



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE: 5845

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Biomediche, Chirurgiche ed Odontoiatriche**

Scientist- in - charge: **Prof. Marcello Iriti**

**Shadab Faramarzi**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	FARAMARZI
Name	SHADAB

### PRESENT OCCUPATION

Appointment	Structure
Assistant professor	Razi University

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Agricultural engineering/Horticulture	Tarbiat Modares University, Tehran, Iran	2005
PhD	Horticulture science/Pomology	Shahid Chamran university, Ahwaz, Iran	2014
Master	Horticulture science/Pomology	Tarbiat Modares University, Tehran, Iran	2010
Visiting Researcher	Measurement of specific activity of phenylpropanoid pathway enzymes in red-flesh apple	Technische Universität Wien, Vienna, Austria	Jan-Jul 2013

### FOREIGN LANGUAGES

Languages	level of knowledge
English	C1 (understanding, speaking and writing)
Italian	B2 (understanding, speaking and writing)
Persian (Farsi)	Native
Kurdish	Mother tongue



## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2014-2015	PhD scholarship from Ministry of Science, Research and Technology of Iran
2015	Invited speaker, University of Campania, 'Luigi Vanvitelli'

## TRAINING OR RESEARCH ACTIVITY

<p>The research area encompasses the following domains:</p> <ol style="list-style-type: none"><li>1) Horticultural science: actively involved in a diverse range of horticultural activities, including: Possessing good knowledge and expertise in horticultural plants, with a particular focus on fruit trees, Fruit orchard establishment and management, Plant propagation, Tissue culture, Plant breeding and biotechnology, Greenhouse design and management.</li><li>2) Biotechnology: actively engaged in a wide range of biotechnology field, which include: plant DNA and RNA extraction, DNA primer designing, utilizing genetic markers such as SSR, iSSR, and RAPD contributig to the development of novel plant varieties, PCR-based techniques, agarose and polyacrylamide gel electrophoresis, cell culture and flow cytometry.</li><li>3) Biochemistry and chemistry: extensive experience in various biochemistry/chemistry activities, including: Plant compound extraction, Protein (Enzyme) extraction, HPLC, TLC, Spectrometry, TOF Mass Spectrometry, Liquid scintillation counter and TLC analyser.</li><li>4) Other areas of research expertise include investigating biotic and abiotic stress factors affecting plant growth, studying genetic diversity within plant populations, and studying the properties and applications of natural compounds derived from plants.</li></ol>
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## PROJECT ACTIVITY

Year	Project
2013-2015	Phenylpropanoid pathway and its role in tolerance to apple fire blight and scab Technische Universität Wien, Austria; Assoc. prof. Dr. Heidrun Halbwirth
2016-2018	Antibiotic and Chemical Compounds in the Treatment of Witch's Broom Disease of Mexican Lime Leader, funding sources by University of Hormozgan
2013-2021	Gene flow in Caucasian and Iranian apples and centre of domestication NRS - GQE - Le Moulon, France; Dr. Amandine Cornille
2021-present	Different drought stress levels on Almond trees in Kermanshah Razi University of Kermanshah; Assoc. prof. Dr. Isa Arji
2023-present	Chitosan treatment of Tomato plants subjected to drought stress Razi University of Kermanshah and University of Milan; Collaborators: Prof. Dr. Marcello Iriti and Dr. Sara Vitalini



