

Maryam Rezayian

e-mail: maryamrezayian@ut.ac.ir

Phone: +98 (021) 6111 3637

Fax: +98 (021) 6649 2992

Education

- Post-doctoral scientist, Tarbiat Modares University, Iran.
- Post-doctoral scientist, University of Tehran, Iran.
- Ph.D., Plant Physiology, University of Tehran, Iran.
- M.Sc., Plant Physiology, University of Tehran, Iran.
- B.Sc., Plant science, University of Tehran, Iran.

Papers in International Journals

1. **Rezayian, M.** and Zarinkamar, F., 2023. Nitric oxide, calmodulin and calcium protein kinase interactions in the response of Brassica napus to salinity stress. *Plant Biology*, 25(3), pp.411-419.
2. **Rezayian, M.**, Ebrahimzadeh, H. and Niknam, V., 2023. Metabolic and physiological changes induced by nitric oxide and its impact on drought tolerance in soybean. *Journal of Plant Growth Regulation*, 42(3), pp.1905-1918.
3. Nasiri, M.H., **Rezayian, M.**, Niknam, V. and Okhovat, A., 2022. Antioxidative and Structural Responses of Melissa officinalis to Salt Stress. *Russian Journal of Plant Physiology*, 69(7), p.152.
4. Sardari, M., **Rezayian, M.** and Niknam, V., 2022. Comparative Study for the Effect of Selenium and Nano-Selenium on Wheat Plants Grown under Drought Stress. *Russian Journal of Plant Physiology*, 69(6), pp.1-12.
5. Zarinkamar, F., Moradi, A., MohamadBagheri, N. and **Rezayian, M.**, 2022. Isoleucine treatment of seeds increased the content of 4-hydroxyisoleucine and affected the anatomy properties of Trigonella persica Boiss. At different developmental stages. *Biologia*, pp.1-16.
6. Zarinkamar, F., **Rezayian, M.** and Medhat, R., 2022. Increase of Trigonelline in Trigonella persica Plant under Drought Stress. *Journal of Botanical Research*, 4(2), pp.19-25.

7. Yektapour, N., **Rezayian, M.**, Niknam, V. and Mirmasoumi, M., 2022. Study of hairy root formation and plant regeneration in *Nicotiana tabaccum*. *Biologia*, 77(5), pp.1295-1303.
8. Zarinkamar, F., **Rezayian, M.** and Medhat, R., 2022. Increase of Trigonelline in *Trigonella persica* Plant under Drought Stress. *Journal of Botanical Research*, 4(2), pp.19-25.
9. Azad, N., **Rezayian, M.**, Hassanpour, H., Niknam, V. and Ebrahimzadeh, H., 2021. Physiological mechanism of salicylic acid in *Mentha pulegium* L. under salinity and drought stress. *Brazilian Journal of Botany*, 44, pp.359-369.
10. **Rezayian, M.**, Ebrahimzadeh, H. and Niknam, V., 2020. Nitric oxide stimulates antioxidant system and osmotic adjustment in soybean under drought stress. *Journal of Soil Science and Plant Nutrition*, 20, pp.1122-1132.
11. Latef, A.A.H.A., Dawood, M.F., Hassanpour, H., **Rezayian, M.** and Younes, N.A., 2020. Impact of the static magnetic field on growth, pigments, osmolytes, nitric oxide, hydrogen sulfide, phenylalanine ammonia-lyase activity, antioxidant defense system, and yield in lettuce. *Biology*, 9(7).
12. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2020. Penconazole and calcium ameliorate drought stress in canola by upregulating the antioxidative enzymes. *Functional Plant Biology*, 47(9), pp.825-839.
13. Kohsari, S., **Rezayian, M.**, Niknam, V. and Mirmasoumi, M., 2020. Antioxidative enzymes activities and accumulation of steroids in hairy roots of *Trigonella*. *Physiology and Molecular Biology of Plants*, 26, pp.281-288.
14. Mottaki, Z., **Rezayian, M.**, Niknam, V., Ebrahimzadeh, H. and Mirmasoumi, M., 2019. Using hairy roots for production of secondary metabolites in *Artemisia*. *Plant Biotechnology Reports*, 13, pp.263-271.
15. Heydari, H., **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2019. Role of Penconazole in salt stress amelioration in *Sesamum indicum* L. *Soil Science and Plant Nutrition*, 65(3), pp.243-250.
16. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2019. Different effects of calcium and penconazole on primary and secondary metabolites of *Brassica napus* under drought. *Physiology and Molecular Biology of Plants*, 25, pp.497-509.
17. **Rezayian, M.**, Niknam, V. and Faramarzi, M.A., 2019. Antioxidative responses of *Nostoc ellipsosporum* and *Nostoc piscinale* to salt stress. *Journal of Applied Phycology*, 31, pp.157-169.
18. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2019. Oxidative damage and antioxidative system in algae. *Toxicology reports*, 6, pp.1309-1313.
19. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2018. Positive effects of Penconazole on growth of *Brassica napus* under drought stress. *Archives of Agronomy and Soil Science*, 64(13), pp.1791-1806.
20. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2018. Penconazole and calcium improves drought stress tolerance and oil quality in canola. *Soil Science and Plant Nutrition*, 64(5), pp.606-615.
21. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2018. Improving tolerance against drought in canola by penconazole and calcium. *Pesticide biochemistry and physiology*, 149, pp.123-136.
22. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2018. Effects of drought stress on the seedling growth, development, and metabolic activity in different cultivars of canola. *Soil Science and Plant Nutrition*, 64(3), pp.360-369.

