

PERSONAL INFORMATION:

Full Name: Feryal Varasteh Akbarpour

Nationality: Iranian

Academic Level: Associate professor

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EDUCATION:

- 1994 –1998 B.Sc. (Horticultural Science), Ferdowsi University of Mashhad, Iran.
- 2004–2006 M.Sc. (Horticultural Science), Tarbiat Modares University, Tehran, Iran
- 2006 –2011 PhD (Horticultural Science), Tarbiat Modares University, Tehran, Iran

RESEARCH INTEREST:

- Postharvest physiology and technology of horticultural crops
- Growth and development physiology of temperate, tropical and subtropical fruits
- Biodiversity of fruit trees

PUBLICATION:

Gorgan University of Agricultural Sciences & Natural Resources

Journal Papers

- **Varasteh, F.,** Arzani, K., Zamani, Z.A. and Tabatabaei, S.Z.A. 2008. Physicochemical seasonal changes of pomegranate (*Punica granatum* L.) fruit cv. 'Malas-e-Torsh-e-Saveh' in Iran. Acta Horticulturae, 769: 255-258.
- Mousavi, S., Arzani, K., Alizadeh, S. and **F. Varasteh.** 2009. Seasonal vegetative and fruit growth patterns of some Asian pear (*Pyrus serotina* Rehd.) cultivars under Tehran climatic, Iranian Journal of Horticultural Science and Technology, 10(1): 71-84.
- **Varasteh, F.,** Arzani, K., Zamani, Z.A and Mohseni, A. 2009. Evaluation of the most important fruit characteristics of some commercial pomegranate (*Punica granatum* L.) cultivars of Iran. I

International Symposium on Pomegranate and Minor Mediterranean Fruits, Acta Horticulturae, 818: 103-108.

- **Varasteh, F.**, Arzani, K. and Z. Zamani. 2009, Investigation of physicochemical seasonal changes of pomegranate (*Punica granatum* L.) fruit cv. `Malas-e-Torsh-e-Saveh'. Iranian Journal of Horticultural Science, 39 (1): 29-38.
- **Varasteh, F.** and Arzani, K. 2009. Classification of some Iranian pomegranate (*Punica granatum* L.) cultivars by pollen morphology using scanning electron microscopy, Hort. Environ. Biotechnol. 50: 24-30.
- **Varasteh, F.,** Arzani, K., Barzegar, M. and Zamani, Z. 2012. Changes in anthocyanins in arils of chitosan-coated pomegranate (*Punica granatum* L. cv. Rabbab-e-Neyriz) fruit during cold storage. Food Chemistry, 130: 267-272.
- Babarabie, M., Zareie, H. and **Varasteh, F.** 2014. The effect of cola on postharvest physiological characteristics of cut Alstroemeria. Journal of Ornamental Plants, 4(3): 169-174.
- Keikha, Z., Seifi, E., Varasteh, F. and Ghasemnejad, A. 2015. Investigating some morphological and phytochemical traits of fruit in different genotypes of *Ficus carica* L. Ecophytochemistry. Journal of Medicinal Plants, 3(3): 42-53.
- Keikha, Z., Seifi, E., **Varasteh, F.** and Ghasemnejad, A. 2016. The comparison of morphological and phytochemical characteristics of spring and summer crops in three fig genotypes in Golestan province. Journal of Iranian Plant Ecophysiological Research, 10(40): 62-72.
- Babarabie, M., Zarei, H. and **Varasteh, F.** 2016. Potential of increasing the vase life and improvement of some physiological characteristics of Alstromeria cut flowers by using non-harmful compounds environmentally. Journal of Chemical Health Risks, 6(1): 1-8.
- Babarabie, M., Zarei, H. and **Varasteh, F.** 2016. Physiological response of Gerbera jasmesonni L. cut flowers to the cola and peppermint essence. Iranian Journal of Plant Physiology, 6(3): 1729-173.

