Curriculum Vitae

-Personal Data:

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-Educational History:

Education-Academic preparation

Major	Degree	University	Country	City	Year
Agricultural Sciences	Bachelor of Science	University of Tabriz	Iran	Tabriz	2007
Horticultural Sciences	Master of Science	University of Tabriz	Iran	Tabriz	2009
Horticultural Sciences	Doctor of Philosophy	University of Tabriz	Iran	Tabriz	2015

-Thesis:

MSc thesis: Effect of topophysis and fruit existence on the differentiation of the primary bud in grapevine (2008-2010).

Ph.D thesis: The study of some biochemical and morphological aspect of floral induction and initiation in apple (2010-2015).

Visiting Researcher:

- ✓ Department Plant Development and Hormone Action, Institute for Plant Molecular and Cell Biology (IBMCP), Valencia, Spain (2014).
- ✓ Laboratory of Plant Ecological and Evolutionary Developmental Biology, Department of Bioresource and Environmental Sciences, Kyoto Sangyo University. Kyoto, Japan (2019).
- ✓ Department of Biology, Chemistry and Pharmacy, Freie Universität Berlin, Germany (2021).

-Publication:

Selected research paper (since 2020):

- ✓ Sheikhalipour, M., **Gohari, G.,** Esmaielpour, B., Panahirad, S., Milani, M.H., Kulak, M. and Janda, T., 2022. Melatonin and TiO2 NPs Application-Induced Changes in Growth, Photosynthesis, Antioxidant Enzymes Activities and Secondary Metabolites in Stevia (*Stevia rebaudiana* Bertoni) Under Drought Stress Conditions. ***Journal of Plant Growth Regulation***, pp.1-18.
- ✓ Mahmoudi, R., Razavi, F., Rabiei, V., Gohari, G., & Palou, L. (2022). Application of Glycine betaine coated chitosan nanoparticles alleviate chilling injury and maintain quality of plum (*Prunus domestica* L.) fruit. ***International Journal of Biological Macromolecules***, 207, 965-977.
- ✓ Kumlay, A. M., Kocak, M. Z., Gohari, G., Nouraein, M., Celikcan, F., Kaysim, M. G., & Kulak, M. (2022). Agronomic traits, secondary metabolites and element concentrations of leaves as a response to single or reiterated drought stress: How effective is the previously experienced stress?. ***Folia Horticulturae***. 25:12-23.
- ✓ Ali, S., Ullah, M. A., Nawaz, A., Naz, S., Shah, A. A., **Gohari, G.,** ... & Razzaq, K. (2022). Carboxymethyl cellulose coating regulates cell wall polysaccharides disassembly and delays ripening of harvested banana fruit. ***Postharvest Biology and Technology,*** *191*, 111978.
- ✓ Agregán, R., Pateiro, M., Bohrer, B. M., Shariati, M. A., Nawaz, A., **Gohari, G.,** & Lorenzo, J. M. (2022). Biological activity and development of functional foods fortified with okra (*Abelmoschus esculentus*). ***Critical Reviews in Food Science and Nutrition,*** 1-16.
- ✓ **Gohari, G.,** Molaei, S., Kheiry, A., Ghafouri, M., Razavi, F., Lorenzo, J. M., & Juárez-Maldonado, A. (2021). Exogenous application of proline and L-cysteine

alleviates internal browning and maintains eating quality of cold stored flat ‘maleki’peach fruits. ***Horticulturae,*** 7(11), 469.

