Curriculum Vitae
Mohammad Reza Naghavi, Professor

PERSONAL DETAILS

Name: Mohammad Reza
Family name: Naghavi
Marital Status: married
Date of Birth: 24/08/1971

Current mailing address:
Agricultural and Natural Resource College,
University of Tehran
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ACADEMIC QUALIFICATION
(Qualification) (Year), (Field), (Institution)

- BSc (1990-1994), Agronomy and Plant Breeding, Isfahan University of Technology (Iran)
- MSc (1994-1996), Plant Breeding, University of Tehran (Iran)
- PhD (1996-2001), Plant Breeding - Biotechnology, University of Tehran (Iran)

AWARD and HONOR
(Name of Award/Honor), (Awarding Institution), (Year Awarded)

- First rank post graduate student (MSc and PhD), University of Tehran, 1997 (MSc) and 2001 (PhD)
- Young Researcher, Kharazmi Youth Award, 2001.
- Prominent Researcher, Ministry of Science, Research and Technology, 2009, 3th Research Festival.
- Privileged Researcher, 20th Research Festival, University of Tehran, 2011
- Selected Candidate Award, 2th Learning Festival, University of Tehran, 2013

- Selected Candidate Award, 4th International Day Festival, University of Tehran, 2014
- Prominent Researcher, 24th Research Festival, University of Tehran, 2015
- Mobility scholarship for University of Warsaw, Erasmus Mundus (Euro countries), 2015
- Prominent Researcher, 18th Eviceana Festival, Tehran University of Medical Sciences, 2016
- Guest Researcher in the Wageningen University, NOW, Netherlands, 2019.
- Prominent Researcher, Alborz Stat, Iran, 2023.
- Al-Shaykh Al-Mufid Award, National Elite Foundation 2024.
- Prominent researcher in collaboration with industry, Ministry of Science, Research and Technology, 25th Research Festival, 2025

Principal Positions and Appointments

(Role), (Level)

- Head of Agricultural Biotechnology Department (2009-2012), Agricultural & Natural Resources College, University of Tehran
- Dean of Agricultural Science and Technology College (2012-2013), Agricultural & Natural Resources College, University of Tehran
- Director in Research and Technology (2013-2018), Agricultural & Natural Resources College, University of Tehran
- Head of Intellectual Properties Office (2018 -2020), University of Tehran, since 2019.
- Director General in Research Planning and Supervision (2018 -2024), University of Tehran.

AREA OF EXPERTISE

Metabolite Engineering of medicinal plants
Plant Biochemistry and Molecular Biology
Bioinformatics
Biotechnology

TEACHING

(Course Title), (Level of Study), (Institution), (Academic Session)

Application of Computer in Biotechnology, Post Graduate (MSc), Tehran University

Bioinformatic, Post Graduate (PhD), Tehran University

Advanced Genetics, Post Graduate (MSc), Tehran University

Genomics, Post Graduate (MSc), Tehran University

Research Grants Received (In Charge of the Grants)

(Project title), (Year), (Organization), (Grant number)

- Analysis of *Aegilops tauschii* germplasm using AFLP and SSR markers (2005-2006). The International Foundation for Science (IFS), (Sweden). Grant number: C/3858-1 (12000 USD).
- Genetic diversity in Chickpea germplasm collection using SSR markers. 2008, GCP GRANT (Mexico).
- Evaluation of genetic diversity in Iranian *Medicago sativa* from Iran using molecular and morphological markers. 2009, Ministry of Jehad-e-Agriculture (Iran).
- Evaluation the expression of some genes involved in Artemisinin production in some species of *Artemisia* (2011-2013). Iran National Science Foundation (INSF), Iran. Grant number: 90002271.
- Pre-purification of Taxol from crude extract using nano-adsorbents (2013-2014). Iran National Science Foundation (INSF), Iran. Grant number: 91058040.
- Transcriptome analysis of *Chelidonium majus* for evaluating the genes involved in Chelidonine (2015-2017). Alborz University of Medical science. Grant number: 4074074.
- Metabolic engineering strategies in medicinal plants to produce valuable medicinal products (2016- 2018). Iran National Science Foundation (INSF), Iran. Grant number: 48418.
- Cultivation of Russian dandelion plant in order to extract natural rubber from its root (2019-2022). Barez Industrial Group. Grant number: 2858.
- Investigating and comparing the expression of some genes of the inulin biosynthesis pathway in Cichorium endivia species. Alborz University of Medical science. Grant number: 107515.
- Traditional and biotechnological methods in the production of natural rubber from plant sources (2021-2022). National Elites Foundation. Grant number: 62601.
- Genome-assisted discovery of sesquiterpenes biosynthesis from *Ferula* species, their bioengineering production and anti-Pancreatic cancer activity (2022- present). Chinese Academy of Sciences. Grant number: 4002289. (340000 USD).

