

In the Name of God



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Personal Information	Seminars and Conferences Attained
Educational Records	Papers Presented in Conferences
Academic Experiences	Research Students Supervised
Membership of Scientific Societies	Research Students Co-Supervised
Referee for Journal Articles Submitted to	Courses Taught
Research Interests & Projects Performed	Referees
Publications and Journal Papers	Others

I. Personal Information:

Name: Ghasem

Family Name: Karimzadeh

Date of Birth: 1960

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Google Scholar Citations:

<https://scholar.google.com/citations?user=VduY5OUAAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Ghasem_Karimzadeh

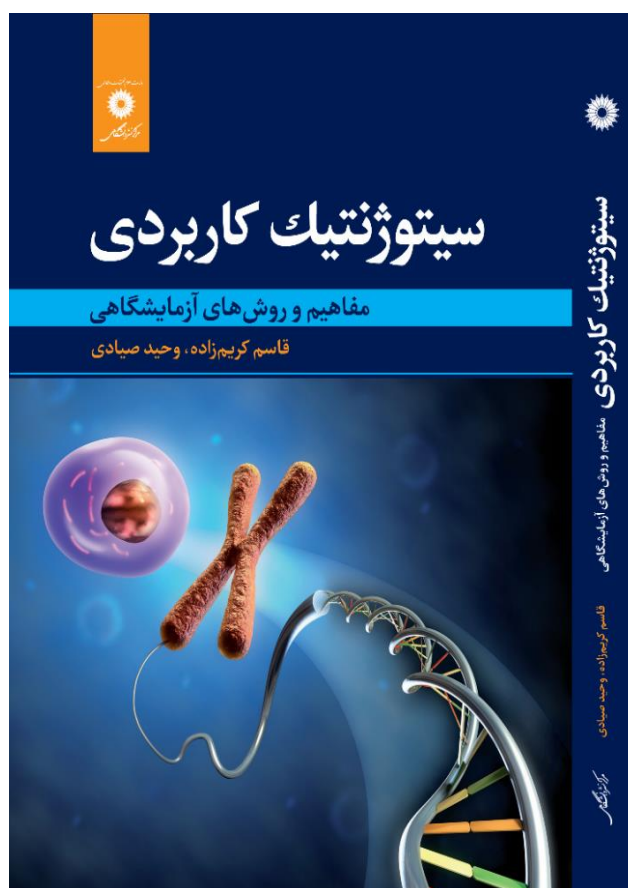
LinkedIn: https://www.linkedin.com/feed/?trk=guest_homepage-basic_nav-header-signin

Loop profile: 413046: <https://loop.frontiersin.org/people/413046/overview>

Mendeley: <https://www.mendeley.com/settings/account/>

II. Educational Records:

Degree	Institution	Place	Field	Date
B.Sc.	Univ. of Tehran	Iran	Agronomy & Plant Breeding	1985
M.Sc.	Gödöllő Univ. of Agricultural Sciences	Hungary	Advanced Genetics & Plant Breeding	1992
Ph.D.	Cardiff Univ.	UK	Plant Cell Biology	1996



Product Details

English title of book:

**Applied Cytogenetics:
Concepts and Laboratory Methods**

Authors: Ghasem Karimzadeh, Vahid Sayadi

Paperback: 353 pages

Publisher: [Iran University Press](#), Tehran, Iran

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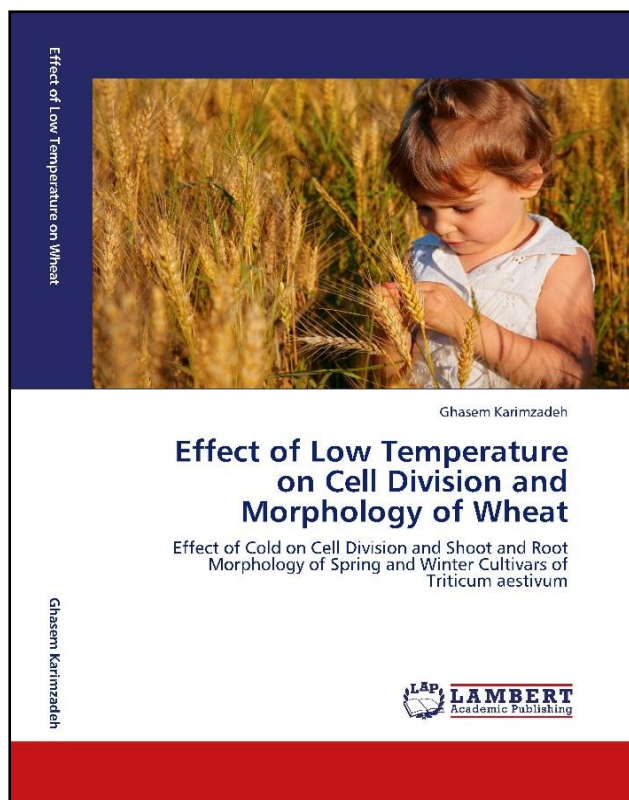
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<https://store.scinito.com/b/3161317439>

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Product Details

Title: Effect of Low Temperature on Cell Division and Morphology of Wheat

Author: Ghasem Karimzadeh

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III. Academic Experiences:

- 1) Professor, Department of Plant Genetics and Breeding, College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran (Nov 2019 – Present)
- 2) Associate professor, Department of Plant Genetics and Breeding, College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran (Oct 2005 – Nov 2019)
- 3) Assistant professor, Department of Plant Breeding and Biotechnology, College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran (Mar 1997 – Oct 2005)
- 4) Head of Department of Plant Genetics and Breeding, College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran (Aug 2017 – Aug 2019)
- 5) Head of Department of Plant Breeding and Biotechnology, College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran (Dec 2013 – Jan 2016)
- 6) Member of Doctoral Thesis Examination Committee at the College of Agriculture, [Tarbiat Modares Univ.](#)
- 7) Member of Doctoral Thesis Examination Committee at the College of Agriculture, [Univ. of Tehran](#)
- 8) Member of Doctoral Comprehensive Examination Committee at the College of Agriculture, [Tarbiat Modares Univ.](#)
- 9) Member of M.Sc. Thesis Examination Committee at the College of Agriculture, [Tarbiat Modares Univ.](#)
- 10) Member of Research Committee at the College of Agriculture, [Tarbiat Modares Univ.](#)

- 11) Member of National Research Projects Advisory Committee in Agricultural Sector
- 12) Establishment of Cytogenetics Laboratory in the College of Agriculture, [Tarbiat Modares Univ.](#)
- 13) Representative of Post-Graduate Study at the College of Agriculture, [Tarbiat Modares Univ.](#)
- 14) Critiquing several books for publication
- 15) Member of Editorial Board of Journal of Genetic Research, Forage and Forest Breeding, Tehran, Iran
- 16) Member of Editorial Board of Journal of Iranian Journal of Field Crop Science, [Tarbiat Modares Univ.](#) Iran.

IV. Membership of Scientific Societies:

- 1) Iranian Society of Crop Production and Breeding (I.S.C.P.B.)
- 2) Iranian National Society of Biotechnology
- 3) Biotechnology Society of Iranian Post-Graduates, UK
- 4) Iranian Genetics Society (I.G.S.)

V. Referee for Congress/Journal Articles Submitted to:

- 1) [New Phytologist](#), IF: 7.21, Ranking: JCR 2015, top 2.39% (Plant Sciences), Wiley-Blackwell, USA
- 2) [HortScience](#), American Society for Horticultural Science, USA
- 3) [BMC Plant Biology](#), ISSN: 1471-2229, Springer Nature, Q1 Journal, UK.
- 4) [Industrial Crops & Products](#), Q1, Category (Agronomy, Agricultural Engineering), Elsevier, Amsterdam, The Netherlands.
- 5) [CYTOLOGIA](#), International Society of Cytology, The Japan Mendel Society
- 6) [International Journal of Horticultural Science and Technology](#), e-ISSN: 2588-3143, [Univ. of Tehran](#), Tehran, Iran
- 7) [Agrotechniques in Industrial Crops](#), Department of Plant Production and Genetics, Razi University, Kermanshah, Iran
- 8) [Botanical Journal of Iran](#), Ministry of Agriculture Jihad, Tehran, Iran
- 9) [Journal of Agricultural Science and Technology \(JAST\)](#), Faculty of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran, in English
- 10) [Journal of Sciences, Univ. of Tehran](#), Tehran, Iran, in English
- 11) [1st International Conference & 10th National Horticultural Science Congress of Iran \(IrHC2017\), 4-7 Sep, 2017, Tarbiat Modares Univ., Tehran, Iran](#)
- 12) Journal of Modares Agricultural Science, Faculty of Agriculture, [Tarbiat Modares Univ.](#), Tehran, in Persian

- 13) [Iranian Journal of Agriculture Science](#), Univ. College of Agriculture and Natural Resources, Univ. of Tehran, Karaj, Iran, in Persian
- 14) [Iranian Journal of Field Crop Science](#), Univ. College of Agriculture and Natural Resources, Univ. of Tehran, Karaj, Iran, in Persian
- 15) [Iranian Journal of Horticultural Sciences](#), Univ. College of Agriculture and Natural Resources, Univ. of Tehran, Karaj, Iran, in Persian
- 16) [Iranian Journal of Horticultural Science and Technology](#), Society of Iranian Horticultural Science, Faculty of Agriculture, [Shiraz Univ.](#), Shiraz, Iran, in Persian
- 17) [Journal of Agricultural Science](#), Faculty of Agriculture, Univ. of Tabriz, Tabriz, Iran, in Persian
- 18) [Agricultural Sciences and Technology](#), Faculty of Agriculture, Ferdowsi Univ. of Mashhad, Mashhad, Iran, in Persian
- 19) [Agricultural Research](#), Faculty of Agriculture, Bu-Ali Sina Univ., Hamadan, Iran, in Persian
- 20) [Seed and Plant](#), Seed and Plant Improvement Institute (SPII), Karaj, Iran, in Persian
- 21) [Journal of Agricultural Sciences and Natural Resources](#), Gorgan Univ. of Agriculture and Natural Resources, Gorgan, Iran, in Persian
- 22) [Electronic Journal of Crop Production \(EJCP\)](#), Gorgan Univ. of Agriculture and Natural Resources, Gorgan, Iran, in Persian
- 23) [Modern Genetics Journal](#), Iranian Genetics Society
- 24) [Pajouhesh-va-Sazandegi](#), Ministry of Agricultural Jihad, Tehran, Iran, in Persian
- 25) [Journal of Medicinal Plants](#), Iranian Academic Center for Education, Culture & Research, Tehran, Iran, in Persian
- 26) [Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research](#), Research Institute of Forests and Rangelands of Iran, Tehran, Iran, in Persian
- 27) [Iranian Journal of Botany](#), Research Institute of Forests and Rangelands of Iran, Tehran, Iran, in Persian
- 28) 7th Iranian Congress on Crop Production and Plant Breeding, Seed and Plant Improvement Institute (SPII), Karaj, Iran, 24-26 Aug, 2002, in Persian
- 29) 1st International Wheat Congress, Tehran, Iran, 6-9 Dec, 2002, in Persian
- 30) 8th Iranian Genetics Congress, Tehran, Iran, 20-22 May, 2003, in Persian
- 31) 8th Iranian on Crop Production and Breeding Congress, Univ. of Guilan, Rasht, Iran, 25-27 Aug, 2004, in Persian
- 32) 6th National Biotechnology Congress of Iran, Milad Tower Conference Hall, Tehran, Iran, 13-15 Aug, 2009, in Persian