- Rahimkhani, R., **Varasteh, F.** and Seifi, E. 2016. Evaluation of genetic diversity in some loquat genotypes based on pomological characteristics in Golestan province. The Journal of Plant Production Research, 23(1): 157-177.
- Rahimkhani, R., **Varasteh, F.** and Seifi, E. 2016. Comparison of fruit biochemical and qualitative attributes of loquat genotypes (*Eriobotrya japonica* L.) of Gorgan. Iranian Journal of Horticultural Science, 48(2): 413-421.
- Dabbagh, M., Mashyekhi, K., Gherekhlo, J. and Varasteh, F. 2017. Study of the effect of potassium permanganate on the biochemical characteristics of onion (*Allium cepa*). The Journal of Plant Production Research, 23(3): 135-149.
- Khosroabadi, H., **Varasteh, F.** and Seifi, E. 2017. Interaction effects of oxalic acid and storage time on some qualitative characteristics of plum fruit cv. Santa Rosa. Journal of Plant Productions, 40(2): 15-25.
- Fathi, M., Zarei, H. and **Varasteh, F.** 2017. The effect of natural and chemical compounds on rooting traits of Bougainvillea (*Bougainvillea spectabilis* L.). Journal of Chemical Health Risks, 7(3): 181-192.
- Babarabie, M., Zarei, H. and **Varasteh, F.** 2017. A study on the feasibility of replacing silver nitrate with natural compounds in preservative solution of Gerbera jamesonii cut flowers. Journal of Plant Physiology and Breeding, 7(1): 75-86.
- **Varasteh, F.**, Arzani, K., Barzegar, M. and Zamani, Z. 2017. Pomegranate (*Punica granatum* L.) fruit storability improvement using pre-storage chitosan coating technique. Journal of Agricultural Science and Technology (JAST), 19: 389-400.
- Babarabie, M., Zarei, H. and **Varasteh, F.** 2018. An investigation into the potential enhancement of vase life and physiological characteristics of gerbera cut flowers by apple fruit extract and rosemary essential oils. The Journal of Animal and Plant Sciences, 28: 527-532.
- Fathi, M., Zarei, H. and **Varasteh, F.** 2018. Rooting of honeysuckle (*Lonicera japonica* L.) under treatment of natural and chemical compounds. The Journal of Plant Production Research, 25(2): 83-97.

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- Feyzi, F., Seifi, E., **Varasteh, F.**, Hemmati, K., and Fereydooni, H. 2018. The study of climatic conditions effect on physicochemical properties of pomegranate fruits cultivars Malas-e-Saveh and Malas-e-Yousef-Khani. Iranian Journal of Horticultural Science, 48(4), 833-843.
- Bekran, A., Seifi, E., and **Varasteh, F.** 2018. A study on the effect of nanosilicate-based coatings on storage life of pomegranate cultivar Malas-E-Saveh. Journal of Food Technology and Nutrition, 16(1), 49-60.
- **Varasteh, F.** and Zamani, S. 2019. The effect of different packaging films on storability and qualitative properties of button mushroom (*Agaricus bisporus*). Iranian Journal of Horticultural Science, 49(4): 1035-1044.
- Rahmani, B., Sharifani, M., Navabpour, S. and **Varasteh, F.** 2020. Cherry senescence – a response to application of ABA and partial sequence alignment of α-mannosidase gene. Acta horticulturae, 1275: 391-398.
- Jafarzadeh, S., Azadbakht, M., **Varasteh, F.** and Vahedi Torshizi, M. 2022. Effects of various coatings and packing materials on persimmon fruit color indexes during quasi-static loading. Iranian Food Science and Technology Research Journal, 18(3): 1-14.
- Jafarzadeh, S., Azadbakht, M., **Varasteh, F.** and Vahedi Torshizi, M. 2022. Using the response surface methodology in the analysis of persimmon fruit color changes in different packaging and coating. Journal of Researches in Mechanics of Agricultural Machinery, 11(1): 95-104.
- **Varasteh, F.** and Zamani, S. 2022. Quality preservation and shelf life extension of broccoli florets using tragacanth gum coating. Journal of Agricultural Science and Technology, 24 (4), 901-912.
- Jafarzadeh, S., Azadbakht, M., **Varasteh, F.** and Vahedi Torshizi, M. 2022. The antioxidant properties of compressed persimmon fruit using putrescine coatings and polyamine films. Agricultural Engineering International: CIGR Journal, 24(2): 207-226.
- Salyari, R., Seifi, E., **Varasteh, F.** and Alizadeh, M. 2022. Effects of pre-harvest salicylic acid treatment on the postharvest quality of peach cultivar Robin. Journal of Chemical Health Risks, 12(3): 355-362.

- Ajami, M., Seifi , E., **Varasteh, F.** and Atashi., S. 2023. Evaluation of the morphological, phytochemical and antioxidant capacity of (*Punica granatum* L.) Toosefid cultivar from Gorgan in comparison with two commercial cultivars. Journal of Medicinal Plants, 10(4): 14-26.

Conference papers (Selected)

