

Curriculum Vitae (CV)

Mohammad-Taghi Ebadi (Ph.D)

Assistant Professor of Medicinal, Aromatic and Beverage Plants (Physiology and Breeding)

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RESEARCH INTERESTS

- Domestication and Cultivation of Native Medicinal and Aromatic Plants of Iran
- Processing of Medicinal, Aromatic and Beverage Plants
- Ecophysiology of Medicinal, Aromatic and Beverage Plants

EDUCATION (Ph.D.)

- **Tarbiat Modares University (TMU),** Tehran, Iran
Ph.D. in Physiology and Breeding of Medicinal Plants (2010-2015)
Thesis Title: Investigation of Organic Manures, Irradiation, Drying Methods and Packaging on Quantitative and Qualitative Characteristics of Active Ingredients of Lemon Verbena (*Lippia citriodora* Kunth.).
Advisor: Prof. Dr. Majid Azizi & Prof. Dr. Fatemeh Sefidkon

(M.Sc.)

- **Ferdowsi University of Mashhad (FUM),** Mashhad, Iran
M.Sc. in Horticulture Science (Medicinal Plants) (2007-2009)
Thesis Title: Effect of Sowing Date and Seeding Levels on Growth Factors, Flower Yield, Essential Oil Content and Composition of Presov Chamomile (*Matricaria recutita* L.)
Advisor: Prof. Dr. Majid Azizi

(B.Sc.)

- **Shahid Bahonar University of Kerman,** Kerman, Iran
B.Sc. in Horticulture Science (2005-2007)
Thesis Title: Review about Common Thyme (*Thymus vulgaris* L.).
Advisor: Prof. Dr. M.H Fooladi

(Pre-B.Sc.)

- **Ferdowsi University of Mashhad (FUM),** Mashhad, Iran
Pre-B.Sc. in Cultivation and Processing of Medicinal and Aromatic Plants (2003-2005)

HONORS

- **Distinguished Iran student Award** in 2009, Ministry of Science, Research and Technology.
- **Exceptional Talent Committee Winner** for Ph.D. entrance, 2010.
- **National Festival of Iranian Youth** in 2010, Ministry of Youth and Sports.
- **IFEAT Young Scientist Sponsorship** in 2019. 50th International Symposium

TEACHING EXPERIENCES

- **Ferdowsi University of Mashhad (FUM)**, Mashhad, Iran, 2008-2009. Cultivation of Medicinal and Aromatic Plants & Domestication of Medicinal and Aromatic Plants.
 - **Ferdowsi University of Mashhad (FUM)**, Mashhad, Iran, 2009-2010. Cultivation of Medicinal and Aromatic Plants.
 - **Giahdaneh School (Technical and Vocational Training Organization)**, Tehran, Iran, 2014. User of Essential oils.
 - **Tarbiat Modares University (TMU)**, Tehran, Iran, 2016-2020. "Agro-industrial Design of Medicinal and Aromatic Plants", "Physiology of Medicinal Plants", "Identification and Introducing Native Medicinal Plants of Iran", "Ecophysiology of Seeds", "Plant Nutrition and Metabolism", "Physiology of Vegetable Crops" and "Special Methods of Vegetable Growing".
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WORK EXPERIENCES

- **Advisor of Project** Entitled "Ecological Garden of Medicinal and Aromatic Plants". 2004 & 2007. Client: Ferdowsi University of Mashhad, Iran.
 - **Supervisor of Project** Entitled "Cultivation and Processing of Medicinal and Aromatic Plants". 2008-2010.
 - **Editor of E-Newsletter**. 2010- 2012. Iranian Medicinal Plants Society (IMPS).
 - **Editor of the Educational & News Network of Medicinal Plants (www.medplant.ir)**. 2012- Now.
 - **Advisor of Project** Entitled "Garden Museum of Medicinal Plants". 2015-2016.
 - **Advisor of Some Companies for Cultivation, Processing and Trade of Medicinal and Aromatic Plants**. 2008-Now.
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PUBLICATIONS

Journal Articles (selected):