Vi. Research Interests & Projects Performed:

Research Interests:

- 1) Cytogenetics (Karyomorphology)
- 2) Cytogenomics (Flow cytometry, genome size analysis)
- 3) Ploidy level and secondary metabolites in medicinal plants
- 4) Plant response to abiotic environmental stresses
- 5) Cell cycle and transformation methods

Projects Performed:

- 1) Cytogenetic and Metabolome Study of Iranian Endemic Savory (*Satureja* spp.) Medicinal Plant in Response to Drought Stress. Project Manager, 2018.
- 2) Chromosomal Constitution of Crop and Horticultural Plants and Characterization of Hybrid Plants by Fluorescent *In Situ* Hybridization (FISH) Technique. Project Manager, 2010.
- 3) Evaluation of Genetic Variation, Compatibility, Selection, and Introduction of Suitable Germplasm within some *Thymus* Species. Project Collaborator, 2008.
- 4) Study of Genetic Variation in Hull-less Barley Genotypes. Project Manager, 2006.

VII. Publications and Journal Papers:

- 1) Radmanesh, P. and **Karimzadeh, G.** (2025). Chromosome, ploidy analysis, and flow cytometric genome size of caper (*Capparis spinosa*) medicinal plant. *Caryologia*, 27(4): 861-877. [Abstract](#) | [Full Text \(2.32 M\)](#) (Accepted)
- 2) **Karimzadeh, G.**, Farhadi, S., Baghizadeh, A., and Sayadi, V. (2025). Flow cytometric analysis of programmed cell death in rose (*Rosa hybrida* cv. Dolce vita+) as influenced by physico-chemical treatments. *Journal of Agricultural Science and Technology (JAST)*: 27(4): 861-877. [Abstract](#) | [Full Text \(2.32 M\)](#)
- 3) Afkar, S. and **Karimzadeh, G.** (2025). Changes in physiological traits, gene expression, and phytochemical profile of *Mentha piperita* in response to elicitor. *Biochemical Genetics*, 63: 2025-2039. [Abstract](#)
- 4) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2024). Chromosome, ploidy analysis, and flow cytometric genome size estimation of *Datura stramonium* and *D. innoxia* medicinal plant. *Caryologia*, 77(3):53-61. [Abstract](#) | [Full Text \(1.14 M\)](#)
- 5) Kholghi, M., Radmanesh, P., Darvishzadeh, R., **Karimzadeh, G.**, Alipour, H., Soufimaleky, S., Hatami Maleki, H., and Kahrizi, D. (2024). The role of bioinformatics in plant breeding for abiotic stresses. *Cereal Biotechnology and Biochemistry*, 3(4): 609-654 (In Persian with English Abstract) [Abstract](#) | [Full Text \(931 K\)](#)
- 6) Habibi Kliber, M., Khorasaninejad, S., Ebadi, M., **Karimzadeh, G.**, Farhadpour, M., and Grouber, K. (2024). Leaf micromorphology of some *Viola* spp. from Iran. *Journal of Applied Biology*, 37(3): 61-70. (In Persian with English Abstract) [Abstract](#) | [Full Text \(879 K\)](#)

- 7) Morovati, Z., **Karimzadeh, G.**, Rashidi Monfared, S., and Naghavi, M. R. (2024). Evaluation of morphophysiological and phytochemical characteristics of *Datura stramonium* and *D. innoxia* from Iran under controlled condition. Journal of Plant Physiology and Breeding, 14(2): 39-57. [Abstract](#) | [Full Text \(1.09 M\)](#)
- 8) Rasekh, S. Z., **Karimzadeh, G.**, and Ghassempour, A. (2024). Intraspecific variation of major alkaloids in Afghanistan opium poppy (*Papaver somniferum* L.). Journal of Plant Physiology and Breeding, 14(1): 1-15. [Abstract](#) | [Full Text \(910 K\)](#)
- 9) Yari, A., **Karimzadeh, G.**, Rashidi Monfared, S., and Sayadi, S. (2024). Mixed-ploidy in Iranian endemic *Cymbopogon olivieri* (Boiss.) Bor: A chromosomal and holoploid genome size study. Cytologia, 89 (2): 127-131. [Abstract](#) | [Full Text \(540 K\)](#)
- 10) Khakshour, A., **Karimzadeh, G.**, Sabet, M. S., and Sayadi, S. (2024). Karyomorphological and genome size variation in Iranian endemic populations of coriander (*Coriandrum sativum* L.). Cytologia, 89(1): 21-27. [Abstract](#) | [Full Text \(1.01 M\)](#)
- 11) Naghsh, M., Moieni, A., **Karimzadeh, G.**, Shams-Bakhsh, M., and Taghavi, T. S. (2023). Study of the effects of the explant type and the hormonal composition of the culture medium in the micropropagation of strawberry (*Fragaria × ananassa* Duch., cvs. Pajaro and Paros). Plant Production and Genetics, 4 (2): 167-178. [Abstract](#) | [Full Text \(460 K\)](#) (In Persian with English Abstract)
- 12) Rasekh, S. Z. and **Karimzadeh, G.** (2023). Chromosomal and genome size variations in opium poppy (*Papaver somniferum* L.) from Afghanistan. Caryologia, 76(4): 15-22. [Abstract](#) | [Full Text \(633 K\)](#)
- 13) Tavan, M., Bakhtiar, Z., Ghorbanpour, M., **Karimzadeh, G.**, and Mirjalili, M. H. (2023). Ploidy affects phytochemistry and micromorphology of *Thymus persicus* (Ronniger ex Rech.f.) Jalas: An *in vitro* investigation. Biochemical Systematics and Ecology, 109: 104684. [Abstract](#)
- 14) Abbasi-Karin, Sh., **Karimzadeh, G.**, and Mohammadi-Bazargani, M. (2023). Interspecific morphological and phytochemical variations in willow herb (*Epilobium* spp.) medicinal plant. Journal of Plant Physiology and Breeding, 13(2): 15-27. [Abstract](#) | [Full Text \(814 K\)](#)
- 15) Radmanesh, P., **Karimzadeh, G.**, Beyraghdar Kashkoli, A., and Heidarzadeh, A. (2023). Study on phytochemical traits and improving seed germination methods of Iranian endemic populations of caper (*Capparis spinosa* L.) medicinal plant. Iranian Journal of Seed Science and Research, 10(1): 41-52. (In Persian with English Abstract). [Abstract](#) | [Full Text \(1.3 M\)](#)
- 16) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2023). Essential oil profile of areal part of *Datura* species from Iran. Agrotechniques in Industrial Crops, 3(2): 53-59. [Abstract](#) | [Full Text \(664 K\)](#)
- 17) Firoozi, N., **Karimzadeh, G.**, Sabet, M. S., and Sayadi, V. (2022). Intraspecific karyomorphological and genome size variations of *in vitro* embryo derived Iranian endemic Asafoetida (*Ferula assa-foetida* L., Apiaceae). Caryologia, 75(4): 111-121. [Abstract](#) | [Full Text \(1.54 M\)](#)
- 18) Mohammadpour, S., **Karimzadeh, G.**, and Ghaffari, S. M. (2022). Karyomorphology, genome size, and variation of antioxidant in twelve berry species from Iran. Caryologia, 75(4): 133-148. [Abstract](#) | [Full Text \(1.11 M\)](#)

- 19) Ahmadi Roshan, M., **Karimzadeh, G.**, and Rashidi Monfared, S. (2022). *Satureja bachtiarica* micropropagation through somatic tissues: Mass propagation and adaptation. Iranian Journal of Medicinal and Aromatic Plants, 38(4): 581-591. [Abstract](#) | [Full Text \(766 K\)](#)
- 20) Razavi Keshmiri, Z. A., Javadian, N., Sharifi, M., and **Karimzadeh, G.** (2022). Ploidy level-induced changes in production of lignans, flavonoids, and phenolic acids in *Linum album* callus culture. Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 30(1): 97-107. [Abstract](#) | [Full Text \(871 K\)](#)
- 21) Sayadi, V., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2022). Interspecific genome size variation of Iranian endemic *Allium* species (Amaryllidaceae). Cytologia, 87(4): 335-338. [Abstract](#) | [Full Text \(657 K\)](#)
- 22) Javadian, N., **Karimzadeh, G.**, Sharifi, M., and Moieni, A. (2022). Effect of ploidy level on podophyllotoxin content and expression of genes related to its biosynthesis in callus cultures of *Linum album*. Biologia, 77: 2449-2458. [Abstract](#)
- 23) Mehravi, S., **Karimzadeh, G.**, Kordenaeeh, A., and Hanifei, M. (2022). Mixed-ploidy and dysploidy in *Hypericum perforatum*: A karyomorphological and genome size study. Plants 11, 3068: 1-19. [Abstract](#) | [Full Text \(1.47 M\)](#)
- 24) Zarabizadeh, H., **Karimzadeh, G.**, Rashidi Monfared, S., and Tarkesh Esfahani, S. (2022). Karyomorphology, ploidy analysis, and flow cytometric genome size estimation of *Medicago monantha* populations. Turkish Journal of Botany, 46: 50-61. [Abstract](#) | [Full Text \(2.8 M\)](#)
- 25) Abbasi-Karin, Sh., **Karimzadeh, G.**, and Mohammadi-Bazargani, M. (2022). Interspecific chromosomal and genome size variations in *in vitro* propagated willow herb (*Epilobium* spp.) medicinal plant. Cytologia, 87(2): 129-135. [Abstract](#) | [Full Text \(1.91 M\)](#)
- 26) Heidari, S., **Karimzadeh, G.**, and Rashidi Monfared, S. (2022). The first *in vitro* study of seed dormancy breakage in Iranian populations of St. John's Wort (*Hypericum perforatum*) with different geographical origins. Iranian Journal of Seed Research, 9(1): 59-74. [Abstract](#) | [Full Text \(943 K\)](#)
- 27) Zare Teymoori, S., **Karimzadeh, G.**, and Shariat, A. (2021). Chromosomal and genome size diversity in savory (*Satureja* spp.) medicinal plant. Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 29(2): 236-250. [Abstract](#) | [Full Text \(895 K\)](#)
- 28) Gholami Malekroudi, M., **Karimzadeh, G.**, Lohrasebi, T., Sabet, M. S., and Fathi, S. (2021). Potential survey of Iranian hexaploid landraces and modern cultivated bread wheat for iron, zinc, phytate, and phytate:mineral molar ratios. Journal of Plant Physiology and Breeding, 11(1): 137-156. [Abstract](#) | [Full Text \(950 K\)](#); [Supplementary File \(574 K\)](#)
- 29) Sayadi, V., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2021). Karyological studies and chromosome variation among Iranian endemic *Allium* species (Amaryllidaceae). Journal of Plant Physiology and Breeding, 11(1): 97-108. [Abstract](#) | [Full Text \(617 K\)](#)
- 30) Khakshour, A., **Karimzadeh, G.**, Sabet, M. S., and Sayadi, V. (2021). Study of morpho-phenological diversity and expression of genes involved in γ -Terpinene and Linalool biosynthesis in Iranian endemic populations of coriander (*Coriandrum sativum* L.).

Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 29(1): 51-63. [Abstract](#) | [Full Text \(1.26 M\)](#)

- 31) Abbasi-Vineh, M. A., Sabet, M. S., and **Karimzadeh, G.** (2021). Effect of *AtPAP17* and *AtPAP26* genes overexpression on yield and yield components under salt stress in *Arabidopsis thaliana* plant. Environmental Stresses in Crop Sciences, 14(2): 449-460. [Abstract](#) | [Full Text \(638 K\)](#)
- 32) Kadkhodaei, S., Arzani, K., Yaddollahi, A., **Karimzadeh, G.**, and Abdollahi, H. (2021). Genetic diversity and similarity of Asian and European pears (*Pyrus* spp.) revealed by genome size and morphological traits prediction. International Journal of Fruit Science, 21(1): 619-633. [Abstract](#) | [Full Text \(5.09 M\)](#)
- 33) Abbasi-Vineh, M. A., Sabet, M. S., and **Karimzadeh, G.** (2021). Identification and functional analysis of two purple acid phosphatases *AtPAP17* and *AtPAP26* involved in salt tolerance in *Arabidopsis thaliana* plant. Frontiers in Plant Science, 11 (Article 618716): 1-22. [Abstract](#) | [Full Text \(5.90 M\)](#)
- 34) Tarkesh Esfahani, S., **Karimzadeh, G.**, Naghavi, M. R., and Klaas, V. (2021). Altered gene expression and root thebaine production in polyploidized and methyl jasmonate-elicited *Papaver bracteatum* Lindl. Plant Physiology and Biochemistry, 158: 334-341. [Abstract](#) | [Full Text \(1.79 M\)](#)
- 35) Sayadi, V., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2021). Identification of alliin lyase (alliinase) genes from Iranian endemic *Allium* species: first new report. Acta Horticulturae, 1315: 207-212. [Abstract](#)
- 36) Kadkhodaei, S., Arzani, K., Yaddollahi, A., **Karimzadeh, G.**, and Abdollahi, H. (2021). Preliminary assessment of cytological characteristics of two European pears (*Pyrus communis* L.) cultivars. Acta Horticulturae, 1315: 287-292. [Abstract](#)
- 37) Abbasi-Karin, Sh, **Karimzadeh, G.**, Mohammadi-Bazargani, M., and Mokhtassi-Bidgoli, A. (2020). Non-destructive model to estimate leaf area in *Epilobium* species. Journal of Plant Physiology and Breeding, 10(2): 1-12. [Abstract](#) | [Full Text \(546 K\)](#)
- 38) Tarkesh Esfahani, S., **Karimzadeh, G.**, and Naghavi, M. R. (2020). *In vitro* polyploidy induction in Persian poppy (*Papaver bracteatum* Lindl.). Caryologia, 73(1): 133-144. [Abstract](#) | [Full Text \(740 K\)](#)
- 39) Sayadi, V., **Karimzadeh, G.**, Rashidi Monfared, S., and Naghavi, M. R. (2020). Identification and expression analysis of S-alk(en)yl-L-cysteine sulfoxide lyase isoform genes and determination of allicin contents in *Allium* species. PlosOne, 15(2): e0228747. [Abstract](#) | [Full Text \(1.8 M\)](#)
- 40) **Karimzadeh, G.** and Sayadi, V. (2020). Applied Cytogenetics: Concepts and Laboratory Methods. [Iran University Press](#), Tehran, Iran, 353 p.
- 41) Madani, H., Hosseini, B., **Karimzadeh, G.**, and Rahimi, A. (2019). Enhanced thebaine and noscapine production and modulated gene expression of tyrosine/dopa decarboxylase and salutaridinol 7-O-acetyltransferase genes in induced autotetraploid seedlings of *Papaver bracteatum* Lindl. Acta Physiologiae Plantarum 41(12): 1-12. [Abstract](#)
- 42) Madani, H., Hosseini, B., **Karimzadeh, G.**, and Rahimi, A. (2019). Effects of polyploidy induction on antioxidant capacity and some phytochemical and morphological characteristics of Iranian poppy (*Papaver bracteatum* Lindl.). Iranian Journal of Medicinal and Aromatic Plants, 35(2): 170-181. [Abstract](#) | [Full Text \(478 K\)](#)

- 43) Asadi, M., Hadian, J., Naserian, B., and **Karimzadeh, G.** (2019). The effect of gamma ray treatment on seed germination and seedling growth traits *Arnica chamissonis* Less. ssp. *foliosa* and suitable gamma ray dose determination in order to induce genetic variation. *Breeding of Agronomic and Horticultural Crop*, 4(1): 215-226. [Abstract](#) | [Full Text \(1.43 M\)](#)
- 44) Asadi, M., Hadian, J., Ebrahimi, S., and **Karimzadeh, G.** (2019). Effect of different levels of sulfur on growth, quality characteristics and yield of *Arnica chamissonis* Less. ssp. *foliosa*. *Journal of Horticultural Science*, 33(2): 219-232. [Abstract](#) | [Full Text \(1.2 M\)](#)
- 45) Salehi, M., **Karimzadeh, G.**, and Naghavi, M. R. (2019). Synergistic effect of coronatine and sorbitol on artemisinin production in cell suspension culture of *Artemisia annua* L. cv. Anamed. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 137(3): 587-597. [Abstract](#) | [Full Text \(3.6 M\)](#)
- 46) Aqafarini, A., Lotfi, M., Norouzi, M., and **Karimzadeh, G.** (2019). Induction of tetraploidy in garden cress: morphological and cytological changes. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 137(3): 627-635. [Abstract](#) | [Full Text \(1.6 M\)](#)
- 47) Bagherikia, S., Shadadeh, M., **Karimzadeh, G.**, and Pahlevani, M. H. (2019). Analysis of bread-making quality of Iranian bread wheat cultivars, containing wheat-rye translocation (1BL.1RS), using STS specific markers. *Modern Genetics Journal*, 13(3): 437-443 (In Persian with English Abstract). [Abstract](#) | [Full Text \(599 K\)](#)
- 48) Shariat, A., **Karimzadeh, G.**, Asareh, M. H., and Hadian, J. (2018). Metabolite profiling and molecular responses in a drought-tolerant savory, *Satureja rechingeri* exposed to water deficit. *3 Biotech*, 8: 477. [Abstract](#) | [Full Text \(992 K\)](#)
- 49) Shariat, A., **Karimzadeh, G.**, Asareh, M. H., and Loureiro, J. (2018). Relationships between genome size, ecological and morphological traits in five *Satureja* (Lamiaceae) species. *Iranian Journal of Botany*, 24(2): 163-173. [Abstract](#) | [Full Text \(481 K\)](#)
- 50) Salehi, M., **Karimzadeh, G.**, Naghavi, M. R., Naghdibadi, H., and Rashidi Monfared, S. (2018). Expression of key genes affecting artemisinin content in five *Artemisia* species. *Scientific Reports*, 8(12659): 1-11. [Abstract](#) | [Full Text \(2.00 M\)](#)
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- 139) Jahanbakhsh-Godehkahriz, S., **Karimzadeh, G.**, and Rastegar, F. (2007). Low temperature-induced accumulation of, and SDS-PAGE changes in soluble proteins in the leaves of spring and winter wheat genotypes. Journal of Agricultural Science, 16(4): 73-83. (In Persian with English Abstract) [Abstract](#)
- 140) Zebarjadi, A. R., Jalali, M., Salmanian, A. H., **Karimzadeh, G.**, Moieni, A., and Mousavi, A. (2006). Isolation and antisense construction of *fae* gene and its transfer to *Brassica napus*. Iranian Journal of Agricultural Sciences, 37-1(2): 257-271. (In Persian with English Abstract) [Abstract](#)
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- 143) **Karimzadeh, G.**, Sharifi-Sirchi, G. R., Jalali-Javaran, M., Dehghani, H., and Francis, D. (2006). Soluble proteins induced by low temperature treatment in the leaves of spring and winter wheat cultivars. Pakistan Journal of Botany, 38(4): 1015-1026. [Abstract](#) | [Full Text \(283 K\)](#)
- 144) Haddadi, P., Moieni, A., **Karimzadeh, G.**, and Abdollahi, M. (2006). Study of plant regeneration traits in obtained embryos from various containers in microspore culture of rapeseed (*Brassica napus* cv. PF7045/91). Journal of Science Univ. of Tehran, 32(1): 49-56 (In Persian with English Abstract). [Abstract](#) | [Full Text \(1.18 M\)](#)
- 145) Ghaffaripour, S. and **Karimzadeh, G.** (2006). Karyotype and evolution studies in some hull-less barley (*Hordeum vulgare*) genotypes. Iranian Journal of Agricultural Sciences, 37-1(3): 425-434. (In Persian with English Abstract) [Abstract](#)
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- 147) Basati, J., Mesbah, M., **Karimzadeh, G.**, and Sadegheian, S. Y. (2006). Analysis of genetic resistance to powdery mildew disease in sugar beet. Journal of Sugar Beet, 21(2): 105-122 (In Persian with English Abstract). [Abstract](#)
- 148) Omidbaigi, R., Pirmoradi, M. R., and **Karimzadeh, G.** (2005). Effects of different methods of root incision on the yield and survival of Asafoetida (*Ferula assa-*