- Kiani Feriz, M., **Varasteh Akbarpour, F.**, Davarinejad, G. 2003. Investigation of the planting depth effects of gladiolus corms**.** 2nd applied-scientific seminar on flowers and ornamental plants, Mahallat, Iran.
- **Varasteh, F.,** Arzani, K., Zamani, Z. and S.Z. Tabatabaei. 2005. Investigation of Physical and chemical changes during growth and development of pomegranate *(Punica granatum* L.) fruit cv. 'Malas-e-Torsh-e-Saveh'. 4th Iranian Horticultural Science Congress, Mashhad, Iran.
- **Varasteh, F.,** Arzani, K., Zamani, Z. and M.R. Akrami. 2005. The Effect of N, Zn and B spray on the qualitative and quantitative characteristics of pomegranate (*Punica granatum* L.) fruits cv. 'Malas e Torsh e Saveh'. 4th Iranian Horticultural Science Congress, Mashhad, Iran.
- **Varasteh, F.,** Arzani, K. and Z. Zamani. 2007. Determining of correlations between qualitative and quantitative traits of pomegranate fruit. 5th Iranian Horticultural Science Congress, Shiraz, Iran.
- **Varasteh, F.,** Arzani, K., Barzegar, M. and Zamani, Z.A. 2009. Effect of chitosan coating on storage of pomegranate fruit. 6th International Postharvest Symposium, Antalya, Turkey.
- **Varasteh, F.,** Arzani, K. and Tabatabaei, S.Z. 2009. Palynological evaluation of pomegranate (*Punica granatum* L.) cultivars using scanning electron microscopy. II International Symposium on Pomegranate and Minor Mediterranean Fruits, Dharwad, India.
- **Feryal Varasteh**, Kazem Arzani, Mohsen Barzegar, Zabihollah Zamani & Ali Mohseni. 2010. Evaluation of physicochemical changes of pomegranate fruit during storage period. Regional pomegranate symposium, Saveh, Iran.
- **Varasteh, F.**, Arzani, K., Barzegar, M. and Zamani, Z. 2013. Application of edible coating based on chitosan to extend pomegranate fruit storage life. III International symposium on pomegranate and minor mediterranean climate fruits. 20-24 Sept. 2013, Taian, China.

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- **Varasteh, F.** 2016. Influence of packaging on storage life and quality of fresh broccoli florets. VIII International Postharvest Symposium, 21-24 June 2016, Cartagena, Spain.
- **Varasteh, F.**, Chamani, S. 2017. Postharvest treatment with ferulic acid and apricot gum to preserve quantitative and qualitative characteristics of strawberry fruit cv. Camarosa. First International Horticultural Science Conference of Iran (IrHC2017). 4-7 Sept. 2017, Tehran, Iran.
- Reza arab, S., Taheri, F., **Varasteh, F.** 2017. Application of chitosan to control gray mold (Botrytis cinerea) and blackmold (Alternaria alternate) of strawberry in vitro. First International Horticultural Science Conference of Iran (IrHC2017). 4-7 Sept. 2017, Tehran, Iran.
- **Varasteh. F.** 2018. Advances in pomegranate cultivation in Iran. Green Room Session 2018 International GEA (Geo Eco-Eco Agro) Conference, Book of Abstracts, p. 23, 1-3 November 2020, Podgorica, Montenegro.
- **Varasteh. F.** 2020. Organic pomegranate orchard establishment and management. Green Room Session 2018 GEA (Geo Eco-Eco Agro) International Conference, Book of Abstracts, p. 75, 28-31 May 2020, Podgorica, Montenegro.

Research reports

- **Varasteh, F.** and Zamani, S. 2017. The study of the effect of the packaging on the storability and physicochemical properties of button mushroom (Agaricus bisporus).
- **Varasteh, F.**, Ghasemnejad, A. and Zamani, S. 2019. Effect of packaging film, storage temperature and time on qualitative and biochemical characteristics of dried leaves of rosemary (*rosmarinus Officinalis* L.).
- **Varasteh, F.** and Zamani, S. 2019. Effect of Tragacanth gum edible coating, cellophane and storage time on qualitative and biochemical characteristics of broccoli (*brassica Oleracea* L. Var Italica).
- **Varasteh, F.** and Moemen Yasaghi, Z. 2022. Evaluation of physicochemical and biochemical characteristics of Autumn olive fruit (Elaeagnus umbellate) at different growth and development stages and during storage.

Book chapter coauthor

- Varasteh, F., Alizadeh, M. and Sarkhosh, A. Fruit maturity, harvest methods and technologies, P. 428-455. In: A. Sarkhosh, A. Yavari and Z. Zamani, (Eds), The pomegranate: botany, production and uses, CAB International, UK.

ACADEMIC TEACHING EXPERIENCE:

- **BSc:** Plant anatomy and physiology, General horticulture, Tropical and subtropical zone fruits, principles of horticultural crop production, Nuts, Pomology skills
- **MSc:** Postharvest technology, Fruit tree physiology, Complementary postharvest physiology, Complementary fruit trees, Practices of fruit trees, Basics of organic greenhouse crop production
- **PhD:** Organic production of horticultural crops, Quality in Horticultural Products

SERVICE AND PEROFESSIONAL MEMBERSHIP:

- Member of Iranian Society for Horticultural Science (2019-at present)
- Member of International Society for Horticultural Science (2017-2019)
- Member of the advisory council and representative of Iranian Society for Horticultural Science at Gorgan University of Agricultural Sciences and Natural Resources and universities, research centers and the private sector of Golestan province (2020- at present)
- Executive Secretary of 13th Iranian Horticultural Science Congress

AWARDS:

- Rank 1st among M.Sc. horticultural science students, Tarbiat Modares University, 2006
- Top researcher of plant production faculty, Gorgan University of Agricultural Sciences and Natural Resources
- Top scientific advisor of Horticulture Scientific Association, Gorgan University of Agricultural Sciences and Natural Resources

LANGUAGES: Persian, English