



**Saadat Sarikhani (PhD)**  
*Assistant Professor of Biotechnology  
and Breeding of Fruit crops*  
**Nationality:** Iranian  
**Marital Status:** Married  
**Date of Birth:** 21-Sep-1986

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**H-Index: 10**  
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## EDUCATION

- 2017-2018 Postdoc Fellowship in Biotechnology and Breeding of Nut trees**  
Department of Horticulture, College of Aburaihan, University of Tehran, Tehran, Iran  
**Project Title:** Screening of walnut germplasm in Iran toward introducing drought-tolerant rootstock and late spring- frost resistant cultivars  
**Host Staff:** Prof. K. Vahdati
- 2016 Visiting Scholar in Plant Molecular Physiology**  
Plant Physiology Lab, Department of Plant Science, Wageningen University and Research (WUR), The Netherlands  
**Project Title:** Gene for seed and seedling quality of tomato  
Metabolomics study for walnut leafing date and kernel color  
**Host Staff:** Dr. W. Ligterink
- 2012-2016 Doctor of Philosophy (PhD) in Physiology and Breeding of Fruit trees**  
Department of Horticultural Science, Tarbiat Modares University (TMU), Tehran, Iran.  
**GPA:** 18.80 (on scale of 20).  
**Thesis Title:** "Morphological, biochemical, cytological and molecular evaluation of walnut (*Juglans regia* L.) superior genotypes in Iran".  
**Supervisors:** Prof. K. Arzani
- 2009-2011 Master of Science (MSc) in Physiology and Breeding of Fruit trees.**  
Department of Horticultural Science, Tarbiat Modares University (TMU), Tehran, Iran.  
**GPA:** 19.36 (on scale of 20).  
**Thesis Title:** "Identification of superior walnut (*Juglans regia* L.) genotypes in some regions of Fars, Iran".  
**Supervisors:** Prof. K. Arzani
- 2005-2009 Bachelor of Science (BSc) in Horticultural Science**  
Department of Horticultural Science, Persian Gulf University (PGU), Bushehr, Iran.  
**GPA:** 16.12 (on scale of 20).  
**Thesis Title:** "Effect of shoot pruning and flower thinning on quality and quantity of semi-determinate tomato (*Lycopersicon esculentum* Mill.)".  
**Supervisors:** Dr. A.A. Hesami

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**APPOINTMENTS**

- 2019-Now** Assistant Professor, Department of Horticulture, College of Aburaihan, University of Tehran, Tehran, Iran
- 2019-Now** Director of laboratory of horticulture crops phenotyping and breeding
- 2018-Now** Executive manager of Center of Excellence in Walnut Improvement and Technology (CEWIT)
- 2017-2019** Postdoc researcher, Department of Horticulture, College of Aburaihan, University of Tehran, Tehran, Iran
- 2017-2018** Member of nut trees committee, Deputy of Horticulture, Ministry of Agriculture, Iran
- 2017** Executive director of First International and 10<sup>th</sup> National Horticultural Science Congress of Iran (IrHC2017), Tehran, Iran.
- 2014-2015** Scientific Advisor of Horticultural Deputy in Temperate and Nut Fruits Office, Ministry of Agriculture, Iran
- 2013-2014** Head of Student Society of Horticultural Sciences, Tarbiat Modares University, Tehran, Iran

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**HONORS AND AWARD**

- 2017** Receiving a Postdoc fellowship award (Shahid Chamran Prize) from Iran's National Elite Foundation
- 2016** The first rank of PhD, Department of Horticultural Science, Tarbiat Modares University (GPA: 18.80), 2012-2016.
- 2015** PhD Distinguished Student of Iran
- 2015** PhD student scholarship for a sabbatical leave, Ministry of Science, Research, and Technology of Iran
- 2015** Receiving scholarship award from Iran's National Elite Foundation
- 2015** PhD Distinguished Student of Tarbiat Modares University, Iran
- 2014** Receiving scholarship award from Iran's National Elite Foundation
- 2013** Receiving scholarship award from Iran's National Elite Foundation
- 2013** MSc Distinguished Student of Iran
- 2013** MSc Distinguished Student of Tarbiat Modares University, Iran
- 2013** The good studied award from Alborz Cultural Foundation
- 2011** Member of Talented Student Office of Tarbiat Modares University (TMU) in MSc and PhD.
- 2011** Member of Iran's National Elites Foundation
- 2011** The first rank of MSc, Department of Horticultural Science, Tarbiat Modares University (GPA: 19.36)
- 2011** Receiving a scholarship for PhD by Ministry of Science, Research and Technology, Islamic Republic of Iran, 2012.
- 2009** Diligent BSc student (BSc student) in Faculty of Agriculture and Natural Resources, Persian Gulf University, 2009.

