

Curriculum Vitae

Roghayeh Mahmoudi

(Ph.D in Horticultural Science)

Personal Information

Gender: Female
Nationality: Iranian
Date of Birth: 10/02/1991
Place of Birth: Tabriz, Iran

Current position:

- **Postdoctoral research fellow:**
- ✓ **Plant Stress Physiology Group:** Department of Agricultural Sciences, Biotechnology & Food Science, Cyprus University of Technology, Limassol, Cyprus (2023-Continue)

Contact Information

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Education

- **Doctor of Philosophy (PhD),** Horticultural Science, Department of Horticultural Sciecn, Faculty of Agriculture, University of Zanjan, Zanjan, Iran, (2018- 2022).

Dissertation: The effect of chitosan coated l-arginine and glycine betaine nanocomposite treatments on attenuating chilling injury and maintaining quality of plum fruit during cold storage

Supervisors: Prof. Vali Rabiei and Dr. Farhang Razavi

- **Master of Science (M.Sc.),** Horticultural Science, Department of Horticultural Sciecn, Faculty of Agriculture, University of Zanjan, Zanjan, Iran, (2015-2017)

Dissertation: Effect of postharvest glycine betaine and hydrogen sulfide treatments on quality and antioxidant properties of hawthorn (*Crataegus monogyna* Jacq.) fruit.

Supervisors: Dr. Farhang Razavi and Prof. Vali Rabiei

- **Bachelor of Science (B.Sc.),** Landscape management, Department of Landscape Science, University of Tabriz, Tabriz, Iran, (2010-2014).

Teaching Experiences

- Plant Physiology (Practical part-B.Sc. level)
- Plant anatomy and systematic (Practical part-B.Sc. level)

Publications

- **Journal papers**

- ✓ Sheikhalipour, M., Mohammadi, S.A., Esmailpour, B., Spanos, A., Mahmoudi, R., Mahdavinia, G., Kahnamoei, A., Antoniou, C, Vachova, P. Brestic, M., Salicky, M., Kulak, M., Gohari, G., and Fotopoulos, V. (2022). Seedling nanopriming with selenium-chitosan nanoparticles mitigate the adverse effects of salt stress by inducing multiple defense pathways in bitter melon plants. *International Journal of Biological Macromolecules*. (Under review).
- ✓ Mahmoudi, R., Razavi, F., Rabiei, V., Palou, L., and Gohari, G. (2022). Postharvest chitosan-arginine nanoparticles application ameliorates chilling injury in plum fruit during cold storage by enhancing ROS scavenging system activity. *BMC Plant Biology*. 22(1), 555. **IF: 5.26**
- ✓ Mahmoudi, R., Razavi, F., Rabiei, V., Gohari, G. and Palou, L. (2022). Application of Glycine betaine coated chitosan nanoparticles alleviate chilling injury and maintain quality of plum fruit. *International Journal of Biological Macromolecules*. 207: 965-977. **IF: 8.02**
- ✓ Gohari, G., Zareei, E., Kulak, M., Labib, P., Mahmoudi, R., Panahirad, S., Jafari, H., Mahdavinia, G., Juárez-Maldonado, A. and Lorenzo, J.M. (2021). Improving the berry quality and antioxidant potential of flame seedless grapes by foliar application of chitosan–phenylalanine nanocomposites (CS–Phe NCs). *Nanomaterials*. 11(9), p.2287. **IF: 5.71**
- ✓ Razavi, F., Mahmoudi, R., Rabiei, V., Aghdam, M. S. and Soleimani, A. (2018). Glycine betaine treatment attenuates chilling injury and maintains nutritional quality of hawthorn fruit during storage at low temperature. *Scientia Horticulturae*. 238, 188-194. **IF: 4.32**
- ✓ Aghdam, M. S., Mahmoudi, R., Razavi, F., Rabiei, V. and Soleimani, A. (2018). Hydrogen sulfide treatment confers chilling tolerance in hawthorn fruit during cold storage by triggering endogenous H₂S accumulation, enhancing antioxidant enzymes activity and promoting phenols accumulation. *Scientia Horticulturae*. 233, 264-271. **IF: 4.32**

- **Conference Paper**

- ✓ Razavi, F., Mahmoud, R., Rabiei, V., Aghdam, M. and Soleimani, A. (2018). Glycine betaine treatment attenuates chilling injury and maintains nutritional quality of hawthorn fruit during storage at low temperature 6th National Congress on Medicinal Plants, May 2017 th 9-10, Tehran, Iran.

Professional Research Experience

- Plant Stress Physiology, Fruit Quality, Nanotechnology

Membership to Scientific Associations

- Member of Iranian Horticultural Society (Iran) (2016-Continue)

Honors and Achievements

- Excellent Ph.D Scholarship, University of Zanjan, Zanjan, Iran (2018-2022).
- Top student at the M.Sc. and Ph.D. Levels at the University of Zanjan, Zanjan, Iran.

References

- Prof. Vasileios Fotopoulos: Department of Agricultural Sciences, Biotechnology and Food Science; Cyprus University of Technology Limassol, Cyprus. Emails: vassilis.fotopoulos@cut.ac.cy
- Prof. Lluís Palou: Postharvest Technology Center (CTP), Valencian Institute of Agrarian Research (IVIA), 46113 Montcada, Valencia, Spain. Email: palou_llu@gva.es
- Dr. Farhang Razavi: Department of Horticultural Science, Faculty of Agriculture, University of Zanjan, Zanjan, Iran. Email: razavi.farhang@znu.ac.ir
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