



PERSONAL INFORMATION:

Full Name: Sarah Khorasaninejad

Nationality: Iranian

Academic Level: Associate Professor

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EDUCATION:

Doctor of Philosophy of Horticultural Sciences 2010

Islamic Azad University of Tehran (Sciences and Researches Unit)

Thesis: The effect of salinity and drought stresses on secondary metabolites biosynthesis and gene expression pattern of related biochemical pathway in Peppermint (*Mentha piperita* L.)

Master of Horticultural Sciences 2006

Tehran University

Thesis: Allelopathic Effects of Cucumber On Emergence And Growth Of Itself, Tomato, Eggplant and Pepper.

Bachelor of Horticultural Sciences 2002

Gorgan University of Agricultural Sciences and Natural Resources

RESEARCH INTEREST:

Stress physiology in medicinal plants

Domestication, Breeding and gene expression in medicinal plants

Soilless culture in medicinal plants

PUBLICATION:

International

1. **Khorasaninejad, S. (PhD. Thesis)**, Mousavi, A., Soltanloo, H., Hemmati, K. and Khalighi, A. 2010. The Effect of Salinity Stress on Growth Parameters, Essential oil Yield and Constituent of Peppermint (*Mentha piperita* L.). World Applied Sciences Journal, 11 (11): 1403-1407.

2. **Khorasaninejad, S. (PhD. Thesis)**, Mousavi, A., Soltanloo, H., Hemmati, K. and Khalighi, A. 2011. The effect of drought stress on growth parameters, essential oil yield and constituent of Peppermint (*Mentha piperita* L.). Journal of Medicinal Plants Research, 5(22): 5360-5365.
3. Zamani, S., **Khorasaninejad, S. (Supervisor of Msc thesis)** and Kashefi, B. 2013. The Importance Role of Seaweeds of Some Characters of Plant. International Journal of Agriculture and Crop Sciences. 5(16):1789-1793.
4. **Khorasaninejad, S. (Supervisor of Msc thesis)**, Alizadeh ahmadabadi, A. and Hemmati, Kh. 2018. The effect of humic acid on leaf morphophysiological and phytochemical properties of *Echinacea purpurea* L. under water deficit stress. Scientia Horticulturae. 239: 314-323.
5. **Khorasaninejad, S. (Supervisor of Msc thesis)**, Zare, F. and Hemmati, Kh. Effects of silicon on some phytochemical traits of purple coneflower (*Echinacea purpurea* L.) under hydroponic saline environment. Scientia Horticulturae. (Under Print) <https://doi.org/10.1016/j.scienta.2019.108954>.
6. Hossein Gorgini Shabankareh, **Sarah Khorasaninejad (Supervisor of PhD thesis)**, Hasan Soltanloo and Vahid Shariati. 2021. Physiological response and secondary metabolites of three lavender genotypes under water deficit. Scientific Reports. 11:19164. <https://doi.org/10.1038/s41598-021-98750-x>

National

1. **Khorasaninejad, S. (Msc. thesis)**, Kashi, A.K. and Tabatabaei, M.F. 2009. Allelopathic Effects of Cucumber Organs' Extract on Growth Indices of Cucumber (*Cucumis Sativus* L.), Eggplant (*Solanum melongena* L.), Pepper (*Capsicum annum* L.), and Tomato (*Lycopersicum esculanum* M.) Seedlings. 40(1). (In Persian)
2. **Khorasaninejad, S. (Msc. thesis)** and Kashi, A.K. 2010. Allelopathic Effects of Bell Pepper Organs' Extract on Growth Indices of Cucumber (*Cucumis Sativus* L.), Eggplant (*Solanum melongena* L.), Pepper (*Capsicum annum* L.), and Tomato (*Lycopersicum esculanum* M.) Seedlings. Agricultural Science and Sustainable Production. 21(2):1-9. (In Persian)
3. Chaldareh, M., Kashefi, B. and **Khorasaninejad, S.**, The Effect of Salicylic acid on proline contents and some of morphological characteristics of *Mentha piperita* L under Salinity Conditions. Journal of Namak, 2 (1): 1-9. (In Persian)
4. Najjar Firoozjaee, M., Hemmati, K., **Khorasaninejad, S.**, Daraei Garmekhaneh, A. and bagherifard, A.A. 2014. The Effect of Height on Morphological Characteristics and Some Secondary Metabolites of Nettle Plant in Mazandaran and Golestan Provinces. Journal of Plant Ecophysiological Research, 9(3): 1-10. (In Persian)
5. **Khorasaninejad, S. (Research Project)**, Soltanloo, H., Ramezanpour, S.S., Hadian, J. and Atashi, S. 2015. The Effect of Drought Stress on the Growth, Essential Oil Yield and Chemical Composition of Lavender. Journal of Crops Improvement (Journal of Agriculture), 17 (4): 979-988. (In Persian)
6. Sanginabadi, H. and **Khorasaninejad, S.** 2016. Effect of Salt and Drought Stresses and Pretreatment of Salicylic acid on Seed Germination Characteristics of Lavender (*Lavandula stricta* Del.). Journal of horticulture science, 30 (3), 423-430. (In Persian)