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## RESEARCH INTERESTS

- Nut trees breeding
- The use of biotechnology in breeding of nut trees
- Morphological, biochemical, cytological and molecular evaluation of superior genotypes of nut trees
- Conventional breeding to achieve the desired cultivars and rootstocks of nut trees
- Plant metabolomics study
- Nut trees breeding for tolerance to abiotic stresses especially, drought and salinity and late-spring frost
- Physiology of nut trees

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## RESEARCH EXPERIENCES

- Exploration and exploitation of walnut genetic diversity to release superior genotypes in Iran.
- Morphological, biochemical, cytological and molecular evaluation of plant genetic resources
- Evaluation of walnut genetic diversity to introduce late-spring frost resistance and drought-tolerance genotypes
- Association analysis for important breeding traits in Persian walnut
- Metabolomics analysis of walnut kernel color
- Metabolomics analysis of seed quality-related traits in tomato
- Determine the fruit growth and development pattern
- Integrated evaluation of water harvesting system and reduce evaporation methods for establishment of rainfed orchard.
- The use of date palm waste as cocopeat alternative in hydroponic strawberry production.
- Effect of shoot pruning and flower thinning on quality and quantity of tomato.

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## MEMBERSHIP IN SCIENTIFIC SOCIETIES AND COMMITTEES

- Member of International Society of Horticultural Science (ISHS), Since 2017.
- Member of Agriculture and Natural Resources Engineering Organization, Since 2013.
- Member of Iranian Society of Horticultural Science (IrSHS), Since 2010.
- Member of Scientific and executive committee of 11<sup>th</sup> National Horticultural Science Congress of Iran (IrHC2019), Urmia, Iran, 2019.
- Member of scientific committee of First International and 10<sup>th</sup> National Horticultural Science Congress of Iran (IrHC2017), Tehran, Iran, 2017.
- Member of scientific and executive committee of National Conference on the Employment of Agriculture and Natural Resources Graduates, Tehran, Iran, 2011.

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## COURSES TAUGHT

- Physiology of plant growth and yield (PhD.)
- Breeding of fruit trees (MSc.)
- Complimentary breeding of horticultural crops (MSc.)

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- Practices of fruit trees (MSc.)
  - Fruit production in greenhouse (MSc.)
  - Nursery and production of certified plants (MSc.)
  - Postharvest physiology and technology (BSc.)
  - Plant biotechnology (MSc.)
  - Cytogenetic Lab. (MSc.)
  - Research methodology in biology (MSc.)
  - Temperate-Zone Pomology (BSc.)
  - Principle of horticultural crops breeding (BSc.)
  - Small fruits (BSc.)
  - Introduce on bioinformatics (BSc.)
  - Plant Diseases (BSc.)

### COMPUTER SKILLS

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- **Microsoft Office** (Word, Power point, Excel)
- **Statistical software** (SPSS, SAS, Minitab, R, MSTAT-C, Micro-measurement, FloMax, GeneMaths, MetaboAnalyst)

### INVENTION AND TECHNOLOGY READINESS LEVELS (TRL)

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- Walnut late-leafig and superior genotypes (TRL=6)
- Date-peat (Media for hydroponic cultivation)

### PEER REVIEWER OF SCIENTIFIC JOURNALS

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- Environmental and Experimental Botany
- Acta Horticulturae
- HortScience
- Genetic Resources and Crop Evolution
- Scientia Horticulturae
- Tree Genetics & Genomes
- Notulae Scientia Biologicae
- International Journal of Horticultural Science and technology
- African Journal of Agricultural Research
- Journal of Agricultural Science and Technology
- Journal of Agricultural Science
- Journal of Crop Improvement
- Iranian Journal of Horticultural Sciences
- Iranian Journal of Horticultural Science and Technology

### RESEARCH PROJECTS LEADER

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- 2017-2018** Screening of walnut germplasm in Iran toward introducing drought-tolerant rootstock and late spring- frost resistant cultivars, Iran's National Elite Foundation, Iran
- 2018-2019** Evaluation of foliar application of K-leaf on peach (*Prunus persica*).

- Tessengerlo Group Company, Belgium.
- 2019-2020** Evaluation of walnut germplasm in Iran to release superior, late-leaving and late-spring frost resistance genotypes, Iran National Science Foundation (INSF), Iran
- 2019-2020** Evaluation of KTS and Solupotasse application on potato. Tessenderlo Group Company, Belgium.
- 2019-2020** Evaluation of KTS and K-Leaf foliar application on potato. Tessenderlo Group Company, Belgium.
- 2020-2021** Evaluation of Granupotasse plus Potash mobilizing bacteria (KMB) on potato yield. Tessenderlo Group Company, Belgium.
- 2020-2021** Evaluation of Solupotasse plus Lucky 3 on potato yield. Tessenderlo Group Company, Belgium.
- 2020-2021** Evaluation of TKInt fertilizer application vs sulfuric acid and elemental sulfur on soil pH. Tessenderlo Group Company, Belgium.