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 - 150) **Karimzadeh, G.**, Darvishzadeh, R., Jalali-Javaran, M., and Dehghani, H. (2005). Cold-induced accumulation of protein in the leaves of spring and winter barley cultivars. Acta Biologica Hungarica, 56(1-2): 83-96. [Abstract](#)
 - 151) Arzani, K., Khoshghalb, H., and **Karimzadeh, G.** (2005). Scion/rootstock influence on grafting success, early performance, tree survival and efficiency of nutrient uptake of some Asian pear (*Pyrus serotina* Rhed) cultivars. Acta Horticulturae 671: 477-480. [Abstract](#)
 - 152) Arzani, K., Nejatian, M. A., and **Karimzadeh, G.** (2005). Apricot (*Prunus armeniaca*) pollen morphological characterisation through scanning electron microscopy, using multivariate analysis. New Zealand Journal of Crop and Horticultural Science, 33: 381-388. [Abstract](#) | [Full Text \(283 K\)](#)
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 - 154) **Karimzadeh, G.**, Francis, D., and Davies, M. S. (2004). Low temperature-induced G1-accumulated cells in the callus in winter wheat but not in spring wheat. In: "[In Vitro Culture Transformation and Molecular Markers for Crop Improvement](#)", ed. Islam, A. S., pp. 65-74. Science Publishers, Inc., Enfield, NH, USA.
 - 155) **Karimzadeh, G.** and Omidbaigi, R. (2004). Growth and seed characteristics of isabgol (*Plantago ovata* Forsk) as influenced by some environmental factors. Journal of Agricultural Science and Technology (JAST), 6: 103-110. [Abstract](#) | [Full Text \(697.1 K\)](#)
 - 156) Kahrizi, D., Salmanian, A. H., Afshari, A., Mousavi, A., Moieni, A., and **Karimzadeh, G.** (2004). Isolation, molecular analysis and site directed mutagenesis in *E. coli* EPSPS gene in order to make glyphosate tolerant rapeseed (*Brassica napus*). Pajouhesh-va-Sazandegi, 64: 94-103 (In Persian with English Abstract). [Abstract](#)
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- 162) Saidi, A., Abedini-Esfahlani, M., **Karimzadeh, G.**, and Alizadeh, A. (2001). Inheritance of resistance to *Fusarium* head blight in six wheat cultivars (*Triticum aestivum* L.). *Seed and Plant*, 17(1): 74-87. (In Persian with English Abstract) [Abstract](#)
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- 166) **Karimzadeh, G.**, Francis, D., and Davies, M. S. (2000). Low temperature-induced accumulation of protein is sustained both in root meristems and in callus in winter wheat but not in spring wheat. *Annals of Botany*, 85: 769-777. [Abstract](#) | [Full Text \(237.5 K\)](#)
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- 168) **Karimzadeh, G.**, Kovács, G., and Barnabás, B. (1995). Effects of cold treatment and different culture media on the androgenic capacity of two winter wheat genotypes. *Cereal Research Communications*, 23(3): 223-227. [Abstract](#)
- 169) **Karimzadeh, G.** (1992). Effects of Cold Treatment and Different Culture Media on the Androgenic Capacity of Two Winter Wheat Genotypes. M.Sc. Thesis, [Gödöllő Univ. of Agricultural Sciences](#), Hungary. (In English) [Full Text \(527 K\)](#)

VIII. Seminars and Conferences Attained:

- 1) [6th International Congress of Developing Agriculture, Natural Resources, Environment, and Tourism of Iran. 17-19 Jan, 2023, Tabriz, Iran.](#)
- 2) [2nd International Conference on Biotechnology and Global Development. 30 Apr, 2022, Pasteur Institute of Iran, Tehran, Iran.](#)
- 3) [4th International and 16th Iranian Genetics Congress, 15-17 Apr, 2020. Tarbiat Modares Univ. \(TMU\), Tehran, Iran.](#)
- 4) [3rd International and 11th National Biotechnology Congress of Iran. 1-3 Sep, 2019, Iran Univ. of Medical Sciences, Tehran, Iran.](#)

- 5) [1st International Conference and 10th National Horticultural Science Congress \(IrHC2017\). 4-7 Sep, 2017, Tarbiat Modares Univ. \(TMU\), Tehran, Iran.](#)
- 6) [3rd Global Summit on Plant Science. 07-09 Aug, 2017, Rome, Italy.](#)
- 7) [20th EUCARPIA General Congress: Plant Breeding, the Art of Bringing Science to Life. 29 Aug-1 Sep, 2016, Zurich, Switzerland.](#)
- 8) [International Conference on Biological Products \(ICBP 2015\). 18-20 Sep, Shanghai, China.](#)
- 9) The World Academy of Science, Engineering and Technology. ICANRE 2012: International Conference on Agricultural and Natural Resources Engineering. 19-21 Feb, 2012, Pacific Regency Hotel Suites, Kuala Lumpur, Malaysia.
- 10) 6th National Biotechnology Congress of Iran. 13-15 Aug, 2009, Milad Tower Conference Hall, Tehran, Iran.
- 11) [2nd Iranian Proteomics Congress. 23-24 Apr, 2009, Royan Institute, Tehran, Iran.](#)
- 12) 1st European Conference of Iranian Scientists in Agriculture and Natural Resources Sciences. 8-9 Oct, 2008, Paris, France.
- 13) 6th Asian Crop Science Association Conference. 5-9 Nov, 2007, Queen Sirikit National Convention Center, Bangkok, Thailand.
- 14) 8th Iranian Crop Production and Breeding Congress. 25-27 Aug, 2004, Univ. of Guilan, Rasht, Iran.
- 15) 2nd Iranian Congress on Applied Biology. 29-30 Sep, 2004, Islamic Azad Univ., Mashhad, Iran.
- 16) 2nd Iranian Agricultural Students' Congress. 6 Sep, 2004, [Tarbiat Modares Univ.](#), Tehran, Iran.
- 17) 12th Iranian Biology Conference. 31 Aug-2 Sep, 2004, Bu Ali Sina Univ. of Hamedan, Hamedan, Iran.
- 18) 3rd National Biotechnology Congress. 9-11 Sep, 2003, Ferdowsi Univ. of Mashhad, Mashhad, Iran.
- 19) 3rd Iranian Congress on Minimizing Damages to Field and Orchard Crops Due to Chilling and Freezing. 10-11 Mar, 2003, Karaj, Iran.
- 20) 7th Iranian Congress on Crop Production and Plant Breeding. 24-26 Aug, 2002, Seed and Plant Improvement Institute (SPII), Karaj, Iran.
- 21) 3rd International Iran and Russia Conference " Agriculture and Natural Resources". 18-20 Sep, 2002, Moscow Timiriazev Agricultural Academy (MTAA), Moscow, Russia.
- 22) 4th International Plant Tissue Culture Conference. 1-3 Nov, 2001, Univ. of Dhaka, Dhaka, Bangladesh.
- 23) 2nd National Biotechnology Congress. 9-11 Oct, 2001, Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran.
- 24) 1st Regional Yellow Rust Conference for Central and West Asia and North Africa. 8-14 May, 2001, Seed and Plant Improvement Institute (SPII), Karaj, Iran.
- 25) 1st Iranian Congress on Applied Biology. 6-7 Feb, 2001, Islamic Azad Univ., Mashhad, Iran.

- 26) 10th Iranian Biology Conference. 25 Aug, 2001, [Shiraz Univ.](#), Shiraz, Iran.
- 27) 9th Iranian Biology Conference. 15-17 Aug, 2000, [Univ. of Tehran](#), Tehran, Iran.
- 28) 6th Iranian Congress on Crop Production and Plant Breeding. 3-6 Sep, 2000, Univ. of Mazandaran, Babolsar, Iran.
- 29) 1st National Congress of Biotechnology. 22-24 Feb, 2000, [Tarbiat Modares Univ.](#) (TMU), Tehran, Iran.
- 30) 5th Iranian Congress on Crop Production and Plant Breeding. 31 Aug-4 Sep, 1998, Seed and Plant Improvement Institute (SPII), Karaj, Iran.
- 31) 6th Iranian Biology Conference. 25-27 Aug, 1997, Shahid Bahonar Univ., Kerman, Iran.
- 32) Departmental Postgraduate Meeting. 20 Jan, 1996, Cardiff School of Biosciences, Cardiff Univ., Cardiff, UK.
- 33) Annual Postgraduate Seminar of Plant Science. 9 Jan, 1996, Aberystwyth, UK.
- 34) 3rd Iranian Congress on Crop Production and Breeding Sciences. 3-8, Sep, 1994, Tabriz Univ., Tabriz, Iran.
- 35) 1st SCM9 and PAWS5/S6^t Iranian Biotechnology Seminar, Univ. of Manchester, UK, 1993.

IX. Papers Presented in Conferences:

- 1) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2024). Monoploid genome size study in Iranian endemic populations of *Datura stramonium* medicinal plant. In: The Proceedings of the [6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\)](#), Shaheed Beheshti University, Tehran, Iran, Code G-1664, pp. 1630-1631.
- 1) Haghshenas, Z., Kordenaeej, A., **Karimzadeh, G.**, and Hosseini, A. (2024). Evaluate the variation in genome size and flow cytometric estimated ploidy levels in Salsify populations (*Tragopogon sp.*). In: The Proceedings of the [6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\)](#), Shaheed Beheshti University, Tehran, Iran, Code G-1669, pp. 1444-1446.
- 2) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2024). Investigation of genome size changes in four populations of *Datura innoxia* from Iran. In: The Proceedings of the [6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\)](#), Shaheed Beheshti University, Tehran, Iran, Code G-1703, pp. 1533-1534.
- 3) Zare, M., **Karimzadeh, G.**, and Rashidi Monfared, S. (2024). Ploidy level and holoploid genome size in some Iranian populations of St. John's wort (*Hypericum perforatum* L.). In: The Proceedings of the [6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\)](#), Shaheed Beheshti University, Tehran, Iran, Code G-1718, pp. 1574-1575.
- 4) Khakshour, A., **Karimzadeh, G.**, Sabet, M. S., and Sayadi, V. (2024). Cytogenetic variability in Iranian endemic populations of coriander (*Coriandrum sativum* L.): Karyomorphological and monoploid genome size studies. In: The Proceedings of the [6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\)](#), Shaheed Beheshti University, Tehran, Iran, Code G-1745, pp. 1633-1638.