1. Shahhoseini, R., Beyraghdar, A., Karimi, S. R., & **Ebadi, M.T.** (2013). Essential oil content and composition of lemon verbena (*Lippia citriodora* Kunth.) during different phenological stages. Journal of Medicinal Plants and By-Products, 2(2), 205-208.
 2. Hosseinkazemi, H., Biazar, E., Bonakdar, S., **Ebadi, M.T.**, Shokrgozar, M. A., & Rabiee, M. (2015). Modification of PCL electrospun nanofibrous mat with *Calendula officinalis* extract for improved interaction with cells. International Journal of Polymeric Materials and Polymeric Biomaterials, 64(9), 459-464.
 3. **Ebadi, M.T.**, Azizi, M., Sefidkon, F., & Ahmadi, N. (2015). Influence of different drying methods on drying period, essential oil content and composition of *Lippia citriodora* Kunth. Journal of Applied Research on Medicinal and Aromatic Plants, 2(4), 182-187.
 4. **Ebadi, M.T.**, Sefidkon, F., Azizi, M., & Ahmadi, N. (2017). Packaging methods and storage duration affect essential oil content and composition of lemon verbena (*Lippia citriodora* Kunth.). Food Science & Nutrition, 5(3), 588-595.
 5. Labruzzo, A., Carrubba, A., Di Marco, G., & **Ebadi, M.T.** (2017). Herbicidal potential of aqueous extracts from *Melia azedarach* L., *Artemisia arborescens* L., *Rhus coriaria* L. and *Lantana camara* L. Allelopathy Journal, 41(1), 81-92.
 6. Shahhoseini, R., Saeidi, K., Babaahmadi, H., & **Ebadi, M.T.** (2018). Effect of fertilizers and superabsorbent hydrogel on the yield, essential oil content and
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- composition of lemon verbena (*Lippia citriodora* Kunth.) cultivated in Iran. Journal of Essential Oil Bearing Plants, 21(1), 230-236.
7. Hoseini, S. S., Najafi, G., Ghobadian, B., Mamat, R., **Ebadi, M.T.**, & Yusaf, T. (2018). Novel environmentally friendly fuel: The effects of nanographene oxide additives on the performance and emission characteristics of diesel engines fuelled with *Ailanthus altissima* biodiesel. Renewable energy, 125, 283-294.
 8. Hoseini, S. S., Najafi, G., Ghobadian, B., Yusaf, T., & Ebadi, M. (2018). The effects of Camelina "Soheil" as a novel biodiesel fuel on the performance and emission characteristics of diesel engine. Applied Sciences, 8(6), 1010.
 9. Hoseini, S. S., Najafi, G., Ghobadian, B., Mamat, R., **Ebadi, M.T.**, & Yusaf, T. (2018). *Ailanthus altissima* (tree of heaven) seed oil: Characterisation and optimisation of ultrasonication-assisted biodiesel production. Fuel, 220, 621-630.
 10. Hoseini, S. S., Najafi, G., Ghobadian, B., Mamat, R., **Ebadi, M.T.**, & Yusaf, T. (2019). Characterization of biodiesel production (ultrasonic-assisted) from evening-primroses (*Oenothera lamarckiana*) as novel feedstock and its effect on CI engine parameters. Renewable energy, 130, 50-60.
 11. **Ebadi, M.T.**, Abbasi, S., Harouni, A., & Sefidkon, F. (2019). Effect of cold plasma on essential oil content and composition of lemon verbena. Food science & nutrition, 7(4), 1166-1171.
 12. Rezaei, S., Ghobadian, B., **Ebadi, M.T.**, Jangi, F., & Ghomi, H. (2019). Effects of cold plasma on the color parameters of Hyssop (*Hyssopus officinalis* L.) using color imaging instrumentation and spectrophotometer. Color Research & Application, 45(1): 29-39.
 13. Hazrati, S., **Ebadi, M.T.**, Mollaei, S., & Khurizadeh, S. (2019). Evaluation of volatile and phenolic compounds, and antioxidant activity of different parts of *Ferulago angulata* (schlecht.) Boiss. Industrial Crops and Products, in press.
 14. Norani, M., **Ebadi, M.T.**, & Ayyari, M. (2019). Volatile constituents and antioxidant capacity of seven *Tussilago farfara* L. populations in Iran. Scientia Horticulturae, in press.
 15. Hoseini, S. S., Najafi, G., Ghobadian, B., **Ebadi, M.T.**, Mamat, R., & Yusaf, T. (2020). Biodiesels from three feedstocks: The effect of graphene oxide (GO) nanoparticles diesel engine parameters fuelled with biodiesel. Renewable Energy, 145, 190-201.
 16. Hoseini, S. S., Najafi, G., Ghobadian, B., **Ebadi, M.T.**, Mamat, R., & Yusaf, T. (2020). Performance and emission characteristics of a CI engine using graphene oxide (GO) nano-particles additives in biodiesel-diesel blends. Renewable Energy, 145, 458-465.
 17. Navab Safa, N., Dorraki, N., **Ebadi, M.T.**, Maroofi, A., Ghasempour, A., & Ghomi, H. (2020). Decontamination of peppermint distillate using spark plasma: microbiological and physicochemical evaluation. Journal of Food Science and Technology, 57(9), 3314-3322.
 18. Hazrati, S., Govahi, M., **Ebadi, M.T.**, & Habibzadeh, F. (2020). Comparison and evaluation of oil content, composition and antioxidant properties of *Pistacia atlantica* and *Pistacia khinjuk* grown as wild. International Journal of Horticultural Science and Technology, 7(2), 165-174.
 19. Mokhtarikhah, Gh., **Ebadi, M.T.**, & Ayyari, M. (2020). Qualitative changes of spearmint essential oil as affected by drying methods. Industrial Crops and Products. In press.
 20. Hoseini, S. S., Najafi, G., Moazzez, A. F., Hazrati, S., **Ebadi, M.T.**, & Yusaf, T. (2020). Potential of *Chrozophora tinctoria* seed oil as a biodiesel resource. Applied Sciences. In press.
 21. Mokhtarikhah, G., **Ebadi, M.T.**, & Ayyari, M. (2020). Qualitative changes of spearmint essential oil as affected by drying methods. Industrial Crops and Products. In press.
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22. Saebi, A., Minaei, S., Mahdavian, A., & **Ebadi, M.T.** (2021). Precision harvesting of medicinal plants: elements and ash content of hyssop (*Hyssopus officinalis* L.) as affected by harvest height. *Biological Trace Element Research Journal*, 199, 753–762.
 23. Saebi, A., Minaei, S., Mahdavian, A. R., & **Ebadi, M.T.** (2021). quantity and quality of hyssop (*Hyssopus officinalis* L.) affected by precision harvesting. *International Journal of Horticultural Science and Technology*, 8(3), 271-284.
 24. Hazrati, S., Lotfi, K., Govahi, M., & **Ebadi, M.T.** (2021). A comparative study: Influence of various drying methods on essential oil components and biological properties of *Stachys lavandulifolia*. *Food Science & Nutrition*. In press.
 25. Rezaei, S., **Ebadi, M.T.**, Ghobadian, B., & Ghomi, H. (2021). Optimization of DBD-plasma assisted hydro-distillation for essential oil extraction of fennel (*Foeniculum vulgare* Mill.) seed and spearmint (*Mentha spicata* L.) leaf. *Journal of Applied Research on Medicinal and Aromatic Plants*. In press.
 26. Jangi, F., **Ebadi, M.T.**, & Ayyari, M. (2021). Qualitative changes in hyssop (*Hyssopus officinalis* L.) as affected by cold plasma, packaging method and storage duration. *Journal of Applied Research on Medicinal and Aromatic Plants*. In press.
 27. Yadegari, H., Khammari, I., Fakheri, B.A., Nouri, R., **Ebadi, M.T.** (2021). Flavonolignans of milk thistle (*Silybum marianum* L.) seeds affected by fertilization method and plant genotype. *International Journal of Horticultural Science and Technology*. In press.