### BOOKS AND BOOK CHAPTERS:

- Yadollahi, A., Barzegar, K., **Sarikhani Khorami, S.**, Asadi, A. and Fotuhi, A.R. 2012. Fruit trees frost and its management in orchards. Misagh Farzanegan Press: 238 pp.
- Yadollahi, A., **Sarikhani Khorami, S.** and Kohandel A. 2013. Practical methods of water harvesting for horticultural crops cultivation in rainfed condition. Jahad Daneshgahi press: 197 pp.
- Vahdati, K., Hassani, D., Rezaee, R., Jafari Sayadi, M.H. and **Sarikhani Khorami, S.** 2014. Walnut footprint in Iran. In Avanzato, D., McGranahan, G. H., Vahdati, K., Botu, M., Iannamico, L., and Assche, J.V (Eds.). Following Walnut Footprints (*Juglans regia* L.) Cultivation and Culture, Folklore and History, Traditions and Uses Scripta Horticulturae; 17: 187-201.
- Vahdati K., Arab M.M., **Sarikhani S.**, Sadat-Hosseini M., Leslie C.A., Brown P.J. 2019 Advances in Persian Walnut (*Juglans regia* L.) Breeding Strategies. In: Al-Khayri J., Jain S., Johnson D. (eds) Advances in Plant Breeding Strategies: Nut and Beverage Crops. Springer, Cham.

### PUBLICATION (PAPERS):

- Ghasemi, M., Arzani, K., Yadollahi, A., Ghasemi, S. and **Sarikhani Khorami, S.** 2011. Estimating leaf chlorophyll and nitrogen content of Asian pear (*Pyrus serotina* Rehd.) by CCM-200. Notulae Scientia Biologicae, 3(1): 91-94.
- Hesami, A.A., **Sarikhani Khorami, S.** Hosseini, S.S. 2012. Effect of shoot pruning and flower thinning on quality and quantity of semi-determinate tomato. Notulae Scientia Biologicae, 4 (1): 108-111.
- Hesami, A.A., **Sarikhani Khorami, S.**, Amini, F. and Beyraghdar Kashkooli, A. 2012. Date-peat as an alternative in hydroponic strawberry production. African Journal of Agricultural Research, 7 (23): 3453-3458.
- Yadollahi, A., Teymouri, N., Abdosi, V. and **Sarikhani Khorami, S.** 2012. Evaluation of integration micro-catchments with superabsorbent and organic matter in

- construction of almond orchards in rainfed conditions. Iranian Journal of Water Research in Agriculture, 26: 95-106.
- Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2012. Identification and selection of twelve walnut superior and promising genotypes in Fars Province, Iran. Seed and Plant Improvement Journal, 28 (2): 277-296.
- Sarikhani Khorami, S.**, Arzani, K., Roozban, M.R. and Mirsoleymani, M. 2013. Evaluation of morphological, phenological and pomological diversity of some Persian walnut (*Juglans regia* L.) genotypes north of Fars Province. Iranian Journal of Horticultural Science, 44 (3): 301-313.
- Dehghani, B., Arzani, K. and **Sarikhani Khorami, S.** 2013. Pomological evaluation and seasonal variation in fruit growth and development of some Asian pear cultivars under Tehran environmental conditions. Seed and Plant Improvement Journal, 28 (4) :419-433.
- Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2014. Correlations of certain high-heritability horticultural traits in Persian walnut (*Juglans regia* L.). Acta Horticulturae, 1050: 61-68.
- Hesami, A.A., Pourghayumi, M.R. and **Sarikhani Khorami, S.** 2014. Effect of pruning and nutrition on some quantitative and qualitative characteristics of pomegranate (*Punica granatum* L. cv. Robab). Journal of Horticultural Science, 28 (2): 177-184.
- Yadollahi, A., Mirzaie, L. and **Sarikhani Khorami, S.** 2014. The role of superabsorbent polymers in the reform of irrigation water consumption; a literature review. Water Management Journal, 3(3): 47-61.
- Khajehpour Tadavani, A., Arzani, K., Zargari, H. and **Sarikhani Khorami, S.** 2016. Effect of pollen on quantitative and qualitative characteristics of date fruit (*Phoenix dactylifera* L. cv. 'Shahani'). Seed and Plant Production Journal, 32 (3): 293-310.
- HassanKhah, A., Vahdati, K., Rahemi, M., Hassani, D. and **Sarikhani Khorami, S.** 2017. Persian Walnut phenology: Effect of chilling and heat requirements on budbreak and flowering date. International Journal of Horticultural Science and Technology, 4 (2): 259-271.
- Sarikhani Khorami, S.**, Arzani, K., Karimzadeh, G. and Shojaeiyan, A. 2018. Morphological characteristics, protein contents and fatty acids composition of some walnut (*Juglans regia* L.) superior genotypes in the north of Fars province. Seed and Plant Production Journal, 33 (2): 163-184.
- Khorami, S.S.**, Arzani, K., Karimzadeh, G., Shojaeiyan, A.A. and Ligterink, W. 2018. Genome size: a novel predictor of nut weight and nut size of walnut trees. HortScience, 53 (3): 1-8.
- Arab, M.M., Yadollahi, A., Eftekhari, M., Ahmadi, H., Akbari, M. and **Sarikhani Khorami, S.** 2018. Modeling and optimizing a new culture media for in vitro rooting of G×N15 rootstock using artificial neural network-genetic algorithm. Scientific Reports, 8:9977: 1-18.
- Roointan, R., Yadollahi, A., **Sarikhani Khorami, S.**, Arab, M.M. and Vahdati, K. 2018. Rainfed fruit orchards in sloping lands: soil erosion reduction, water harvesting and fruit production. Acta Horticulturae, 1190, 107-112.
- Vahdati, K., **Sarikhani Khorami, S.** and Arab, M.M. 2018. Walnut: a potential multipurpose