- 5) Yari, A., **Karimzadeh, G.**, Rashidi Monfared, S., and Sayadi, V. (2024). Chromosomal and nuclear DNA content variations in Iranian endemic *Cymbopogon olivieri* (Boiss.) Bor. In: [The Proceedings of the 6th International & 18th National Congress of Genetics in Iran, 22-24 May, 2024 \(2-4, 03, 1403\), Shaheed Beheshti University, Tehran, Iran, Code G-1746, pp. 1639-1644.](#)
- 6) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2023). Chromosomal study in Iranian populations of *Datura stramonium*. In: [The 6th International Conference on Studies of Agricultural Engineering, Farming, and Plant Breeding, 21 August, 2024 \(31, 05, 1403\), Tehran, Iran, pp. 1-4.](#)
- 7) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2023). Phytochemical study of *Datura innoxia* from Iran. In: The 10th National Congress on Medicinal Plants, 12-13 Jul, 2023, Urmia, Iran. Paper ID 109, P90.
- 8) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2023). Phytochemical study of *Datura stramonium* from Iran. In: The 10th National Congress on Medicinal Plants, 12-13 Jul, 2023, Urmia, Iran. ID 110, P91.
- 9) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2023). Volatile constituents of areal parts of *Datura stramonium* from Iran. In: [The 6th International Congress of Developing Agriculture, Natural Resources, Environment, and Tourism of Iran, 17-19 Jan, 2023, Tabriz, Iran, p. 1-8.](#)
- 10) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., Rashidi Monfared, S., and Zare, M. (2023). Study on tropane alkaloids existing in two species of *Datura* (*Datura stramonium*, *D. innoxia*) medicinal plant. In: [The 6th International Congress of Developing Agriculture, Natural Resources, Environment, and Tourism of Iran, 17-19 Jan, 2023, Tabriz, Iran, p. 1-7.](#)
- 11) Radmanesh, P., **Karimzadeh, G.**, and Beyraghdar Kashkooli, A. (2023). Caper (*Capparis spinosa* L.) ancient medicinal plant: secondary metabolites, applications, growth optimal conditions, and cultivation. In: [The 6th International Congress of Developing Agriculture, Natural Resources, Environment, and Tourism of Iran, 17-19 Jan, 2023, Tabriz, Iran, p. 1-8.](#)
- 12) Zare, M. and **Karimzadeh, G.** (2023). Use of St. John's Wort (*Hypericum perforatum* L.) major secondary metabolites in pharmaceutical industry. In: [The 6th International Congress of Developing Agriculture, Natural Resources, Environment, and Tourism of Iran, 17-19 Jan, 2023, Tabriz, Iran, p. 1-5.](#)
- 13) Morovati, Z., **Karimzadeh, G.**, Naghavi, M. R., and Norani, M. (2022). Investigating the market of derivatives tropane alkaloids and the trade of processed products. In: [The Proceedings of The 2nd International Conference on Biotechnology and Global Development, 30 Apr, 2022, Pasteur Institute of Iran, Tehran, Iran, p. 149-150.](#)
- 14) Mohammadpour, S. and **Karimzadeh, G.** (2020). Chromosomal, genome size, and phytochemical studies in goji berry (*Lycium* spp.) species. In: [The Proceedings of the 4th International & 16th Iranian Genetics Congress, 15-17 Apr, 2020, Tarbiat Modares Univ. \(TMU\), Tehran, Iran, p. 1.](#)
- 15) Farzifard, V. and **Karimzadeh, G.** (2019). Genomic imprinting in plant. In: [The Proceedings of the 3rd International and 11th National Biotechnology Congress of Iran, 1-3 Sep, 2019, Iran Univ. of Medical Sciences, Tehran, Iran, pp. 1-6.](#)

- 1) Madani, H., Hosseini, B., **Karimzadeh, G.**, and Rahimi, A. (2019). The effect of ploidy induction on the activity of certain antioxidant enzymes of Iranian poppy (*Papaver bracteatum* Lindl.). In: The Proceedings of the 11th Iranian Horticultural Sciences Congress, 26-29 Aug, 2019, Urmia Univ., Urmia, Iran, pp. 1-5.
- 2) Sayadi, V., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2018). Study of some *Allium* species in term of allicin content: the first report for some Iranian endemic *Allium* species. In: The Proceedings of the [3rd International and 15th National Iranian Crop Science Congress](#), 4-6 Sep, 2018, Karaj, Iran, pp. 1-4.
- 3) Sayadi, V., **Karimzadeh, G.**, Rashidi Monfared, S., and Naghavi, M. R. (2018). Identification and sequencing of alliinase enzyme gene involved in pathway of allicin biosynthesis with the first report for some Iranian endemic *Allium* species. In: The Proceedings of the [3rd International and 15th National Iranian Crop Science Congress](#), 4-6 Sep, 2018, Karaj, Iran, pp. 1-5.
- 4) Sayadi, V., **Karimzadeh, G.**, Naghavi, M. R., and Rashidi Monfared, S. (2017). Identification of alliin lyase (Alliinase) genes from Iranian endemic *Allium* species: First new report. In: The Proceedings of the [1st International Horticultural Science Conference of Iran \(IrHC2017\)](#), 4-7 Sep, 2017, Tarbiat Modares Univ. (TMU), Tehran, Iran, p. 164.
- 5) **Karimzadeh, G.**, Salehi, M., Naghavi, M. R., Naghdibadi, H., and Rashidi Monfared, S. (2017). Survey of five *Artemisia* species with different artemisinin contents in view of relative expression of 13 genes involved in artemisinin production, karyology, and nuclear DNA content. In: The Proceedings of the [3rd Global Summit on Plant Science](#), 07-09 Aug, 2017, Rome, Italy, p. 86.
- 6) Madani, H., Hosseini, B., **Karimzadeh, G.**, Rahimi, E., and Hosseini, S. (2017). Effects of polyploidy on some morphological and cytological characteristics of Persian poppy (*Papaver bracteatum* Lindl.). In: The Proceedings of the 6th National Congress on Medicinal Plants, 9-10 May, 2017, Tehran, Iran, p. 587.
- 7) **Karimzadeh, G.**, Tarkesh Esfahani, S., and Naghavi, M. R. (2016). *In vitro* polyploidy induction in Persian endemic *Papaver bracteatum* (Papaveraceae). In: The Proceedings of the 20th EUCARPIA General Congress: Plant Breeding, the Art of Bringing Science to Life, 29 Aug-1 Sep, 2016, Zurich, Switzerland, p. 350.
- 8) Khakshor, A., **Karimzadeh, G.**, and Sabet, M. S. (2016). Study on morphological variation in different Iranian endemic coriander (*Coriandrum sativum* L.) populations. In: The Proceedings of the 2nd National Congress on the Development of Agricultural Science and Natural Resources, 11 May, Gorgan, Iran, 11 p.
- 9) Arzani, K., Sarikhani Khorami, S., Shojaeiyan, A., and **Karimzadeh, G.** (2016). Oil content and fatty acid composition of some superior Persian walnut (*Juglans regia* L.) genotypes. In: The Proceedings of the 9th Congress of Horticultural Sciences, 24-27 Jan, Ahvaz, Iran, pp. 1-5.
- 10) Hamidi, F., **Karimzadeh, G.**, and Khakshor, A. (2015). Genome size variation in some populations of Iranian endemic *Artemisia khorasanica* Podl. medicinal plant. In: The Proceedings of the 1st International and the 4th National Conference on Medical Herbs and Stable Agriculture, 17 Dec, Hamadan, Iran, pp. 1-6.
- 11) Shariat, A., **Karimzadeh, G.**, Assareh, M. H., and Hadian, J. (2015). Influence of ploidy level on drought tolerance in Iranian endemic *Satureja* medicinal plant. In: The

Proceedings of the International Conference on Biological Products (ICBP 2015), 18-20 Sep, Shanghai, China, Article ID: ICBP2015Sep_30013, pp. 24-25.

- 12) Hamidi, F., **Karimzadeh, G.**, and Khakshor, A. (2015). Programmed cell death in plants and study on its methods. In: The Proceedings of the International Conference on Sustainable Development with a focus on Agriculture, Environment and Tourism, 16-17 Sep, Tabriz, Iran, pp. 1-8.
- 13) Salehi, M., **Karimzadeh, G.**, Naghavi, M. R., Naghdibadi, H., and Rashidi Monfared, S. (2015). Relationship between glandular trichome density and artemisinin content in the leaves of six *Artemisia* species of Iran at flowering stage. In: The Proceedings of the 4th Iranian Conference of Plant Physiology, [Tarbiat Modares Univ.](#), Department of Biological Sciences, 2-3 Sep, Tehran, Iran.
- 14) Razavi Kashmiri, Z., Sharifi, M., Ahmadian Cheshmi, N., and **Karimzadeh, G.** (2015). Comparative studies of lignans production in diploid and induced tetraploid cell cultures of *Linum album*. In: The Proceedings of the 4th Iranian Conference of Plant Physiology, [Tarbiat Modares Univ.](#), Department of Biological Sciences, 2-3 Sep, Tehran, Iran.
- 15) Zarabizadeh, H., **Karimzadeh, G.**, and Firoozi, N. (2015). Mixoploidy within and between species in a wide range of medicinal plant. In: The Proceedings of the 1st National Conference on Herbs and Herbal Medicine, 28 May, Shahid Beheshti Univ., Tehran, Iran, pp. 1-16.
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- 102) **Karimzadeh, G.** (2002). G1-arrested cells in the root meristems of winter wheat in response to vernalization low temperature stress. In: The Proceedings of the 7th Iranian Crop Sciences Congress, 24-26 Aug, 2002. Seed and Plant Improvement Institute (SPII), Karaj, Iran, pp. 719 (In Persian).
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- 172) **Karimzadeh, G.**, Sharifi-Sirchi, G. R., Jalali-Javaran, M., and Dehghani, H. (2001). Cold-induced changes in the electrophoretic patterns of the leaf soluble proteins of wheat cultivars in early growth period. In: The Proceedings of the 2nd National Biotechnology Congress, 9-11 Oct, 2001. Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran, pp. 423-430. (In Persian)
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- 177) Saidi, A., Abedini-Esfahlani, M., **Karimzadeh, G.**, and Alizadeh, A. (2000). Genetic analysis of resistance to *Fusarium* head blight spreading in wheat (*Triticum aestivum* L.). In: The Proceedings of the 6th Iranian Congress on Crop Production and Plant Breeding, 3-6 Sep, 2000. Univ. of Mazandaran, Babolsar, Iran, pp. 218-219. (In Persian)
- 178) Basati-Carvaneh, J., **Karimzadeh, G.**, and Mesbah, M. (2000). Study on resistance to powdery mildew in sugar beet (*Beta vulgaris* L.) genotypes and its effects on quality and quantity of yield. In: The Proceedings of the 6th Iranian Congress on Crop Production and Plant Breeding, 3-6 Sep, 2000. Univ. of Mazandaran, Babolsar, Iran, pp. 207-208. (In Persian)
- 179) Basati-Carvaneh, J., **Karimzadeh, G.**, and Mesbah, M. (2000). Path Analysis of factors affecting quantitative and qualitative characteristics of sugar beet (*Beta vulgaris* L.). In: The Proceedings of the 6th Iranian Congress on Crop Production and Plant Breeding, 3-6 Sep, 2000. Univ. of Mazandaran, Babolsar, Iran, pp. 63-64. (In Persian)
- 180) Abedini-Esfahlani, M., Saidi, A., **Karimzadeh, G.**, and Alizadeh, A. (2000). Study of different assessment methods of resistance to spreading *Fusarium* head blight in wheat (*Triticum aestivum* L.). In: The Proceedings of the 6th Iranian Congress on Crop