Papers in National Journals

1. Shaki, F., **Rezayian, M.**, Ebrahimzadeh Maboud, H. and Niknam, V., 2022. Role of triazolic compounds in underlying mechanisms of plant stress tolerance; a review. *Iranian Journal of Plant Physiology*, 12(1), pp.3943-3954.
2. Torabzadeh, D., Hassanpour, H., Asgarpanah, J. and **Rezayian, M.**, 2019. Nanoparticles induced antioxidative compounds in *Matricaria chamomilla*. *Iranian Journal of Plant Physiology*, 9(4), pp.2955-2961.
3. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2019. Stress response in cyanobacteria. *Iranian Journal of Plant Physiology*, 9(3), pp.2773-2787.
4. **Rezayian, M.**, Niknam, V. and Ebrahimzadeh, H., 2018. Differential responses of phenolic compounds of *Brassica napus* under drought stress. *Iranian Journal of Plant Physiology*, 8(3), pp.2417-2425.
5. Mohammadi, B., **Rezayian, M.**, Ebrahimzadeh, H., Hadian, J. and Mirmasoumi, M., 2017. Positive effects of salicylic acid on some biochemical and physiological parameters of *Aloysia citrodora* under drought stress. *Progress in Biological Sciences*, 7(2), pp.147-157.
6. **Rezayian, M.**, Niknam, V. and Faramarzi, M.A., 2017. Effect of salinity on some physiological and biochemical responses in the cyanobacterium *Synechococcus elongatus*. *Progress in Biological Sciences*, 7(1), pp.67-77.

Conferences

- 1 . Penconazole treatment improves drought stress tolerance in *Brassica napus* L. **Maryam Rezayian** , Vahid Niknam and Hassan Ebrahimzadeh. National Congress on Medical Plants.
2. Penconazole alleviates drought stress in canola plants through modifying some physiological and biochemical parameters. **Maryam Rezayian** , Vahid Niknam and Hassan. Ebrahimzadeh. National Congress on Medical Plants.

Books

1. **Chapter title:** Nitric Oxide signaling in plants under drought
2. **Chapter title:** Drought Stress: Involvement of Plant Hormones in Perception, Signaling and Response