## CONGRESSES AND SEMINARS

Date	Title	Place
10-12.07.2023	5 <sup>th</sup> International Conference on Applied Engineering and Natural Sciences	Konya, Turkey
10.09.2021	Workshop S.I.R.R. 2021: Nuove Frontiere in Radioterapia: Meccanismi Radiobiologici e Prospettive	Naples, Italy
6-8.09.2021	Recent developments in pharmaceutical analysis	Modena, Italy
12-16.08.2018	XXX International Horticultural Congress IHC2018	Istanbul, Turkey
4-7.09.2017	1 <sup>st</sup> International Conference and 10 <sup>th</sup> National Horticultural Science Congress of Iran	Tehran, Iran
16-20.05.2016	International Symposium on Role of Plant Genetic Resources on Reclaiming Lands and Environment Deteriorated by Human and Natural Action	Shiraz, Iran
26-29.08.2014	18 <sup>th</sup> National and 6 <sup>th</sup> International Congress of Biology in Iran	Karaj, Iran
23.11.2011	National Conference on Occupation of Agriculture Graduate Community	Theran, Iran
5-8.09.2011	7 <sup>th</sup> Horticultural Conference	Isfahan, Iran
9-10.11.2011	1 <sup>st</sup> Barberry and Jujube National Conference	Birjand, Iran
28.02 & 01.03.2010	1 <sup>st</sup> Scientific Conference on Medicinal Plant Industry Development in Iran	Tehran, Iran
22-24.05.2010	11 <sup>th</sup> Genetic Congress in Iran	Tehran, Iran

Articles in reviews
23. Bina H. Yousefzadeh H. Venon A. Remoué C. Rousselet A. Falque M. <b>Faramarzi S.</b> ... Cornille A (2022). Evidence of an additional centre of apple domestication in Iran, with contributions from the Caucasian crab apple <i>Malus orientalis</i> Uglitzk. to the cultivated apple gene pool. <i>Molecular Ecology</i> , 31(21), 5581-5601. DOI: <a href="https://doi.org/10.1111/mec.16667">https://doi.org/10.1111/mec.16667</a>
22. Pacifico S. Bláha P. <b>Faramarzi S.</b> Fede F. Michaličková K. Piccolella S. ... Manti L (2022). Differential Radiomodulating Action of <i>Olea europaea</i> L. cv. Caiazzana Leaf Extract on Human Normal and Cancer Cells: A Joint Chemical and Radiobiological Approach. <i>Antioxidants</i> , 11(8), 1603. DOI: <a href="https://doi.org/10.3390/antiox11081603">https://doi.org/10.3390/antiox11081603</a>
21. <b>Faramarzi S*</b> . Boroomandan P. Arji I (2022). Rapid advanced in agricultural production and development of modern orchards establishment: a bright prospect for horticulture development in Kermanshah province, Iran. <i>Central Asian Journal of Plant Science Innovation</i> , 2(1), 13-18. DOI: <a href="https://doi.org/10.22034/CAJPSI.2022.01.02">10.22034/CAJPSI.2022.01.02</a>
20. <b>Faramarzi, S*</b> . Hutabarat OS (2021). Zinc Sulfate and Bordeaux Mixture Treatment Towards Witches' Broom Disease of Mexican Lime in South of Iran. <i>Agrotechniques in Industrial Crops</i> , 1(2), 85-90. DOI: <a href="https://doi.org/10.22126/ATIC.2021.6526.1016">10.22126/ATIC.2021.6526.1016</a>