Production and Plant Breeding, 3-6 Sep, 2000. Univ. of Mazandaran, Babolsar, Iran, pp. 202. (In Persian)

X. Research Students Supervised:

- 1) F. Farhadi, "Study on Genome Size Variation, Estimating the Breeding Value of Traits Related to Phosphorus Efficiency and Analyzing the Expression of Genes Involved in Tolerance of Maize (*Zea mays* L.) under Phosphorus Deficiency Stress", M.Sc, Apr, 2025.
- 2) S. Maleki, "Karyology, Genome Size, and Antioxidant Activity in some Populations of Iranian Endemic *Artemisia scoparia* Waldst. & Kit. Medicinal Plant", M.Sc, Sep, 2024.
- 3) F. Gholami, "Karyomorphology, Genome Size, and Antioxidant Activity in some Iranian Endemic Populations of Plantain (*Plantago major* L.) Medicinal Plant", M.Sc, Jun, 2024.
- 4) M. Haghshenas, "Study on flow cytometric estimated genome size and ploidy level variation in Iranian endemic populations of salsify (*Tragopogon* spp.) medicinal plant", M.Sc, [Shahed Univ.](#), Sep, 2024.
- 5) P. Ebrahimi, "Karyomorphology, Genome Size, and Antioxidant Content in some Populations of Rose Dog (*Rosa canina* L.) Medicinal Plant", M.Sc, Jun, 2023.
- 6) M. Zare, "Effect of Ploidy Level on Expression of some Genes Involved in Hypericin and Hyperforin Biosynthesis Pathway in some Iranian Endemic St. John's Wort (*Hypericum perforatum* L.) Populations", M.Sc, Mar, 2024.
- 7) P. Radmanesh, "Study on Karyomorphology, Genome Size, and Antioxidant Content in some Populations of Cobar (*Capparis spinosa* L.) Medicinal Plant", M.Sc., Feb, 2023.
- 8) S. Z. Rasekh, "Study on Karyology, Genome Size, and Major Alkaloids in some Populations of *Papaver somniferum* in Balkh Province, Afghanistan", M.Sc., Nov, 2022.
- 9) M. Dashti, "Karyologic, Genome Size, and Phytochemical Study of Plant Medicinal *Citrullus colocynthis*", M.Sc., Sep, 2022.
- 10) Z. Morovati, "Cytogenetic Study and Expression of some Genes involved in Biosynthesis of Scopolamine in two Species of *Datura* (*Datura stramonium*, *D. innoxia*) Medicinal Plant", Ph.D. approved proposal, Nov, 2021.
- 11) S. Mohammadpour, "Cytogenetic and Antioxidant Amount Variation in some Species of Berries", M.Sc. Jul, 2021.
- 12) M. Ahmadi-Roshan, "Comparative Analysis of Important Metabolites and Transcriptome Changes of (*Satureja bachtiarica* L.) Medicinal Plant Affected by Ploidy Levels and two Abiotic Elicitors: Methyl Jasmonate and Salicylic Acid", Ph.D. approved proposal, Apr, 2020.
- 13) V. Sayadi, "Cytogenetically Study, Identification and Gene Expression Analysis of Alliinase Enzyme Involved in Allicin Biosynthesis in some Iranian Endemic *Allium* Species", Ph.D. Feb, 2020.
- 14) S. Zare Teymoori, "Morphological, Cytogenetical and Phytochemical Variations in some Populations of Savory (*Satureja* spp.) Medicinal Plant", M.Sc. Jul, 2019.

- 15) Sh. Abbasi Karin, "Interspecific Variations (Morphologic, Cytogenetic, and Phytochemical) in Willow Herb (*Epilobium* sp.) Medicinal Plant", M.Sc. Feb, 2019.
- 16) A. Yari, "Study on Cytogenetic, Phytochemical, Isolation and Expression of some Genes Involved in Biosynthesis Pathway of Piperitone in Iranian Endemic *Cymbopogon olivieri* (Boiss.) Bor.", Dept. of Agricultural Biotechnology, M.Sc. Jul, 2018.
- 17) M. Salehi, "Study on Structure of the Glandular Trichomes and Expression of Genes Involved in Artemisinin Production in Leaves of some *Artemisia* Species of Iran", Ph.D. Jan, 2018. (Now Postdoctoral Fellowship. in Univ.of Tehran, Tehran, Iran)
- 18) Z. Heidari Soreshjani, "Study on Relationship between Ploidy Level and Expression of Genes Involved in Biosynthesis of Hypericin and Hyperforin in some Endemic St John's Wort (*Hypericum perforatum*) Populations", Ph.D. proposal approved in Jul, 2016.
- 1) S. Tarkesh-Esfahani, "Effect of Polyploidy Induction on Expression of some Genes Involved in Alkaloids Biosynthesis Pathway in Iranian Endemic Poppy (*Papaver bracteatum* Lindl.) Medicinal Plant", Ph.D. Jul, 2016. (Now Asst. Prof. in Yazd Univ., Yazd, Iran)
- 2) A. Khakshor, "Morphological, Cytogenetic Variation, Phytochemical and Expression of Two Major Genes Involved in Terpinene Biosynthesis Pathway in some Iranian Endemic Populations of Coriander (*Coriandrum sativum* L.) Medicinal Plant", M.Sc. Jun, 2016.
- 3) F. Hamidi, "Study on Cytogenetic, Phytochemical and Expression of Genes Involved in Artemisinin Biosynthesis Pathway in some Iranian Endemic Populations of *Artemisia khorassanica*", M.Sc. Mar, 2016.
- 4) S. Z. Razavi Keshmiri, "Comparison of Physiological Responses in Diploid and induced Tetraploid *Linum Album* to Methyl Jasmonate and Salicylic Acid", M.Sc. Feb, 2016
- 5) A. Shariat "Study of Metabolomics and Three Important Genes Expression in Response to Drought Stress and Cytogenetic Study of some Iranian Endemic Savory (*Satureja* spp.) Species", Ph.D. Jul, 2015. (Now Res. Asst. Prof. in Res. Inst. Forests and Rangelands, Tehran, Iran)
- 6) H. Zarabizadeh, "Cytogenetic Variation in some Iranian Endemic Ecotypes of Fenugreek (*Trigonella monantha* L.) Medicinal Plant", M.Sc. Jul, 2015.
- 7) N. Firoozi, "Cytogenetic Variation in some Iranian Endemic Ecotypes of Asafoetida (*Ferula assa-foetida* L.) Medicinal Plant", M.Sc. Jun, 2015.
- 8) N. Javadian, "Tetraploidy Induction and Study of some Genes Expression Involved in Podophyllotoxin Biosynthesis Pathway in *Linum album*", Ph.D. Sep, 2014.
- 9) T. Jadidi, "Study on Genome Content and Phylogeny Association of Hypericin Gene in some Species of Iranian Endemic St. John's Wort (*Hypericum* spp.)", M.Sc. Jul, 2014.
- 10) M. Gholami-Malekroudi, "Assessment of "Fe" Content in Iranian Bread Wheat Cultivars and Molecular Analysis of Efficient and Inefficient Cultivars Using cDNA-AFLP", M.Sc. Jul, 2014.
- 11) S. Afkar, "Expression of Important Genes (*pr*, *mfs*, *ls*) in Menthol Biosynthesis Pathway in Response to Methyl Jasmonate in Peppermint (*Mentha piperita*) Medicinal Plant", Ph.D. Sep, 2013. (Now Asst. Prof. in Payame Noor Univ., Khorramabad, Iran)