- nut crop for reclaiming deteriorated lands and environment. *Acta Horticulturae*, 1190, 95-100.
- Vahdati, K., Massah Bavani, A., Khosh-khui, M., Fakor, P. and **Sarikhani Khorami, S.** 2018. Land suitability classification for Persian walnut cultivation in Iran using geographic information system (GIS). *Iranian Journal of Horticultural Science and Technology*, 19(4): 403-418.
- Geshnizjani, N., **Sarikhani Khorami, S.**, Willems, L.A.J., Snoek, B., Hilhorst, H.W.M. and Ligterink, W. 2019. The interaction between genotype and nutritional maternal environments affects tomato seed and seedling quality. *Journal of Experimental Botany*, 70 (10): 2905–2918.
- Behrooz, A., Vahdati, K., Rejali, F., Lotfi, M., **Sarikhani, S.** and Leslie C.A. 2019. Arbuscular mycorrhiza and plant growth-promoting bacteria alleviate drought stress in walnut. *HortScience*, 54 (6): 1-6.
- Vahdati, K., Bavani, A.R.M., Khosh-Khui, M., Fakour, P. and **Sarikhani, S.** 2019. Applying the AOGCM-AR5 models to the assessments of land suitability for walnut cultivation in response to climate change: A case study of Iran. *PLOS One*, 14(6): e0218725.
- Sarikhani Khorami, S.** and Vahdati, K. 2019. Determination of Persian walnut yield components and its correlation with phenological, morphological and biochemical traits. *Iranian Journal of Horticultural Science*, 50 (3): 549-560.
- Hassankhah, A., Rahemi, M., Ramshini, H., **Sarikhani, S.** and Vahdati, K. 2020. Flowering in Persian walnut: patterns of gene expression during flower development. *BMC Plant Biology*, 20 (136): 1-10.
- Vahdati K. and **Sarikhani, S.** 2020. An overview of sustainable agriculture development in Iran and in the world. *Journal of Strategic Researches in Agriculture and Natural Resources Sciences*, 5(1): 19-32.
- Rezaei, A., Arzani, K., **Sarikhani, S.** 2020. Morphological evaluation and identification of walnut (*Juglans regia* L.) superior genotypes in north Hamadan province of Iran. *Iranian Journal of Horticultural Science*, 51(2), 441-457.
- Hassani, D., **Sarikhani, S.**, Dastjerdi, R., Mahmoudi, R., Soleimani, A., and Vahdati, K. 2020. Situation and recent trends on cultivation and breeding of Persian walnut in Iran. *Scientia Horticulturae*, 270: 109369.
- Zahedi, S.M., Moharrami, F., **Sarikhani, S.**, Padervand, M. 2020. Selenium and silica nanostructure-based recovery of strawberry plants subjected to drought stress. *Scientific Reports*, 10, 17672.
- Vahdati, K., Arab, M.M. and **Sarikhani, S.** 2020. Advances in biotechnology and propagation of nut trees in Iran. *BIO Web Conference*, 25: 01003.
- Kouhi, M., Rezaei, A., Hassani, D., **Sarikhani, S.** and Vahdati, K. 2020. Phenotypic evaluation and identification of superior Persian walnut (*Juglans regia* L.) genotypes in Mazandaran province, Iran. *Journal of Nuts*, 11 (4):
- Sarikhani, S.**, Vahdati, K., Ligterink, W. 2021. Biochemical properties of superior Persian walnut genotypes originated from southwest of Iran. *International Journal of Horticultural Science and Technology*, 8 (1): 13-24.
- Hajinia, Z., **Sarikhani, S.** and Vahdati, K. 2021. Exploring low-chill genotypes of Persian walnut in west of Iran. *Genetic Resources and Crops Evolution*. Accepted.