19. <b>Faramarzi S.</b> , Piccolella S., Manti L., Pacifico S (2021). Could Polyphenols Really Be a Good Radioprotective Strategy? <i>Molecules</i> , 26(16), 4969. DOI: <a href="https://doi.org/10.3390/molecules26164969">10.3390/molecules26164969</a>
18. Cebulj A., Mikulic-Petkovsek M., Lucaciu CR., Veberic R., Marinovic S., Kolarek M., <b>Faramarzi S.</b> ... & Slatnar A (2021). Alteration of the phenylpropanoid pathway by watercore disorder in apple ( <i>Malus x domestica</i> ). <i>Scientia Horticulturae</i> , 289, 110438. DOI: <a href="https://doi.org/10.1016/j.scienta.2021.110438">10.1016/j.scienta.2021.110438</a>
17. Seyed, R. H., Rastegar, S., & <b>Faramarzi, S.</b> (2021). Impact of edible coating derived from a combination of Aloe vera gel, chitosan and calcium chloride on maintain the quality of mango fruit at ambient temperature. <i>Journal of Food Measurement and Characterization</i> , 1-11. DOI: <a href="https://doi.org/10.1007/s11694-021-00861-6">10.1007/s11694-021-00861-6</a>
16. Landi N., Piccolella S., Ragucci R., <b>Faramarzi Sh.</b> , Clemente A., Papa S., Pacifico S., Di Maro A (2020). Vaalle Agricola chickpeas: nutritional profile and metabolomics traits of a typical landrace legume from Southern Italy. <i>Foods</i> . DOI: <a href="https://doi.org/10.3390/foods10030583">10.3390/foods10030583</a>
15. Piccolella S., Crescente G., <b>Faramarzi S.</b> , Formato M., Pecoraro MT., Pacifico S (2020). Polyphenols vs. coronaviruses: how far are we forward? <i>Molecules</i> . 25, 4103. DOI: <a href="https://doi.org/10.3390/molecules25184103">10.3390/molecules25184103</a>
14. Fakhar Z., Faramarzi B., Pacifico S., <b>Faramarzi S*</b> (2020). Anthocyanin derivatives as potent inhibitors of SARS-CoV-2 main protease: An in-silico perspective of therapeutic targets against COVID-19 pandemic. <i>Journal of Biomolecular Structure and Dynamics</i> . 1-13. DIO: <a href="https://doi.org/10.1080/07391102.2020.1801510">10.1080/07391102.2020.1801510</a>
13. <b>Faramarzi Sh*</b> , Faramarzi B., Hasanzadeh Khankahdani H (2018,). Study of erythromycin and copper sulfate effects in controlling witches' broom disease of lime (WBDL). <i>Acta Horticulturae</i> . 1299, 193-196. DOI: <a href="https://doi.org/10.17660/ActaHortic.2020.1299.29">10.17660/ActaHortic.2020.1299.29</a>
12. <b>Faramarzi Sh*</b> , Hasanzadeh Khankahdani H (2018). Foliar application of IBA and GA3 on Mexican lime trees infected with witches' broom disease. <i>Acta Horticulturae</i> . 1299, 179-182. DOI: <a href="https://doi.org/10.17660/ActaHortic.2020.1299.27">10.17660/ActaHortic.2020.1299.27</a>
11. <b>Faramarzi S*</b> (2018). Study of phytochemical traits and antioxidant properties of Indian jujube ( <i>Ziziphus mauritiana</i> ) fruits. <i>Journal of Horticulture Science</i> . 32(2), 327-334. (English abstract) DOI: <a href="https://doi.org/10.22067/JHORTS4.V32I2.69082">10.22067/JHORTS4.V32I2.69082</a>
10. <b>Faramarzi Sh*</b> , Halbwirth H., Yadollahi A (2017). Enzymes activity of phenylpropanoid pathway in red flesh apples. <i>Acta Horticulturae</i> . 1315, 125-132. DOI: <a href="https://doi.org/10.17660/ActaHortic.2021.1315.19">10.17660/ActaHortic.2021.1315.19</a>
9. <b>Faramarzi Sh*</b> , Pacifico S (2017) Evaluation of total phenol content and antioxidant capacity of Indian jujube. <i>Acta Horticulturae</i> . 1315, 655-660. DOI: <a href="https://doi.org/10.17660/ActaHortic.2021.1315.96">10.17660/ActaHortic.2021.1315.96</a>
8. <b>Faramarzi S*</b> ; Yadollahi A.; Karimzadeh, G. (2017). Flow cytometric DNA c-value and ploidy variation in some Iranian apple cultivars. <i>Journal of Horticulture Science</i> . (30): 694-700. (English abstract) DOI: <a href="https://doi.org/10.22067/JHORTS4.V0I0.43387">10.22067/JHORTS4.V0I0.43387</a>
7. Hutabarat OS., Flachowsky H., Regos I., Miosic S., Kaufmann Ch., <b>Faramarzi Sh.</b> , Alam MZ., Gosch Ch., Hanke MV., Treutter D., Stich K., Halbwirth H (2016). Transgenic apple plants overexpressing the chalcone 3-hydroxylase gene of <i>Cosmos sulphureus</i> show increased levels of 3-hydroxyphloridzin and reduced susceptibility to apple scab and fire blight. <i>Planta</i> . 243(5), 1213-1224. DOI: <a href="https://doi.org/10.1007/s00425-016-2475-9">10.1007/s00425-016-2475-9</a>
6. <b>Faramarzi Sh.</b> , Pacifico S., Yadollahi A., Lettieri A., Nocera P., Piccolella S (2015). Red fleshed Apples: Old Autochthonous Fruits as a Novel Source of Anthocyanin Antioxidants. <i>Plant Foods for Human Nutrition</i> . DOI: <a href="https://doi.org/10.1007/s11130-015-0497-2">10.1007/s11130-015-0497-2</a>