7. Sanginabadi, H., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Hemmati, Kh. and Ghasemnejad, A . 2016. A study on propagation methods of *Lavandula stricta* Del. Iranian Journal of Medicinal and Aromatic Plants, 32(3): 417-427. (In Persian)
8. Alizadeh Ahmadabadi, A. and **khorasaninejad, S.** 2016. The Effect of Humic acid Pretreatment on Germination of purple cornflower (*Echinacea purpurea*) plant under Drought and Salinity Conditions. Arid Biome Scientific and Research Journal, 6 (2): 97-107. (In Persian)
9. Mozaffari, S., **Khorasaninejad, S. (Supervisor of Msc thesis)** and Gorgini shabankareh, H. 2016. Effects of Irrigation content based on field capacity percent and Humic acid on morphophysiological traits on medicinal plant (*Portulaca oleracea* L.). Electronic journal of Crop Production, 9(4): 153-175. (In Persian)
10. Chorli, S., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Hemmati, Kh. and Kashefi, B. 2016. The study of morphological characteristics, antioxidant and essential oil contents of the medicinal plant *Stachys lavandulifolia* Vahl. in habitats of Semnan, Razavi, and North Khorasan provinces. Journal of Plant Ecophysiological Research, 11(41): 41-52. (In Persian)
11. **Khorasaninejad, S. (Research Project)**, Soltanloo, H., Hadian, J. and Atashi, S. 2016. The Effect of Salinity Stress on the Growth, Essential Oil Yield and Chemical Composition of Lavender (*Lavandula angustifolia*). Journal of horticulture science, 30 (2): 206-216. (In Persian)
12. Alizade ahmad abadi, A., **Khorasaninejad, S.** and Hemmati. 2017. The effect of limited irrigation stress and humic acid on the some morphological and root phytochemical characteristics of purple coneflower. Journal of Crops Improvement (Journal of Agriculture), 19(1): 1-14. (In Persian)
13. Kaghazloo, Z., Hemati, Kh. and **Khorasaninejad, S.** 2017. The effect of height on some secondary metabolites of different organs of Sambucus (*Sambucus ebulus* L.) in three cities of Golestan province. Journal of Plant Ecophysiological Research, 12(47): 31-43. (In Persian)
14. Rahkan, R., Soltanloo, H., Ramezanpour, S. and **Khoarasaninejad, S.** 2017. Evaluation of the expression pattern of *Fe-superoxide dismutase* and *Ferritin-3* genes under salinity in peppermint's leaf and root. Novin Genetic, 12(2): 273-283. (In Persian)
15. Mozaffari, S., **Khorasaninejad, S. (Supervisor of Msc thesis)** and Gorgini shabankareh, H. 2017. The effects of irrigation regimes and humic acid on some of physiological and biochemical traits of Common Purslane in greenhouse. Journal of Crops Improvement (Journal of Agriculture), 19 (2): 401-416. (In Persian)
16. Gorgini shabankareh, H. and **Khorasaninejad, S.** 2017. Effects of sodium nitroprusside on physiological, biochemical and essence characteristics of savory (*Satureja khuzestanica*) under deficit water regimes. Journal of Plant Production Research, 24 (3): 55-70. (In Persian)
17. Gorgini shabankareh, H. and **Khorasaninejad, S.** 2017. Effect of bio-fertilizers and Salicylic acid on growth, Essential oil Yield and N, P, K of Rosemary under irrigation regimes. Journal of Crops Improvement (Journal of Agriculture), 19(2): 475-491. (In Persian)