Books:

- Nadjafi, F., **Ebadi, M.T.**, Abbasian, J. 2011. Medicinal and Aromatic Crops: Harvesting, Drying, and Processing (Translation). Shahid Beheshti University Press. 380 pages.
- Safaei, N., Mahdizadeh, V., **Ebadi, M.T.**, Saeedi, A. 2013. Medicinal Plants Diseases. Agricultural Extension and Education Press. 388 pages.
- Kafi, M., Homayouni, GH., **Ebadi, M.T.**, Zare, A. 2014. Application of Medicinal and Aromatic Plants in Landscape Design and Healing Gardens. Agricultural Extension and Education Press. 384 pages.
- **Ebadi, M.T.**, Qahari Kermani, F. 2017. Herb Processing Facility (Translation). Agricultural Extension and Education Press. 57 pages.
- Yadegari, H., **Ebadi, M.T.**, Jalilian, N. 2018. Medicinal Trees and Shrubs (Production, Exploitation and Processing). Agricultural Extension and Education Press. 246 pages.

Exclusive Documentaries:

- Asareh, M.H., **Ebadi, M.T.**, Abbasian, J. 2014. Exclusive Documentary on the Second National Festival and Exhibition on Medicinal Plants, Natural Products and Iranian Traditional Medicine. 220 pages.
- Asareh, M.H., **Ebadi, M.T.**, Abbasian, J. 2016. Exclusive Documentary on the Third National Festival and Exhibition on Medicinal Plants, Natural Products and Iranian Traditional Medicine. 256 pages.
- Asareh, M.H., **Ebadi, M.T.**, Abbasian, J. 2018. Exclusive Documentary on the Forth National Festival and Exhibition on Medicinal Plants, Natural Products and Iranian Traditional Medicine. 238 pages.

Conference Article (selected):

- **Ebadi, M.T.**, Carrubba, A. 2014. Use of some water extracts as bio-herbicides. X Convegno Nazionale Sulla Biodiversita. Rome, Italy. 161-166.
 - **Ebadi, M.T.**, Harouni, A., Abbasi, S., Sefidkon, F. 2017. Effect of low pressure cold plasma treatment on lemon verbena (*Lippia citriodora* Kunth.) essential oil. 48th International Symposium on Essential Oils (ISEO2017), Pécs, Hungary. pp: 95.
 - Jangi, F., **Ebadi, M.T.**, Ayyari, M. 2017. Different drying methods affect the quality of hyssop (*Hyssopus officinalis* L.). First International Conference & 10th National Horticultural Science Congress of Iran (IrHC2017). Tehran, Iran. pp: 272.
 - Norani, M., Ayyari, M., **Ebadi, M.T.** 2017. Morphological characteristics in some cultivated populations of *Tussilago farfara* from Iran. First International Conference & 10th National Horticultural Science Congress of Iran (IrHC2017). Tehran, Iran. pp: 275.
 - Ayyari, M., Jaki, Z., **Ebadi, M.T.** 2017. Evaluation of morphological differences between wild and domesticated *Eryngium billardieri* in Iran. First International Conference & 10th National Horticultural Science Congress of Iran (IrHC2017). Tehran, Iran. pp: 284.
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