5. <b>Faramarzi Sh.</b> , Yadollahi A. Barzegar M. Karimzadeh Gh (2015). Comparison of most quality characteristics of red flesh apples and some Golab cultivars. <i>Journal of Crops Improvement</i> . 17(3), 729-741. (English abstract) DOI: <a href="https://doi.org/10.22059/jci.2015.54382">https://doi.org/10.22059/jci.2015.54382</a>
4. <b>Faramarzi Sh.</b> , Yadollahi A. Barzegar M. Sadraei K. Pacifico S. Jemric T (2014). Comparison of phenolic compounds and antioxidant activity between some native Iranian apples and standard cultivar 'Gala'. <i>Journal of Agricultural Science and Technology</i> . 16:1601-1611. DOI: <a href="https://doi.org/10.1001.1.16807073.2014.16.7.1.7">20.1001.1.16807073.2014.16.7.1.7</a>
3. <b>Faramarzi Sh.</b> , Yadollahi A. Soltani BM (2014). Preliminary Evaluation of Genetic Diversity among Iranian Red Fleshed Apples Using Microsatellite Markers. <i>Journal of Agricultural Science and Technology</i> . 16: 373-384. DOI: <a href="https://doi.org/10.1001.1.16807073.2014.16.2.8.4">20.1001.1.16807073.2014.16.2.8.4</a>
2. <b>Faramarzi Sh.</b> , Yadollahi A. Hajnajari H. Shojaeian A. Damyar S (2014). Study of morphological characteristics of Iranian red-fleshed apples vs. some Iranian landraces and commercial cultivars. <i>Journal of Crops Improvement</i> . 16:1-10. (English abstract) DOI: <a href="https://doi.org/10.22059/jci.2014.51938">https://doi.org/10.22059/jci.2014.51938</a>
1. Mahmoudi E. Yadollahi A. Mohammad Soltani B. Dahaghin L. <b>Faramarzi S</b> (2014). Analysis of genetic variation among red flesh apple genotypes using microsatellite markers and polymorphism of MYB10 gene. <i>Modern Genetics Journal</i> . 37: 143-153. (in Persian) DOI: <a href="https://doi.org/10.1001.1.20084439.1393.9.2.3.4">20.1001.1.20084439.1393.9.2.3.4</a>

Congress proceedings
<b>Faramarzi S.</b> Akbari L. Amerian M. Mahmodi N. Cheqamirza K. Vitalini S. Iriti M. Chitosan Effect on Morphology of Tomato under Drought Stress, 5 <sup>th</sup> International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 2023.
<b>Faramarzi S.</b> Pacifico S. Manti L. Esposito A. Radioprotective effect of an Olea europea L. cv. Caiazzana extract towards HUVEC cells, Recent developments in pharmaceutical analysis, Modena, Italy, 2021.
<b>Faramarzi S.</b> Manti L. An olive leaf alcoholic extract exhibits differential radiomodulating properties on cancer and normal cells in vitro. Workshop S.I.R.R. 2021: Nuove Frontiere in Radioterapia: Meccanismi Radiobiologici e Prospettive, Naples, Italy, 2023.
<b>Faramarzi sh.</b> Non-principled competition, a serious threat to the water crisis, 1 <sup>st</sup> international conference and 10 <sup>th</sup> domestic horticulture conference, Tehran, Iran, 2017.
<b>Faramarzi Sh.</b> Yadollahi A. Study of anthocyanin profiling and color in two Iranian red fleshed apples, 18 <sup>th</sup> National and 6 <sup>th</sup> International Congress of Biology, Karaj, Iran, 2014.
<b>Faramarzi Sh.</b> Yadollahi, A. A survey concerning agriculture educational system, 1 <sup>st</sup> Congress of Graduated Agriculture student, Tehran, Iran, 2011.
<b>Faramarzi Sh.</b> Yadollahi A. Determination of appropriate areas for rainfed barberry according to the most important pedoclimatic conditions, 1 <sup>st</sup> Jujube and barberry congress, Birjand, Iran, 2011.
<b>Faramarzi Sh.</b> Yadollahi A. Introduction of red- flesh apple as a new medicinal plant, 1 <sup>st</sup> Medicinal plants congress, Tehran, Iran, 2010.
<b>Faramarzi Sh.</b> Yadollahi A. Soltani BM. Microsatellite Markers for Determination of Genetic Diversity in Apple, 11 <sup>th</sup> Genetic Congress, Tehran, Iran, 2010.
<b>Faramarzi Sh.</b> Yadollahi A. Soltani BM. Genetic diversity in apple using microsatellite markers, 1 <sup>st</sup> Medicinal plants congress, Tehran, Iran, 2010.