18. Soltanloo, H., Ramezanpour, S.S. and **Khorasaninejad, S.** 2017. Valuation of the expression pattern of Fe-superoxide dismutase and Ferritin-3 genes under salinity in peppermint's leaf and root. *Iranian Genetics Society*, 12(2): 273-283. (In Persian)
19. Chorli, S. and **Khorasaninejad, S.** 2017. Morphological, ethnopharmacological, biochemical and anti-fungal characteristic of *Ceratocephalus falcatus* L. *Journal of Medicinal and Aromatic Plants*, 33(4): 579-587. (In Persian)
20. Moetamedi, S. and **Khorasaninejad, S.** 2017. The study of Flora in protected area of Badr and paryshan, Qorveh, Kurdistan. *Journal of Plant Ecosystem Conservation*, 5(11): 1-16. (In Persian)
21. Gorgini shabankareh, H. and **Khorasaninejad, S.** 2018. Effects of different levels of vermicompost on morphophysiological and essential oil characteristics of Peppermint (*Mentha piperita* L.) under water deficit regimes. *Electronic journal of Crop Production*, 10(4): 59-74. (In Persian)
22. Mazloomi Abukhyly, M. **Khrasanynzhad, S. (Supervisor of Msc thesis)** and Alizadeh, M. 2018. Comparison of the effects of nano fertilizer and chemical fertilizer on morphophysiological and phytochemical properties of *Lavandula stricta* Del. regeneration from seed and tissue culture. *Iranian Journal of Medicinal and Aromatic Plants*, 33(6): 975-989. (In Persian)
23. Zare, F., **Khorasaninejad, S. (Supervisor of Msc thesis)**. and Hemmati, Kh. 2018. The effect of silicon on some morpho-physiological and phytochemical traits of Purple Coneflower (*Echinacea purpurea* L.) under salinity stress. *Iranian Journal of Plant Biology*. 10 (3): 55-68. (In Persian)
24. Gorgini Shabankareh, H., **Khorasaninejad, S. (Co-worker)**., Sadeghi, M. and Tabasi, A.R. 2018. The effects of irrigation periods and humic acid on morpho-physiological and biochemical traits of Thyme (*Thymus vulgaris*). *Journal of Plant Ecophysiological Research*, 13(51), 67-82. (In Persian)
25. Motamedi Sharak, H., Hemmati, Kh. And **Khorasaninezhad, S.** 2019. Effect of Foliar Application of Abscisic Acid on Morpho-Physiological and Biochemical Traits of *Cannabis sativa* L. under soil moisture conditions. *Eco-phytochemical Journal of Medicinal Plants*, 7(1):2-24. (In Persian)
26. Gorgini Shabankareh, H., **Khorasaninejad, S. (Supervisor of PhD. thesis)**, Soltanloo, H. and Shariati, The Effect of external abscisic acid on some physiological factors and gas exchanges of Lavender (*Lavandula angustifolia* cv. Organic Munstead) in response to drought stress. *Journal of Plant Ecophysiological Research*, (accepted paper). (In Persian)
27. Gorgini Shabankareh, H., **Khorasaninejad, S. (Co-worker)**., Sadeghi, M. and Ebrahimi, P. 2018. The effect of irrigation intervals on growth, physiological and biochemical indices of coneflower (*Echinaceae purpurea* (L.) Monch) under humic acid foliar application. *Electronic journal of Crop Production*, 12 (3): 101-120. (In Persian)
28. Chorli, S., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Hemmati, Kh. and Kashefi, B. 2020 Ethnopharmacological, quantity and quality of flower and leaf of *Stachys lavandulifolia* Vahl. in four sites included Provinces of Semnan, Razavi and North Khorasan. *Journal of Plant Ecophysiological Research*, 15(59): 72-88. (In Persian)
29. Gorgini Shabankareh, H., **Khorasaninejad, S. (Supervisor of PhD. thesis)**, Soltanloo, H. and Shariati, V. (2021). The Effect of Abscisic acid regulator on yield, antioxidant