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**CONFERENCE PRESENTATIONS:**

- Hesami, A.A., **Sarikhani Khorami, S.**, Hosseini, S.S. and Beyraghdar Kashkooli, A. 2011. Effect of shoot pruning and flower thinning on tomato production under greenhouse condition. *The 5<sup>th</sup> Congress on Advances in Agricultural Research, 18-19 May 2011, University of Kurdistan, Iran.*
- Hesami, A.A. Amini, F., **Sarikhani Khorami, S.** and Beyraghdar Kashkooli. 2011. The use of Date palm waste as cocopeat alternative in hydroponic strawberry production. *The Second National symposium on Agriculture and Sustainable Development; Opportunities and Future Challenges, 2-3 March 2011, Shiraz, Iran.*
- Teymuri, N., Yadollahi, A., and **Sarikhani Khorami, S.** 2011. The optimal and sustainable utilization of water resources with the establishment of rainfed orchards in Kermanshah. *The Second National symposium on Agriculture and Sustainable Development; Opportunities and Future Challenges, 2-3 March 2011, Shiraz, Iran.*
- Dehghani, B., Hashemi Sheykhshabani, A.A., Yadollahi, A. and **Sarikhani Khorami, S.** 2011. Determine the crop compatible with rainfed condition in Doshmanziare, Fars; Practical strategy to the sustainable development of agriculture. *The Second National symposium on Agriculture and Sustainable Development; Opportunities and Future Challenges, 2-3 March 2011, Shiraz, Iran.*
- Yadollahi, A., Arzani, K., Zareh Nahandi, F., Barzegar, K. and **Sarikhani Khorami, S.** 2011. Evaluation of quantitative and qualitative indexes of commercial apple (*Malus domestica* Borkh) cultivars on the MM106 rootstock in Damavand Region. *The 5<sup>th</sup> Congress on Advances in Agricultural Research, 18-19 May 2011, University of Kurdistan, Iran.*
- Yadollahi, A. Barzegar, K., Imani, A. and **Sarikhani Khorami, S.** 2011. Storage and germination of apple pollen grain under *In vitro* condition. *The 5<sup>th</sup> Congress on Advances in Agricultural Research, 18-19 May 2011, University of Kurdistan, Iran.*
- Arzani, K., Dehghani, B. and **Sarikhani Khorami, S.** 2011. Determine the growth pattern of six Asian pear cultivars under Tehran condition. *The 7<sup>th</sup> Congress of Iranian Horticultural Science, 5-8 September 2011, Isfahan, Iran.*
- Hesami, A.A., Susani Tavabeh, M., Estaji, A. and Sarikhani Khorami, S. 2011. Evaluation of wild and domestic mushroom spans production under *In vitro* condition. *The 7<sup>th</sup> Congress of Iranian Horticultural Science, 5-8 September 2011, Isfahan, Iran.*
- Hesami, A.A., Purghayumi, M.R. and **Sarikhani Khorami, S.** 2011. Effect of shoot pruning and NPK fertilizer on quantitative and qualitative characteristics of pomegranate (*Punica granatum* L. cv. Robab). *The First National Congress of pomegranate, 5-6 October 2011, Ferdowsi University of Mashhad, Iran.*
- Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2011. Identification of superior genotypes of fruit trees; The first step in the commercialization of traditional orchards in Iran (A case study; Walnut). *National Conference on the employment of agriculture and natural resources graduates, 23-24 November 2011, Tehran, Iran.*
- Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2011. Evaluate the potential of



horticulture to improve sustainable agriculture in Iran (A case study; Fars Province). Identification of superior genotypes of fruit trees; The first step in the commercialization of traditional orchards in Iran (A case study; Walnut). *National Conference on the employment of agriculture and natural resources graduates, 23-24 November 2011, Tehran, Iran.*

**Sarikhani Khorami, S.**, Hesami, A.A. and Rahnema, H.R. 2011. Challenges and strategies for the optimization of the date palm orchard in order to create sustainable occupation (A case study, Bushehr Province). *National Conference on the employment of agriculture and natural resources graduates, 23-24 November 2011, Tehran, Iran.*