- Increasing the medicinal taxane production, especially Taxol, and commercialization of production using bioreactors (2022-present). Iran National Innovation Fund.
- Roses, color and fragrance genes (2020- present). Center for International Scientific Studies and Collaboration (CISSC). Grant number: 1586.
- Overexpression of rate-limiting enzymes, DBTNBT and DBAT, in Taxus cell suspension culture using CRISPR-Cas9 system as a successful strategy for a substantial increase in Taxol (2023-Present). International Center for Genetic Engineering and Biotechnology, Italy. Grant number: GRP/IRN22-03.
- Domestication and sustainable use of high-value medicinal herbs as niche agricultural products: A transition from ethnobotany into mainstream agriculture (2023-Present). Rudn, Russia. Grant number:
- Metabolic and gene expression analysis in Valeriana species under oxygen deficiency by hypobaric hypoxia and waterlogging. St Petersburg University, Russia.

PUBLICATIONS (SELECTED)

(Title of publication in APA style)

BOOKS

Naghavi MR, Mokhtari A (2023-2024) Strategy in Plant Omics Studies (In persian). University of Tehran Press. 400 pages

Nagahvi, MR, Gharieazi B, Salkedeh G.H. (2015) Molecular Markers (In Persian) University of Tehran Press, 520 Pages.

Naghavi, MR, Malbobi M, Rashidi Monfared S (2010) Bioinformatics (In Persian) University of Tehran Press, 430 Pages.

Chandera S, Lata H., Varma A (2013) Biotechnology for medicinal Plants micropropagation and improvement. Translated in Persian by: **Naghavi MR**, Aryakia A, Nasiri J. University of Tehran Press, 550 Pages.

BOOK CHAPTER

Salehi, m., Bahmankar M., **Naghavi M.R.** (2023) **Taraxacum Kok-Saghys** as a Strong Candidate Alternative Natural Rubber Crop in Temperate Regions in the Case of Emergency. In: Plant Physiology Annual Volume 2023. IntechOpen Press.

Nasiri, J. **Naghavi M.R.**, Shah Nejat Boushahri A.A, and Nasiri M. (2014). Application of Loop-Mediated Isothermal Amplification (LAMP) and Its Alternatives

in Plant Diagnosis Approaches. In: Biotechnology. Studium. New Delhi: Studium Press LLC.

PATENT

- Synthesis and application of nano-adsorbents towards purification of Taxol from needles-derived extracts of *Taxus baccata*. 2015. Patent No. in Iran:

- HBsAg expression vector in spirulina (Arthrospira sp.) with oral safety (no antibiotic marker) and its applications . 2019, Patent No. in Iran: 102430

- Multi-host plasmid-transposon composite vector expressing HBsAg, GFP and resistance to Kan (in bacteria and cyanobacteria) and its applications. 2019, Patent No. in Iran: 102397

- Vector capable of expression and purification of HBsAg in bacteria and cyanobacteria and its applications. 2019, Patent No. in Iran: 102399

PUBLISHED RESEARCH PAPERS IN INTERNATIONAL JOURNALS (Selected)

Rahmani, MS., **Naghavi, MR.**, Shahnejat-Bushehri, AA. Lars-Gernot Otto,Servet Caliskan & Safa Balekoglu (2025) Provenance-based responses of beneh (*Pistacia atlantica* subsp. *kurdica*) seedlings to drought stress: insights into morpho-physiological and molecular climate adaptation strategies. *Trees* **39**, 63. https://doi.org/10.1007/s00468-025-02641-x

Kamali Dehghan A., Zargar M., Bamneshin M., Mahmoudieh M., Safaie N., Jun Li Yang and **M.R. Naghavi** (2025) The effects of Fusarium graminearum cell extracts and culture filtrates on the production of paclitaxel and 10-deacetylbaccatin III in suspension cell cultures of Taxus baccata L. BMC Plant Biology, 25:229.

Chun-Yan Sang, Jia-Rong Liu, **Mohammad Reza Naghavi**, Yi-Dan Zheng, Tian Chai, Komila Eshbakova Alibekovna , Jiao-Tai Shi, Boymirzaev Azamat Solievich, Jun-Li Yang (2025) Obacunone potentiated PD-1 immunotherapy in pancreatic cancer by mediating CD36. European Journal of Pharmacology, 994, 177367.

Mahmoudieh M., Jariani, P., Kamali Dehghan A., Karimi M.R., Vadipour F., Jahani M., Mahbubur Rahman M., **Naghavi M.R.** (2025) The future of rubber production: a review of genetic regulation of biosynthetic pathways and genome editing technologies in natural rubber-producing plants. Tree Genetics & Genomes (2025) 21:6.