- enzymes activity and proline content of lavender (*Lavandula angustifolia* cv. Organic Munstead) in response to deficit irrigation. Iranian Journal of Horticultural Science, 52(1): 195-211. (In Persian)
30. Nouri Dashlibroon, H., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Mousavizadeh, S.J. and Mirjalili, M.H. 2020. Effects of colchicine treatment and polyploidy induction on yield components and some morphological and biochemical characteristics of *Lavandula stricta* Delile. Iranian Journal of Medicinal and Aromatic Plants Research, 36 (4): 572-589. (In Persian)
 31. **Khorasaninejad, S. (Research Project)**, Gorgini Shabankareh H., Azadi, M. and Mohajervatan, Z. 2020. Effect of iron nutrient on growth, physiological and biochemical trait of *Echinaceae purpurea* to water deficit treatments. Arid Biom Scientific and Research Journal, 9(2): 53-70. (In Persian)
 32. Hossein Gorgini Shabankareh, **Sarah Khorasaninejad (Supervisor of PhD. thesis)** and Hasan Soltanloo, Vahid Shariati. 2020. The Effect of external abscisic acid on some physiological factors and gas exchanges of Lavender (*Lavandula angustifolia* cv. Organic Munstead) in response to drought stress. Journal of Iranian Plant Ecophysiological Research, 15(58): 61-78. (In Persian)
 33. Gorgini Shabankareh, H., **Khorasaninejad, S. (Supervisor of PhD. thesis)**, Soltanloo, H. and Shariati, V. 2021. The effect of foliar application of abscisic acid on increasing drought stress tolerance in *Lavandula angustifolia* cv. Munstead Organic. Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 28(2): 298-311. (In Persian)
 34. Zarei, F., Hezarjaribi, A., **Khorasaninejad, S.**, Zakerinia, M. 2021. The effect of foliar application of humic acid on increasing *Stevia rebaudiana* tolerance under different irrigation regimes. Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 28(2): 281-297. (In Persian)
 35. Nouri dashlibroon, H., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Mousavizadeh, S.J. and Mirjalili, M.H. 2021. The effect of polyploid induction on morphophysiological changes and essential oil yield of *Lavandula stricta*. Plant Process and Function, 10 (44):103-118. (In Persian)
 36. Mehrnesa Qarehkhan, Hassan Soltanloo, Hassan Mokhtarpour, Sanaz Ramezanzadeh, **Sarah Khorasaninejad (Supervisor of Msc thesis)**, Masoud Mashhadi Akbar Boojar, Elaheh Tavakol. 2021. Effects foliar spraying of abscisic acid and melatonin on morphological characteristics and yields performance *Salicornia europaea* L. under salinity stress. Iranian Journal of Field Crop Science, 52(3). (In Persian)
 37. Gorgini shabankareh, H., **Khorasaninejad, S. (Supervisor of PhD. thesis)**, Soltanloo, H. and Shariati, V. 2021. Investigation of the effects of drought stress and abscisic acid foliar application on yield, physiological and biochemical properties of lavender (*Lavandula angustifolia* cv. Organic Munstead). Journal of Crop Production, 14(2), 65-82. (In Persian)
 38. Zarei, M., Alizadeh, M., **Khorasaninejad, S.** and Khoshal Sarmast, M. (2021). Application of activated charcoal and carbon nanotubes on phenol exclusion from tissue culture media in Grapevine and Paulownia. Journal of Plant Research (Iranian Journal of Biology), 36(1): 46-61.