Teymuri, N., Yadollahi, A., Abdosi, V. and **Sarikhani Khorami, S.** 2011. Integrated assessment of water harvesting systems and super absorbent in almond rainfed orchards; A step in the management of water and soil resources. *The 5<sup>th</sup> National Conference on Watershed Management and Soil and Water Resources Management, 29-30 February 2012, Kerman, Iran.*

Hesami, A.A. and **Sarikhani Khorami, S.** 2012. Application of date palm petiole (Date-peat) in hydroponic culture of strawberry (*Fragaria ananassa*). *The 1<sup>th</sup> International and The 4<sup>th</sup> National Congress on Recycling of Organic Waste in Agriculture, 26-27 April 2012, Esfahan, Iran.*

**Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2013. Correlations between Pomological and phenological traits in walnut population of Fars province, Iran. *The 8<sup>th</sup> Congress of Iranian Horticultural Science, 26-29 August 2013, Hamedan, Iran.*

**Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2013. Evaluation of some phenological and pomological traits of eleven walnut superior genotypes in Eghlid region, Fars Province. *The 8<sup>th</sup> Congress of Iranian Horticultural Science, 26-29 August 2013, Hamedan, Iran.*

**Sarikhani Khorami, S.**, Arzani, K. and Roozban, M.R. 2013. Correlations of Certain High-Heritability Horticultural Traits in Persian Walnut (*Juglans regia* L.). *The 7<sup>th</sup> International Walnut Symposium; July 20-23 2013, Shanxi, China.*

**Sarikhani Khorami, S.** and Arzani, K. 2014. The importance of genetic diversity in fruit trees germplasm in breeding programs (A case study: Walnuts). *The third national conference on biodiversity and its impact on agriculture and the environment, 7 August 2014, Urmia, Iran.*

Arzani, K., **Sarikhani Khorami, S.** and Roozban, M.R. 2014. A92, A new walnut promising genotype with superior characteristics. *The 29<sup>th</sup> International Horticultural Congress; 17-22 August 2014, Brisbane, Australia.*

Geshnizjani, N., **Sarikhani Khorami, S.**, Willems, L.A.J., Hilhorst, H.W.M. and Ligterink, W. 2016. Unravelling the parental environment effect in tomato: its effect on primary metabolites in seeds. The annual meeting of Experimental Plant Sciences; 10-11 April 2016; Lunteren, The Netherlands.

Geshnizjani, N., **Sarikhani Khorami, S.**, Willems, L.A.J., Rienstra, J., Ortiz, T., Nijveen, H., Hilhorst, H.W.M. and Ligterink, W. 2016. Genetic and environmental control of seed quality and seedling establishment in tomato. The 5<sup>th</sup> Workshop on the Molecular Aspects of Seed Dormancy and Germination; 31 May- 3 Jun 2016; Simon Fraser

University, Vancouver, Canada.

- Roointan, R., Yadollahi, A., **Sarikhani Khorami, S.**, Arab, M.M. and Vahdati, K. 2016. Rainfed Fruit Orchards in Sloping Lands: Soil Erosion Reduction, Water Harvesting and Fruit Production. International Symposium on Role of Plant Genetic Resources on Reclaiming Lands and Environment Deteriorated by Human and Natural Action; 16-20 May 2016, Shiraz, Iran.
- Vahdati, K. **Sarikhani Khorami, S.** and Arab, M.M. 2016. Walnut: a potential Reclaiming Lands and Deteriorated Environment. International Symposium on Role of Plant Genetic Resources on Reclaiming Lands and Environment Deteriorated by Human and Natural Action; 16-20 May 2016, Shiraz, Iran.
- Vahdati, K., Hajinia, Z. and **Sarikhani Khorami, S.** 2017. Quest for walnut superior genotypes with low chilling requirements in west of Iran. First International and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Sarikhani Khorami, S.** and Arzani, K. 2017. FaBaAg1, a new late-leafing and promising Persian walnut genotype. First International and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Ebtedaei, M., Arzani, K. and **Sarikhani Khorami, S.** 2017. Evaluation of three European pears (*Pyrus communis* L.) cultivars and genotype chilling requirements under controlled environment condition. First International and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Rezaei, A., Arzani, K. and **Sarikhani Khorami, S.** 2017. Preliminary assessment in genetic diversity of mature walnut (*Juglans regia* L.) genotypes in the North of Hamedan province, Iran. First International and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Sarikhani Khorami, S.**, Arzani, K., Karimzadeh, G. and Shojaeiyan, A.A. 2017. Cytological evaluation of some superior Persian walnut (*Juglans regia* L.) genotypes in the Bavanat region of North of Fars province, Iran. First international and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Molajafari, R., Arzani, K., **Sarikhani Khorami, S.** and Mostafavi, M. 2017. Pomological evaluation of some superior walnut genotypes in Taleghan region, Alborz province. First international and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Sarikhani Khorami, S.** and Arzani, K. 2017. Biochemical evaluation of some superior walnut genotypes in the north of Fars province. First international and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.
- Hesami, A., Naderi, M., Jamali, F. and **Sarikhani Khorami, S.** 2017. The effect of postharvest application of salicylic acid on control of *Penicillium* decay in citrus (cv. Sanguinello). First international and 10<sup>th</sup> National Horticultural Science Congress of Iran; 4-7 September 2017; Tarbiat Modares University, Tehran, Iran.