- ✓ Haque, A. M., **Gohari, G.,** El-Shehawi, A. M., Dutta, A. K., Elseehy, M. M., & Kabir, A. H. (2022). Genome-wide identification, characterization and expression profiles of heavy metal ATPase 3 (HMA3) in plants. ***Journal of King Saud University-Science***, 34(1), 101730.
- ✓ **Gohari, G.,** Zareei, E., Kulak, M., Labib, P., Mahmoudi, R., Panahirad, S., ... & 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), 2287.
- ✓ Mohammadi, S. A., Hamian, S., Vahed, M. M., Bandehagh, A., **Gohari, G.,** & Janda, T. (2021). Transcriptional analysis of salt-responsive genes to salinity stress in three salt-tolerant and salt-sensitive Barely cultivars. ***South African Journal of Botany***, *141*, 457-465.
- ✓ Zareei, E., Karami, F., Gholami, M., Ershadi, A., Avestan, S., Aryal, R., ... & Farooq, M. (2021). Physiological and biochemical responses of strawberry crown and leaf tissues to freezing stress. ***BMC Plant Biology***, *21*(1), 1-17.
- ✓ Ganjavi, A. S., Oraei, M., **Gohari**, G., Akbari, A., & Faramarzi, A. (2021). Glycine betaine functionalized graphene oxide as a new engineering nanoparticle lessens salt stress impacts in sweet basil (*Ocimum basilicum* L.). ***Plant Physiology and Biochemistry***, 162, 14-26.
- ✓ Kabir, A. H., Akther, M. S., Skalicky, M., Das, U., **Gohari**, G., Brestic, M., & Hossain, M. M. (2021). Downregulation of Zn-transporters along with Fe and redox imbalance causes growth and photosynthetic disturbance in Zn-deficient tomato. ***Scientific Reports***, 11(1), 1-12.

- ✓ Fatehi, S. F., Oraei, M., **Gohari, G.,** Akbari, A., & Faramarzi, A. (2021). Proline-functionalized graphene oxide nanoparticles (GO–Pro NPs) mitigate salt-induced adverse effects on morpho-physiological traits and essential oils constituents in Moldavian Balm (*Dracocephalum moldavica* L.). ***Journal of Plant Growth Regulation***, 1-15.
- ✓ Mohammadi, M. H. Z., Panahirad, S., Navai, A., Bahrami, M. K., Kulak, M., & **Gohari**, G. (2021). Cerium oxide nanoparticles (CeO_2-NPs) improve growth parameters and antioxidant defense system in Moldavian Balm (*Dracocephalum moldavica* L.) under salinity stress. ***Plant Stress***, 100006.
- ✓ Azimi, F., Oraei, M., **Gohari, G.,** Panahirad, S., & Farmarzi, A. (2021). Chitosan-selenium nanoparticles (Cs–Se NPs) modulate the photosynthesis parameters, antioxidant enzymes activities and essential oils in *Dracocephalum moldavica* L. under cadmium toxicity stress. ***Plant Physiology and Biochemistry***, *167*, 257-268.
- ✓ Sheikhalipour, M., Esmaielpour, B., Behnamian, M., Gohari, G., Giglou, M. T., Vachova, P., ... & Skalicky, M. (2021). Chitosan–Selenium Nanoparticle (Cs–Se NP) Foliar Spray Alleviates Salt Stress in Bitter Melon. ***Nanomaterials,*** 11(3), 684.
- ✓ Antoniou, C., Zarza, X., **Gohari**, G., Panahirad, S., Filippou, P., Tiburcio, A. F., & Fotopoulos, V. (2021). Involvement of Polyamine Metabolism in the Response of *Medicago truncatula* Genotypes to Salt Stress. ***Plants,*** 10(2), 269.
- ✓ Gohari, G., Panahirad, S., Sepehri, N., Akbari, A., Zahedi, S. M., Jafari, H., ... & Fotopoulos, V. (2021). Enhanced tolerance to salinity stress in grapevine plants through application of carbon quantum dots functionalized by proline. ***Environmental Science and Pollution Research,*** *28*(31), 42877-42890.
- ✓ Jafari, H., Hassanpour, M., Akbari, A., Rezaie, J., **Gohari**, G., Mahdavinia, G. R., & Jabbari, E. (2021). Characterization of pH-sensitive chitosan/hydroxypropyl

methylcellulose composite nanoparticles for delivery of melatonin in cancer therapy. ***Materials Letters,*** 282, 128818.