39. Ghorbani, M., **Khorasaninejad, S. (Supervisor of Msc thesis)**, Hemmati, K. and Ghorbani, Kh. 2022. Feasibility study of domestication of some violets (*Viola* spp.) native to Iran. Iranian Journal of Medicinal and Aromatic Plants Research, 38(4): 632-650. (In Persian)
40. Beheshti, F. and **Khorasaninejad, S.** 2023. Effect of silicon on some growth, physiological and phytochemical properties of *Cannabis sativa* L. in soil and soilless culture. Eco-phytochemical Journal of Medicinal Plants, 10(4): 44-61.

Conference proceedings

(International):

1. **Khorasaninejad, S.**, Gorgini Shabankareh, H. and Sanginabadi, H. Characterization of essential oil composition, phenolic content and antioxidant properties of Different Aerial Parts of wild Lavender (*Lavandula stricta* Del.) from Iran. Second International Symposium on Role of Plant Genetic Resources on Reclaiming Lands and Environment Deteriorated by Human and Natural Action (ISHS). Shiraz University, Shiraz, Iran. 16-20 May 2016.
2. **Khorasaninejad, S.** and Mazloomi Abukhyly, M. The effects of harvest times and fertilizer types on morpho-physiological and biochemical properties of Lavender "right" (*Lavandula stricta* Del.) regeneration from seed and tissue culture. First International Symposium on Horticultural Sciences (ISHS). Tehran, Iran (IrHC2017). 13-16 September 2017.
3. **Khorasaninejad, S.**, Gorgini Shabankareh, H. and Alizadeh Ahmadabadi, A. The effect of humic acid on the some morphological and root phytochemical characteristics of Purple coneflower (*Echinacea purpurea* L.) under Limited irrigation stress after two years. First International Symposium on Horticultural Sciences (ISHS). Tehran, Iran (IrHC2017). 13-16 September 2017.
4. Mansoure Jozay, Hossein Zarei, **Sarah Khorasaninejad**, Taghi Miri. Green roof is a safe way to create food security. 10th International Conference on Agricultural Science, Environment, Urban and Rural Development " in the Georgia in 07 July 2022.
5. Mansoure Jozay, Hossein Zarei, **Sarah Khorasaninejad**, Taghi Miri. Urban gardening on the green wall. 10th International Conference on Agricultural Science, Environment, Urban and Rural Development " in the Georgia in 07 July 2022.
6. Mansoure Jozay, Hossein Zarei, **Sarah Khorasaninejad**, Taghi Miri. Green wall: A gateway to sustainable urban development. 5th National and International Congress on Flower and Ornamental Plants. Shiraz, Iran, September 13, 2022.
7. Mansoure Jozay, Hossein Zarei, **Sarah Khorasaninejad**, Taghi Miri. Green roof is an opportunity to achieve sustainable development. 5th National and International Congress on Flower and Ornamental Plants. Shiraz, Iran, September 13, 2022.

(National):52 pcs

ACADEMIC TEACHING EXPERIENCE:

- Gonbad Kavous University **Aug. 2009 – Aug. 2011**
- Plant production 1, 2
 - Medicinal plants production
- Islamic Azad University of Gorgan, Gorgan, Iran **Feb. 2008 – Feb. 2009**
- Plant production 1, 2
 - Medicinal plants production
- Gorgan University of Agricultural Sciences and Natural Resources **Feb. 2011-Now**
- Principle of Horticultural Crop Breeding (BSc),
 - Production and Exploitation of Medicinal plants (BSc),
 - Breeding of Medicinal plants (BSc, MSc, PhD),
 - Physiology of Stress (MSc), Organic agriculture (BSc, MSc, PhD),
 - Systems of Hydroponic (MSc),
 - Metabolite engineering (PhD),
 - Management of unusual waters (PhD)

SERVICE AND PROFESSIONAL MEMBERSHIP:

- Member of Iranian Society of Horticultural Sciences, Shiraz, Iran.
- Member of Iranian Society of Medicinal Plants, Tehran, Iran.
- Member of International Society of Horticultural Sciences (to 2019).

LANGUAGES:

- English – Advance (IELTS (GT) – Overall 6)
- Farsi – Mother tongue
- Arabic – Elementary