- 12) Sh. Mehravi, "Morphologic and Cytogenetic Variation in Iranian Endemic Ecotypes of St. John's Wort (*Hypericum perforatum*) Medicinal Plants", M.Sc. Feb, 2013. (Now Research Officer, Crop Genomics Group, School of Biological Sciences, The University of Western Australia, Australia)
- 13) L. Fathalyani, "Study on Morphological and Cytogenetic Variations in some Populations of Garlic (*Allium sativum* L.)", M.Sc. in Azad Univ., Tehran, Sep, 2012.
- 14) S. Bagherikia, "Identification of 1BL.1RS and 1AL.1RS Wheat-Rye Translocations in some Iranian Bread Wheat Cultivars, Using Specific PCR", M.Sc. Sep, 2012.
- 15) H. Hatami-Malaki, "Genetic Variation and Identification of QTLs Controlling Chlorine Accumulation in Oriental Tobacco (*Nicotiana tabacum*) Leaf", Ph.D., Sep, 2012. (Now Asst. Prof. in Univ. of Maragheh, Maragheh, Iran)
- 16) M. Ahmadi-Roushan, "Cytogenetic Variation in some Species of Fritillaria (*Fritillaria* sp.) Flower", M.Sc. Jul, 2012.
- 17) S. Farhadi, "Influence of some Abiotic Treatments on Programmed Cell Death in Rose (*Rosa hybrida* cv. Dolce vita+) Flower", M.Sc. Jun, 2012.
- 18) R. Ramazanizadeh, "Study of Chemical and Physical Treatments on Programmed Cell Death in Rose (*Rosa hybrida* cv. Dolce vita +) Cut Flower", M.Sc. Jul, 2011.
- 19) S. Salaripour, "Cell Synchronization Induction in Oriental Tobacco (*Nicotiana tabacum*)", M.Sc. Jul, 2011.
- 20) Z. Moieni, "Study of some Physiological Responses of Two Canola (*Brassica napus* L.) Cultivars to Low Temperature Stress", Jun, 2011.
- 21) D. Ebadi, "Cytogenetic Variation in some Isabgul (*Plantago ovata* Forsk.) Medicinal Plant Ecotypes", M.Sc. Jun, 2011.
- 22) M. Majdi, "Cloning and Characterization of *HMGR*, *GAS*, *DXR* and *IDS* Genes: Their Associated Expression with Parthenolide Biosynthesis in Feverfew (*Tanacetum Parthenium*) Medicinal Plant", Ph.D., Jun, 2011. (Now Assoc. Prof. in Kurdistan Univ., Sanandaj, Iran)
- 23) N. Tabibzadeh, "Identification of 1BL.1RS and 1AL.1RS Wheat-Rye Translocations in some Iranian Wheat, Using DNA Markers and SDS-PAGE", M.Sc. Jul, 2010.
- 24) Sh. Fahimirad, "Study of some Morphological and Physiological Responses on Two Canola (*Brassica napus* L.) Cultivars to Low Temperature", M.Sc., Mar, 2010.
- 25) S. Jahanbakhsh-Godehkahriz, "Study of Cold Tolerance in Two Winter and Spring Bread Wheat Cultivars, Using Proteomics Techniques: Identification and Molecular Analysis of Related Genes", Ph.D., Sep, 2009. (Now Full Prof. in Mohaghegh-Ardabili Univ., Ardabil, Iran)
- 26) S. Rajabi, "Study of Salinity Tolerance on some Winter Canola (*Brassica napus* L.) Cultivars", M.Sc., Feb, 2009.
- 27) G. Mirzaghaderi, "Cytological Study of Hybrids Derived from Common Wheat and *Triticum* by Fluorescence *In Situ* Hybridization", Ph.D. Dec, 2008. (Now Assoc. Prof. in Kurdistan Univ., Sanandaj, Iran)
- 28) M. Danesh, "Morphological and Cytogenetic Variations in some Grasspea (*Lathyrus sativus* L.) Genotypes", M.Sc., Jul, 2008.

- 29) H. Mousavi, "Study on Karyotypic and Genomic DNA Amount Variations in some Iranian Endemic *Cucumis melo* var. *inodorus* genotypes", M.Sc., Jun, 2008.
- 30) S. Afkar, "Study on Genetic Variations of some *Festuca arundinacea* Genotypes, Using Morphological Traits, Seed Proteins and DNA C-value proportion", M.Sc., Jun, 2007.
- 31) N. Javadian, "Study on Protein, Enzyme, Proline and Carbohydrate under Cold Stress in Bread Wheat", M.Sc., Mar, 2007.
- 32) Z. Hosseini, "Autopolyploid Formation of *Pleurotus ostreatus* by Colchicine Treatment", M.Sc., Feb, 2006.
- 33) S. Mahdavi, "Morphologic, Karyotypic and Genomic DNA Variations in some Thyme Medicinal Plant Species (*Thymus spp.*)", M.Sc., Feb, 2006.
- 34) M. Majdi, "Effects of Exogenous Calcium and Low Temperature on the Quantity and Electrophoretic Patterns of Leaf Soluble Proteins in Cold Tolerant and Susceptible Wheat Genotypes", M.Sc., Feb, 2006.
- 35) R. Paknia, "Cytogenetic and Morphological Variations in a Number of Iranian Native Onion (*Allium cepa* L.) Populations", M.Sc., Feb, 2005.
- 36) S. Jahanbakhsh-Godehkahriz, "Effect of a Vernalization Temperature on Quantitative Amount and Electrophoretic Patterns of Leaf Soluble Proteins in Spring and Winter Wheat Genotypes", M.Sc., Sep, 2004.
- 37) F. Akbari, "Cytogenetic Studies in some Canola Genotypes", M.Sc., Feb, 2004.
- 38) S. Ghaffaripour, "Cytogenetic and Morphologic Studies in some Hull-less Barley (*Hordeum vulgare* L.) Genotypes", M.Sc., Feb, 2004.
- 39) Biranvand, "Effect of a Vernalization Temperature on Quantitative Amount and Electrophoretic Patterns of Leaf Soluble Proteins and on Chlorophyll Fluorescence of Spring and Winter Canola (*Brassica napus* L.) Cultivars", M.Sc., Mar, 2003.
- 40) S. Yazdanseta, "Cytogenetic Studies in some Hull-less Barley (*Hordeum vulgare* L.) Genotypes", M.Sc., Feb, 2003.
- 41) K. Bagheri, "Study of Protein Changes in Calli Established from Spring and Winter Wheat Cultivars in Response to Temperature Alteration", M.Sc., Dec, 2000.
- 42) R. Darvishzadeh, "Study on Qualitative and Quantitative Protein Changes of Spring and Winter Barley Cultivars in Response to Cold Stress", M.Sc., Nov, 2000. (Now Full Prof. in Urmia Univ., Urmia, Iran)
- 43) G. R. Sharifi-Sirchi, "The Effect of Temperature on Electrophoretic Protein Patterns of Spring and Winter Wheat Cultivars", M.Sc., Nov, 2000.
- 44) J. Basati-Carvaneh, "Study on Resistance to Powdery Mildew in Beta Genera Population and its Effects on Quality and Quantity of Yield", M.Sc., Mar, 1999.

XI. Research Students Co-Supervised:

- 1) S. Asadi, "Effects of Indole Acetic Acid, Absciscic Acid, Casein hydrolysate and some Amino Acids in Anther Culture of Bell Pepper (*Capsicum annuum* L.)", M.Sc., Dept. of Plant Genetics and Breeding, College of Agriculture, [Tarbiat Modares Univ.](#), Sep, 2023.

- 2) S. Kadkhodaei, "Morphological, Biochemical, and Cytological Evaluation of Promising Genotype A95 in Compare with some European (*Pyrus communis* L.) and Asian (*Pyrus serotina* Rhd.) Pear Cultivars". Ph.D., Horticultural Sciences Dept., College of Agriculture, [Tarbiat Modares Univ.](#), Sep, 2021.
- 3) A. Gheydi, "Fisibility Induction of Autopolyploidy in Medicinal Plant Burdock (*Arctium lappa* L.)", M.Sc., Horticultural Sciences Dept., Science and Research Branch, Islamic Azad Univ., Feb, 2018.
- 4) M. Ghaffari, "Fisibility of Autopolyploidy Induction in *Origanum vulgare* ssp. hirtum L., using Colchicine with Ultimate Goal of Vegetative Yield Enhancement", M.Sc., Horticultural Sciences Dept., Science and Research Branch, Islamic Azad Univ., Feb, 2018.
- 5) M. Joodaki, "Cytogenetic and Morphological Variation in some *Eremurus* Populations in Iran)". M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Jul, 2017.
- 6) S. Sarikhani Khorami, "Morphological, Biochemical, Cytological and Molecular Evaluation of Walnut (*Juglas regia* L.) Superior Genotypes in Iran". Ph.D., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Jan, 2017.
- 7) M. Asadi, "Adaptation, growth, and yield of Arnica (*Arnica* spp.) and Effect of Colchicine and Gamma Radiation on Growth Characteristics". M.Sc., Horticultural Sciences Dept., Medicinal Plants and Drugs Research Institute, Shahid Beheshti Univ., Jan, 2017.
- 8) Kh. Shirkoool, "Study on Polyploidy Induction in Ajwan (*Trachyspermum ammi* L.) Medicinal Plant to Evaluate Changes in Thymol Secondary Metabolite". M.Sc., College of Aburaihan, Univ. of Tehran, Sep, 2016.
- 9) E. Rabieian "Induction of Polyploidy in Diploid and Tetraploid Wheat". M.Sc., Agricultural College, Univ. of Tehran, Sep, 2016.
- 10) M. Abbasi, "The Role of *Arabidopsis thaliana* Purple Acid Phosphatase 17 and 26 in Salt Stress Tolerance". M.Sc., Mar, 2016.
- 11) S. Alipour, "Tetraploidy Induction on Hairy Roots of Purple Coneflower (*Echinacea pupurea* L.)". M.Sc., Feb, 2016.
- 12) P. Eynizadeh, "Investigation of Drought Tolerance in some Iranian Endemic Coriander (*Coriandrum sativum* L.)". M.Sc., Feb, 2015.
- 13) S. Nayeibi. "Isolation and Cloning of Putative *R2R3MYB* Transcription Factor in *Papaver somniferum* L.". M.Sc., Jul, 2015.
- 14) M. Bamneshin, "Effect of Biotic and Abiotic Elicitors on some Genes Expression involved in Taxol Production in Cell Suspension Cultures of *Taxus baccata*". Ph.D., Plant Biotechnology, [Univ. of Guilan](#), Approved proposal, Sep, 2015.
- 15) S. Talebi, "Induction of Polyploidy in *Thymus vulgaris* and Karyotyping of Iranian Populations of *Thymus*". M.Sc., Agricultural College, Univ. of Tehran, Sep, 2014.
- 16) M. Tavan, "Polyploidy Induction in Iranian Endemic Thyme (*Thymus persicus*) in *In vitro* Culture and its Effect on Morphological Characters and Triterpenoids Product". M.Sc., Horticultural Sciences Dept., Medicinal Plants and Drugs Research Institute, Shahid Beheshti Univ., Sep, 2014.