## OTHER INFORMATION

### 1) Work experiences:

- **Sep.2020-Present:** Assistant professor, Campus of Agriculture and natural resources, Razi University of Kermanshah, Iran.

Delivered scheduled lectures for BSc: General horticulture, Seed technology and breeding, Pomology skills (1,2), Horticultural plants Breeding, Management of greenhouse.

- Sep.2016- Sep.2019: Assist. Prof., Faculty of Agriculture, University of Hormozgan, Iran.

Delivered lectures for:

BSc: General horticulture, Temperate Zones Fruits (Pomology), Small fruits, Tropical and subtropical fruit trees, Postharvest physiology, Turf grass culture, Plant propagation, Landscape designing.

MSc: Fruit trees breeding, Greenhouse technology and Hydroponic culture.

- Sep.2019- Jan.2020: Invited lecturer, University of Sulaimani, Kurdistan region, Iraq.

Delivered lectures for PhD: Fruit trees breeding

- Sept. 2010 -Jan.2012: Lecturer, Azad University of Roudehen, Iran.

Delivered lectures for: BSc: Plant propagation; Temperate zone fruit trees.

- Sep.2014- Jul.2016: Lecturer, campus of Agriculture, Razi University, Kermanshah, Iran.

Delivered lectures for: BSc: General horticulture, General agronomy

- Sep.2005-Sep.2006: Insurance consultant of Agricultural Bank, Kermanshah, Iran.

Area of collaboration: Walnut and pomegranate orchards insurance

- Sep.2005- Sep.2006: Consultant engineer, Agricultural Service Company, Kermanshah, Iran.

Area of collaboration: Orchard establishment, Orchard management

### 2) International collaborations:

- Technische Universität Wien, Austria (2013-2021)

- University of Sulaimani, Kurdistan region, Iraq (2019-2020)

- NRS - GQE - Le Moulon, France (2013-2021)

- University of Campania Luigi Vanvitelli, Italy (2011-2021)

### 3) Software skills:

- Statistical software: SAS, SPSS, Excel.

- Genetic software: NTSyse, POPGENE, Gen ALEx, Primer designer.

- Others: Real time landscaping, Chemdraw.

### 4) Memberships:

- International Society for Horticultural science (ISHS)

- Iranian Society for Horticultural Science

- Reviewer of Journal of *Fruits*

- Former executive manager of Journal *Agrotechniques in Industrial Crops*

- Reviewer of Journal of *Agrotechniques in Industrial Crops*

- Reviewer of Journal of *Iranian Journal of Seed Science and Technology*

- Editorial board of Journal of Horticulture (ISSN: 2376-0354)

### 5) Workshops:

- Managing bibliography with EndNote and Mendeley (Instructor)

- Terrarium and Dish Garden (Organizer)

- Phenylpropanoid pathway enzymes extraction and measurement (Instructor)

- Plant tissue culture



- Application of nuclear technology and molecular markers in agricultural and biological sciences

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Place and date: Caserta, 21.08.2023