Zolfaghari, M. and Jafari, A.A. (2018). The comparison on seed and oil yields, oil quantity and quality of Flaxseed (*Linum usitatissimum* L.) cultivars and accessions. *Iranian Journal of Horticulture Science*, (Accepted).
16. Momeni Monfared, M. **Mahmoodi Sourestani, M.**, Zolfaghari, M. and Malekzadeh, M. (2018). Evaluation of quantitative and qualitative characteristics of essential oil of some Basil (*Ocimum basilicum*) accessions in Ahvaz weather conditions. *Iranian Journal of Medicinal and Aromatic plants*, 34 (2): 286-297.

Congress and conferences

1. **Mahmoodi Sourestani, M.**, Omidbaigi, R., Sabaghnia, N. and Mohebodini, M. (2007). The effect of different treatments on seed dormancy and germination of lovage (*Levisticum officinalis*). Abstract. The 3rd Congress of Medicinal Plants. 23-24, Oct. 2007, Tehran, Iran. P.112.
2. Malekzadeh, M., **Mahmoodi Sourestani, M.**, and Omidbaigi, R. (2010). Diurnal changes in net photosynthesis rate, stomatal conductance and transpiration rate in leaves of *Agastache foeniculum* under normal and stress conditions, First international congress of medicinal plant, 12-15 July 2010, Shiraz, Iran.
3. Malekzadeh, M., **Mahmoodi Sourestani, M.**, Omidbaigi, R. and Ebrahimzadeh, H. (2010). The Effect of Drought Stress on Percentage of Essential Oil and Constituents of *Agastache Foeniculum* at Third Harvest, First international congress of medicinal plant, 12-15 July 2010, Shiraz, Iran.
4. Ferrareze, M., **Mahmoodi Sourestani, M.**, Quatrini, E. and Ferrante, A. (2010). Biofortification of spinach plants applying selenium in the nutrient solution of floating system, 2nd International Conference Effect of Pre- and Post-harvest Factors on Health Promoting Components and Quality of Horticultural Commodities, Skierniewice, Poland; 22-25 May 2010.
5. **Mahmoodi Sourestani, M.** (2016). Oil content, yield and composition of spearmint (*Mentha spicata* L. var. Kashan) at different cuts. The first Iranian seminar of essential oil, Qamsar, Iran, 10-11 May 2016.
6. **Mahmoodi Sourestani, M.** (2016). *Mentha longifolia* (L.) Huds. essential oil and its main constituents affected by harvest time. The first Iranian seminar of essential oil, Qamsar, Iran, 10-11 May 2016.
7. **Mahmoodi Sourestani, M.** (2016). Oil content, yield and composition of spearmint (*Mentha spicata* L. var. Kashan) at different cuts. The first Iranian seminar of essential oil, Qamsar, Iran, 10-11 May 2016.
8. **Mahmoodi Sourestani, M.** (2016). Photosynthetic behavior of lemon balm, catnip, holy basil and sweet basil under heat stress. 9th Conference on Medicinal and Aromatic Plants of Southeast European Countries, 26 – 29 May 2016, Plovdiv, Bulgaria.
9. **Mahmoodi Sourestani, M.**, Moghimipour, Z. and Moghaddam, E. (2016). Improvement of gas exchange of holy basil (*Ocimum sanctum* L.) Under environmental

stresses by Fe and Zn fertilization. 9th Conference on Medicinal and Aromatic Plants of Southeast European Countries, 26 – 29 May 2016, Plovdiv, Bulgaria.

RESEARCH INTERESTS

- Stress physiology of Medicinal Plant
- Medicinal Plant Production

SKILLS

- GC and GC-MS
- HPLC
- Windows xp, 7, 8
- Office package (Word, Excel and PowerPoint);
- Graphics software (Photoshop);
- Statistical software's (SAS, MSDAT, SPSS).

COURSES & WORKSHOPS

- Instructional technology (IT), 2008, Tehran, Iran.
- Perilla Day, 2010, Milan, Italy
- HPLC
- Formulation of creams

COURSE TAUGHT

- Plant Physiology
- The application of computer in horticultural science
- Cultivation of Medicinal and Aromatic plants
- Physiology of Medicinal and Aromatic plants
- Extraction methods of secondary metabolites

MEMBERSHIPS

- Iranian Society for Horticultural Science
- Iranian Society for Medicinal Plant