- ✓ Nasr, F., Pateiro, M., Rabiei, V., Razavi, F., Formaneck, S., **Gohari, G.,** & Lorenzo, J. M. (2021). Chitosan-phenylalanine nanoparticles (Cs-Phe Nps) extend the postharvest life of persimmon (*Diospyros kaki*) fruits under chilling stress. **Coatings,** *11*(7), 819.
- ✓ Sheikhalipour, M., Esmaielpour, B., **Gohari, G.,** Haghighi, M., Jafari, H., Farhadi, H., ... & Kalisz, A. (2021). Salt stress mitigation via the foliar application of chitosan-functionalized selenium and anatase titanium dioxide nanoparticles in stevia (*Stevia rebaudiana* Bertoni). ***Molecules,*** 26(13), 4090.
- ✓ **Gohari**, G., Panahirad, S., Sadeghi, M., Akbari, A., Zareei, E., Zahedi, S. M., ... & Fotopoulos, V. (2020). Putrescine-functionalized carbon quantum dot nanoparticles (Put-CQD) effectively prime grape (*Vitis vinifera* cv. Sultana) against salt stress. ***BMC Plant Biology,***19:10-19.
- ✓ Gohari, G., Zareei, E., Rostami, H., Panahirad, S., Kulak, M., Farhadi, H., ... & Fotopoulos, V. (2021). Protective effects of cerium oxide nanoparticles in grapevine (Vitis vinifera L.) cv. Flame Seedless under salt stress conditions. ***Ecotoxicology and Environmental Safety,*** 220, 112402.
- ✓ Masoudniaragh, A., Oraei, M., **Gohari, G.,** Akbari, A., & Faramarzi, A. (2021). Using halloysite nanotubes as carrier for proline to alleviate salt stress effects in sweet basil (*Ocimum basilicum* L.). ***Scientia Horticulturae***, 285, 110202.
- ✓ Filippou, P., Zarza, X., Antoniou, C., Obata, T., Villarroel, C. A., Ganopoulos, I., ... & Fotopoulos, V. (2021). Systems biology reveals key tissue-specific metabolic and transcriptional signatures involved in the response of Medicago truncatula plant genotypes to salt stress. ***Computational and Structural Biotechnology Journal***, 19, 2133-2147.

- ✓ Sogvar, O. B., Rabiei, V., Razavi, F., & **Gohari**, G. (2020). Phenylalanine Alleviates Postharvest Chilling Injury of Plum Fruit by Modulating Antioxidant System and Enhancing the Accumulation of Phenolic Compounds. ***Food Technology and Biotechnology***, 58(4), 433.
- ✓ Banin Sogvar, O., Razavi, F., Rabiei, V., & **Gohari**, G. (2020). Postharvest application of L-cysteine to prevent enzymatic browning of "Stanley" plum fruit during cold storage. ***Journal of Food Processing and Preservation***, 44(10), e14788.
- ✓ Ioannou, A., **Gohari**, G., Papaphilippou, P., Panahirad, S., Akbari, A., Dadpour, M. R., ... & Fotopoulos, V. (2020). Advanced nanomaterials in agriculture under a changing climate: The way to the future?. ***Environmental and Experimental Botany,*** 176, 104048.
- ✓ **Gohari**, G., Safai, F., Panahirad, S., Akbari, A., Rasouli, F., Dadpour, M. R., & Fotopoulos, V. (2020). Modified multiwall carbon nanotubes display either phytotoxic or growth promoting and stress protecting activity in *Ocimum basilicum* L. in a concentration-dependent manner. ***Chemosphere,*** 249, 126171.
- ✓ **Gohari**, G., Alavi, Z., Esfandiari, E., Panahirad, S., Hajihoseinlou, S., & Fotopoulos, V. (2020). Interaction between hydrogen peroxide and sodium nitroprusside following chemical priming of *Ocimum basilicum* L. against salt stress. ***Physiologia Plantarum,*** 168(2), 361-373.
- ✓ **Gohari**, G., Mohammadi, A., Akbari, A., Panahirad, S., Dadpour, M. R., Fotopoulos, V., & Kimura, S. (2020). Titanium dioxide nanoparticles (TiO_2 NPs) promote growth and ameliorate salinity stress effects on essential oil profile and biochemical attributes of *Dracocephalum moldavica*. ***Scientific Reports***, 10(1), 1-14.

References:

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