- 17) H. Sabzalipoor, "Heterologous Expression of *Arabidopsis thaliana* AtPAP26 Gene in Rapeseed (*Brassica napus* L.)". M.Sc., Sep, 2014.
- 18) Sh. Faramarzi, "Study of Physicochemical, Phytochemical and Genome Size in Red Fleshed Apples and Golab Cultivars". Ph.D., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Sep, 2014.
- 19) T. Roshani, "Study the Effects of 1-MCP and Nanosilver on Vase Life and Quality of Cut Carnation (*Dianthus caryophyllus*) Flower". M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Jun, 2014.
- 20) R. Mohammadi, "Study on Inheritance, Combining Ability and Estimation of Gene Effects for Quantitative Traits in Iranian Endemic Cantaloupe (*Cucumis melo* L.) Populations". Ph.D., Feb, 2014.
- 21) R. Jafari, "Cytogenetic Study of some *Fritillaria* (*Fritillaria spp.*) Species in Iran". M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Feb, 2013.
- 22) R. Abedi, "Cytogenetic Variation in some Tulipa (*Tulipa sp.*) Species in Iran". M.Sc. in Horticultural Sciences, Feb, 2013.
- 23) M. Salmaninejad, "Effects of Light, Salinity and Temperature on Chromosome Variation of *Dunaliella salina* in Urmia Lake, Iran". M.Sc., Marine Biology Dept., Fac. of Natural Resources and Marine Sciences, [Tarbiat Modares Univ.](#), Jul, 2012.
- 24) Kh. Sabouri, "Study of Human Proinsulin Gene Expression in Transformed Tobacco (*Nicotiana tabacum*)". M.Sc., Sep, 2011.
- 25) R. Jafari, "Micropropagation of *Eustoma grandifluorum* in *In Vitro* Condition". M.Sc., Jun, 2011.
- 26) Yaghtin, "Transformations of Human Interferon δ -Oleocine Gene to Sufflower (*Carthamus tinctorius* L.)". M.Sc., Jun, 2011.
- 27) A. Rezalo, "Effect of Climatic Factors on Morphological, Physiological and Phytochemical Properties of Medicinal Custar Bean Plant (*Ricinus communis* L.)". M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Feb, 2010.
- 28) M. Khouang, "Effect of Chemical and Biotic Fertilizers on Fertility of flaxseed oil (*Linum usitatissimum*) Medicinal Plant", M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Feb, 2009.
- 29) M. Naghsh, "Study on Strawberry (*Fragaria* $\times$ *ananassa* Duch. Cvs. Pajaro and Paros) Meristem Culture in Runners and *in vitro* Plantlets", M.Sc., Feb, 2009.
- 30) K. Saeedi, "Effect of Climatic Factors on the Active Substances of Dog Rose (*Rosa canina* L.) in South West of Iran", M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Jan, 2009.
- 31) F. Fattahi, "The Effect of Harvest Time on Essential Oil Quatity and Quality of Lemon Thyme (*Thymus* $\times$ *citriodorus* (Pers.) Scherb)", M.Sc., Horticultural Sciences Dept., [Tarbiat Modares Univ.](#), Dec, 2008.
- 32) Z-S. Shobbar, "Molecular Analysis of Drought Stress Effect on Rice Panicle Exsertion", Ph.D., Dec, 2007.
- 33) S. M. Bagherian, "Production of Wheat Doubled Haploid Lines and Study on Mechanism of Cold Tolerance", Ph.D., Azad Univ., Tehran, Nov, 2007.

- 34) S. Khanamani Falahati Pour, "The Preliminary Study of Producing the Secondary *Tritipyrum* Lines and Investigation of their Chromosome Constitution by Genomic *in situ* Hybridization (GISH)", M.Sc., Shahid Bahonar University of Kerman, Aug, 2007.
- 35) S. Khavari Khorasani, "Study of Androgenesis and Culture of Immature Zygotic Embryos in some of Maize Genotypes and Use of Haploidy for Gene Transfer", Ph.D., Jan, 2006.
- 36) Zebarjadi, "Investigation on the Effect of Sense and Antisense Constructs of β -Ketoacyl-CoA Synthase (KCS) Gene on Erucic Acid Production in Rapeseed (*Brassica napus*)", Ph.D., Sep, 2005.
- 37) D. Kahrizi, "Transfer of Manipulated Construct of EPSPS Enzyme to Rapeseed (*Brassica napus*) Plant for Inducing Glyphosate Resistance and Molecular Analysis of Transgenic Plants", Ph.D., Jun, 2005.
- 38) P. Jahanipour, "Optimization of Plantlet Regeneration in Isolated Microspore Culture of Rapeseed (*Brassica napus* L.)", M.Sc., Mar, 2005.
- 39) P. Haddadi, "Effects of GA3, Embryo desiccation, ABA, Type of Container on Plant Regeneration in Isolated Microspore Culture of Rapeseed (*Brassica napus* L.)", M.Sc., Feb, 2005.
- 40) M. Sahebi, "Morphologic and Cytogenetic Variations in Rose", M.Sc., Azad Univ., Tehran, Jun, 2004.
- 41) S. Ashkani, "Cytogenetic Studies of some Iranian Wild Wheat Species (*Aegilops*) and Determining their Chromosomal Bandings", M.Sc., Azad Univ., Tehran, Dec, 2003.
- 42) Sh. Jahanbeen, "Effects of Drought, Temperature and Salinity on the Physiological Indices and the Yield of Hull-less Barley (*Hordeum vulgare* L.)", Ph.D., Sep, 2003.
- 43) M. A. Nejatian, "Study on Genetic Diversity of some Local Iranian Apricot (*Prunus armeniaca* L.) Cultivars", Ph.D., Mar, 2003.
- 44) M. R. Pirmoradi, "Study of Root Cutting Methods on the Yield and the Survival of *Ferula assa-foetida*", M.Sc., Jan, 2003.
- 45) Y. Khonji, "Study on Androgenesis in some Rapeseed (*Brassica napus* L.) and Hexaploid Wheat (*Triticum aestivum* L.) cultivars", M.Sc., Mar, 2002.
- 46) H. Khosh-Ghalb, "Study on Early Growth, Performance and Survival of some Asian Pear Cultivars (*Pyrus serotina* Rehd) on European Pear (*Pyrus communis*) Seedling Rootstocks under Tehran Environmental Condotions", M.Sc., Jan, 2002.
- 47) Azizpour, "Genetic Analysis of Crown Wart (*Eruophelyctis leproides*) Resistance in Sugar Beet", M.Sc., Oct, 2001.
- 48) H. Aroiee, "The Effect of Seed Priming, Salt Stress and N-fertilizer on some Quantitative and Qualitative Characteristics of Naked Seed Pumpkin (*Cucurbita pepo* var. *Styriaca*)", Ph.D., Mar, 2001.
- 49) M. Mohebbi, "Effects of Sowing Date and N-Fertilizer on Growth, Development, Yield and Active Substances of Isabgol (*Plantago ovata* Forsk) in Zanzan Region", M.Sc., Dec, 2000.
- 50) D. Bakhshi, "Effects of Irrigation and Plant Density on the Growth, Development, Yield and Effective Oil of Milkthistle (*Silybum marianum*)", Mar, 2000.

- 51) S. Daghighi, "Study the Propagation Methods of Jujube Tree (*Zizyphus 42ujube Mill*)", M.Sc., Feb, 2000.
- 52) M. Khodarahmi, "Study on Inheritance of Stripe (Yellow) Rust Resistance in Wheat Cultivars", M.Sc., Feb, 2000.
- 53) M. Abedini-Esfahlani, "Genetic Analysis of Resistance to *Fusarium* Head Blight in Hexaploid Wheat Cultivars", M.Sc., Jan, 2000.
- 54) K. Arjomandi, "The Effect of Nitrogen and Phosphorous on Growth and Development, Yield and Active Substance Content of Thyme (*Thymus vulgaris*)", M.Sc., Oct, 1999.
- 55) Zebarjadi, "Study on Genetic and Cytogenetic Variation in Bromus (*Bromus tomentellus* L.) Population", M.Sc., Oct, 1999.

XII. Courses Taught:

- 1) Demonstrations in Plant Cytogenetics, Computing, Statistics (Minitab Software), Cell Biology, Genetics & Botany, B.Sc., [Cardiff Univ., Cardiff, UK](#)
- 2) Plant Cytogenetics, Plant Genetics and Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 3) Plant Cytogenetics, Agricultural Biotechnology Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 4) Plant Cytogenetics, Horticultural Sciences Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 5) Plant Cytogenetics, Plant Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 1) Plant Cytogenetics, Plant Breeding Course, M.Sc., [Islamic Azad Univ.](#), Borujerd Branch, Borujerd, Iran
- 6) Plant Cytogenetics, Plant Breeding Course, M.Sc., [Kerman Graduate Univ. of Technology](#), Mahan, Iran
- 2) Plant Cytogenetics, Biotechnology Course, M.Sc., [Kerman Graduate Univ. of Technology](#), Mahan, Iran
- 3) Advanced Cytogenetics, Plant Genetics and Breeding Course, Ph.D., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 4) Advanced Cytogenetics, Agricultural Biotechnology Course, Ph.D., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 5) Methodology of Research, Plant Genetics and Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 6) Methodology of Research, Plant Genetics and Breeding Course, Ph.D., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 7) Methodology of Research, Sea Biology, Grassland, Wood Science and Industry, Watershed, Forestry & Fishery Courses, M.Sc., Faculty of Natural Resources & Marine Sciences, [Tarbiat Modares Univ.](#), Nur, Iran
- 8) Methodology of Research, Plant Breeding Course, M.Sc., [Univ. of Tehran](#), Tehran, Iran

- 9) Methodology of Research, Animal Sciences Course, M.Sc., [Ilam Univ.](#), Ilam, Iran
- 10) Applied Plant Breeding, Plant Genetics and Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 11) Special Problem, Plant Genetics and Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 12) Computer Application in Statistical Analysis, Plant Genetics and Breeding Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran
- 13) Computer Application in Biotechnology, Agricultural Biotechnology Course, M.Sc., College of Agriculture, [Tarbiat Modares Univ.](#), Tehran, Iran

XIII. Referees:

- [Prof. Dr B. Barnabás \(B.Sc., M.Sc., Ph.D., D.Sc.\)](#), Head of Cell Biology Department of [Agricultural Research Institute of the Hungarian Academy of Sciences, Martonvasar](#), Hungary.
- [Prof. D. Francis \(B.Sc., Ph.D., D.Sc.\)](#), Reader in Plant Science, [Cardiff School of Biosciences](#), Cardiff Univ., UK.
- [Dr M. S. Davies \(B.Sc., Ph.D.\)](#), Senior Lecturer, [Cardiff School of Biosciences](#), Cardiff Univ., UK.

XIV. Others:

- Spending 6-month Sabbatical Leave period (March to September 2013) with Prof. João Loureiro, [FLOWer Lab, Centre for Functional Ecology, Department of Life Sciences, Faculty of Sciences and Technology, University of Coimbra, Portugal](#).
- Patent No. 56694 dated January 28, 2009, "Induction and Introduction of a Tetraploid Medicinal-Ornamental Feverfew (*Tanacetum parthenium*) Plant using Colchicine".
- Workshop attained: The 5-Day Workshop on "Proteomics" held at Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran, 7-11 Jun, 2004.
- Training course attained: The 2-week practical course on "Application of Genetic Engineering in Agriculture" held at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan, 16-27 Feb, 1998.