- Rezaei, A., Arzani, K. and **Sarikhani Khorami, S.** 2018. Evaluation of genetic diversity of mature walnut (*Juglans regia* L.) genotypes in the north of Hamadan Province, Iran. The 3<sup>rd</sup> International and 15<sup>th</sup> Iranian Genetic Congress; 13-15 May, 2018; Tehran, Iran.
- Vahdati, K. and **Sarikhani Khorami, S.** 2018. Exploration and Exploitation of walnut genetic diversity to control late-spring frost in walnut trees. III International Symposium on Horticultural Crop Wild Relatives; 15-17 October, 2018; Plovdiv, Bulgaria.
- Vahdati, K., **Sarikhani, S.** and Hossein Nia, M. 2019. Tree nut development in Iran: production and research." 2<sup>nd</sup> European Fruit Research Institutes Network (eufri); Nut Tree Working Group Meeting; 15-17 October 2019, Chisinau, Republic of Moldova.
- Rezaei, A., Arzani, K., **Sarikhani, S.** and Fathi, M. 2019. Evaluation of oil and protein percentage of superior walnut genotypes (*Juglans regia* L.) in Hamadan province, Iran. 11<sup>th</sup> Iranian Horticultural Science Congress, 26-29 August 2019, Urmia, Iran.
- Rezaei, A., Arzani, K. and **Sarikhani, S.** 2019. Identification of superior and late leafing genotypes of walnut (*Juglans regia* L.) in some northern regions of Hamadan, Iran. 11<sup>th</sup> Iranian Horticultural Science Congress. Urmia.
- Yousefi, T., Roozban, M., Aliniaiefard, S. and **Sarikhani, S.** 2019. Alleviation of Drought Stress: Study of the Effect of Foliar Application of Silicon on Drought Stress with Emphasis on Pistachio. 11<sup>th</sup> Iranian Horticultural Science Congress, 26-29 August 2019, Urmia, Iran.
- Vahdati, K. and **Sarikhani, S.** 2019. Strategies of Persian walnut breeding in Iran. 11<sup>th</sup> Iranian Horticultural Science Congress, 26-29 August 2019, Urmia, Iran.
- Fallah, M., Vahdati, K., Hasani, D., Rasouli, M. and **Sarikhani, S.** 2019. Evaluation of quantitative and qualitative characteristics of native walnut genotypes of the south of Hamadan province. 11<sup>th</sup> Iranian Horticultural Science Congress, 26-29 August 2019, Urmia, Iran.
- Fallah, M., Vahdati, K., Hasani, D., Rasouli, M. and **Sarikhani, S.** 2019. Evaluation of fruit characteristics resulting from controlled crosses of new walnut Cultivars. 11<sup>th</sup> Iranian Horticultural Science Congress. Urmia.
- Sarikhani S.**, Karimi, S., Hosseini S. and Ghahremanzadeh R. 2019. Evaluation of Foliar Application of K-Leaf on Quantitative and Qualitative Characteristics of Peach (*Prunus persica* cv. Elberta). 11<sup>th</sup> Iranian Horticultural Science Congress. Urmia.
- Vahdati, K., Jahanbani, R., **Sarikhani, S.** and Hajinia, Z. 2020. High nutritional and therapeutic value of Iranian walnuts. Indian Horticulture Summit-2020, 14-16 February 2020, Ghaziabad, India.
- Vahdati, K., Arab, M.M. and **Sarikhani, S.** 2020. Advances in biotechnology and propagation of nut trees in Iran. Bioengineering in the Organization of Processes Concerning Breeding and Reproduction of Perennial Crops, 6-8 October 2020, Russia.

### DISSERTATION (SUPERVISOR)

- **Reza Hajiebrahimi (MSc):** "Morphological and cytological evaluation of some superior walnut (*Juglans regia* L.) genotypes in Damavand region, Tehran province".

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Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.

- **Maryam Hamidirad (MSc):** "Walnut germplasm evaluation to identify superior genotypes in Joveyn region, Khorasan Razavi". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.
- **Mohsen Zaroni (MSc):** "Walnut germplasm evaluation to introduce superior genotypes in Lorestan province". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.

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## DISSERTATION (ADVISOR)

- **Zahra Hajinia (MSc):** "Identification and evaluation of walnut (*Juglans regia* L.) genotypes in some regions of Ilam, Iran". Department of Horticulture, College of Aburaihan, University of Tehran, 2013-2014.
- **Amin Hassankhah (PhD):** "Morphological and molecular study of Persian walnut flowering". Department of Horticulture, College of Aburaihan, University of Tehran, 2015-2017.
- **Ali Rezaei (MSc):** "Morphological and biochemical evaluation of walnut (*Juglans regia* L.) superior genotypes in some regions of Hamadan province Iran". Department of Horticultural Science, Faculty of Agriculture, Tarbiat Modares University, 2017-2018.
- **Faezeh Moharrami (MSc):** "Efficiency of silicon and selenium nanostructures in alleviating drought stress effects on strawberry (*Fragaria × ananassa* cv. Gaviota)". Department of Horticultural Science, Faculty of Agriculture, Maragheh University, 2018-2019.
- **Tahereh Yousefi (MSc):** "Effects of silicon on improvement of drought tolerance in some *Pistachio* varieties and Baneh". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.
- **Mahboubeh Bagheri (MSc):** "Effects of different light spectra on postharvest quality of cut rose flower". Department of Horticultural Science, Faculty of Agriculture, Persian Gulf University, 2019-2020.
- **Seyed Arash Saeidi (MSc):** "Effect of light spectrum on growth and desiccation responses of tissue cultured walnuts". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.
- **Mozgan Gholampour Shahrestani (MSc):** "Evaluation of drought tolerance in pistachio seedlings using explaining leaf and root characteristics". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.
- **Fahimeh Azizpour Shobi (MSc):** "Effect of plant growth regulators and low temperature on suckering of Anthurium pot plants (*Anthurium andraeanum*)". Department of Horticulture, College of Aburaihan, University of Tehran, 2019-2020.
- **Mohamad Reza Hajiali Gol (MSc):** "Identification of bacterial canker disease in walnut in some regions of Iran". Department of Entomology and Plant Pathology, College of Aburaihan, University of Tehran, 2019-2020.
- **Mehdi Fallah (PhD):** "Selection, hybridization and association mapping for late leafing trait in Persian walnut". Department of Horticulture, College of Aburaihan, University

of Tehran, 2018-2021.

- **Hanieh Heidari (MSc)**: The effect of physiological signals on the induction of frost tolerance in almond flowers. Department of Horticulture, College of Aburaihan, University of Tehran, 2020-2021.
- **Hossein Ahmadi (MSc)**: Assessment of morphological and physiological responses of some walnut genotypes of Iran under salinity stress. Department of Horticulture, College of Aburaihan, University of Tehran, 2020-2021.
- **Simin Haji Ali-Mohammadi (MSc)**: Effect of nano-silicon and chitosan on postharvest life and fruit quality of apple. Department of Horticultural Science, Islamic Azad University, Research Sciences Branch, Tehran, Iran: 2020-2021.
- **Mohammad Gholam Hakimi (MSc)**: Effect of nano-silicon, silicon and peppermint essential oil on the postharvest life of pomegranate. Department of Horticulture Science, Persian Gulf University, Bushehr, Iran: 2020-2021.
- **Najmeh Chatrabbous (PhD)**: Morphological and molecular study and determination of chilling and heat requirement of some late-leaving and early-harvest walnut genotypes. Department of Horticultural Science, Tarbiat Modares University, Tehran, Iran: 2020-2022.
- **Hojjat Rezaei (PhD)**: Morpho-physiological and molecular evaluation of walnut germplasm in Khorasan Razavi province in order to achieve drought-tolerant rootstocks. Department of Horticultural Science, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran: 2020-2022.

## **PARTICIPATE IN WORKSHOP**

- **Molecular Analysis of Transgenic Plant**, University of Tehran, Iran.
- **Real Time PCR Application in Agriculture**, Tarbiat Modares University, Iran.
- **Application of R software in biology science**, Wageningen University, The Netherland.
- **Advanced Bioinformatics**, University of Tehran, Iran.
- **Principle of commercial Micropropagation of Horticultural crops**, Tarbiat Modares University, Iran.
- **Integrated Pest Management (IPM)**, Tarbiat Modares University, Iran
- **Entrepreneurship**, Tarbiat Modares University, Iran
- **Greenhouse Management**, Agriculture and Natural Resources Engineering Organization of Bushehr, Iran.
- **Landscape designing**, Agriculture and Natural Resources Engineering Organization of Bushehr, Iran.