Jariani P., Shahnejat-Bushehri A.A., Naderi R., Zargar M., Naghavi M.R. (2025) Decoding the aroma of Rosa canina L.: Chemical composition and gene expression. PLoS ONE 20(1): e0316324.

Jariani, P., **Naghavi, M.R.** (2025) Hairy roots as a platform for recombinant protein expression and secondary metabolite production: current status and future prospects. In Vitro Cellular & Developmental Biology **61**, 25–41.

Hemmati-Gougeh, R., Fatahi, R., Shokrpour, M. **Naghavi M.R.,** Varshochi A., Sallom A. (2025) Developing a New Culture Medium to Optimize the Micro-propagation of Six Commercial Hazelnuts (*Corylus avellana* L.) Cultivars. Journal of Plant Growth Regulation **44**, 943–958 (2025).

Asheri M., Farokhzad A., **Naghavi M.R.**, Ghasemzadeh R., Azadi P., Zargar M. (2024) Methyl jasmonate improves rubber production and quality in *Lactuca Serriola*. Scientific Reports 14:26837.

Aghaali, Z., **Naghavi, M.R.** (2024) Developing benzylisoquinoline alkaloid-enriched opium poppy via CRISPR-directed genome editing: A review. BMC Plant Biology 24, 700 (2024).

Bakhtiar Z., Hassandokht M., **Naghavi M.R.**, Rezadoost H., Mirjalili M.H. (2024) Fatty acid and nutrient profiles, diosgenin and trigonelline contents, mineral composition, and antioxidant activity of the seed of some Iranian Trigonella L. species. BMC Plant Biology, 24:669.

Jariani P., Shahnejat-Bushehri SN., Naderi R., Zargar M., **Naghavi MR** (2024) Characterization of key genes in anthocyanin and flavonoid biosynthesis during floral development in Rosa canina L. International Journal of Biological Macromolecules. 276, 133937.

Rahmati R., Nemati Z., **M.R. Naghavi**, S. Pfanzelt, A. Rahimi, A. G. Kanzagh, F.R. Blattner (2024) Phylogeography and genetic structure of Papaver bracteatum populations in Iran based on genotyping-by-sequencing (GBS). Scientific Reports, 14:16309.

Karimi, MR, Jariani P., N**aghavi MR** (2024) A comprehensive review of the molecular and genetic mechanisms underlying gum and resin synthesis in Ferula species. International Journal of Biological Macromolecules. 269, 132168.

Jariani P., Shahnejat-Bushehri SN., Naderi R., Zargar M., **Naghavi MR** (2024) Molecular and Phytochemical Characteristics of Flower Color and Scent Compounds in Dog Rose (*Rosa canina* L.). Molecules, 29, 3145.

khaldari, I., **Naghavi, M.R**., Motamedi, E. *et al.* The effects of green and chemically-synthesized copper oxide nanoparticles on the production and gene expression of morphinan alkaloids in Oriental poppy. Scientific Reports **14**, 6000 (2024).

Karami, M. **Naghavi, M.R.**, Nasiri J., Farzin N., Ignea C. (2024) Enhanced production of withaferin a from the hairy root culture of *Withania somnifera* via

synergistic effect of Methyl jasmonate and β-cyclodextrin. Plant Physiology and Biochemistry, 208: 108440.

Aghaali Z., Naghavi M.R. Zargar M. (2024) Collaboration of hairy root culture and scale-up strategies for enhancing the biosynthesis of medicinal and defensive alkaloids in Papaver sp.Current Plant Biology 40 (2024) 100381.

Asadi, M., Nazarian-Firouzabadi, F., **Naghavi, M.R.** *et al.* (2024) Identifying miRNAs and target genes associated with Allicin synthesis in *Allium* species. Journal of Plant Biochemistry and Biotechnology.

Nasiri J, Soorni A, van Dijk A. D. J., **Naghavi, M.R.** (2024) Terpenoid Biosynthetic Pathway in Ferula persica Using Transcriptome Analysis and Metabolome Data. Journal of Agricultural Science and Technology, 26(1): 177-192.

Mofidi SSH, **Naghavi M. R.**, Sabokdast M, Jariani P, Zargar M, Cornish K (2024) Effect of drought stress on natural rubber biosynthesis and quality in *Taraxacum kok-saghyz* roots. PLoS ONE 19(1): e0295694.

Kiani H.S., Noudehi M.S., Shokrpour M., Zargar M., **Naghavi M.R.** (2024) Investigation of genes involved in scent and color production in *Rosa damascena* Mill. Sci Rep. 4;14(1):20576.

Jariani, P., Shahnejat-Bushehri, AA., Naderi, R. , **Naghavi, M.R.** Mofidi, S. (2024) Identification of miRNAs and Their Target Genes Involved in the Biosynthesis of Flower Color and Scent in *Rosa canina* L.. Iran Journal of Science 48, 31–43 (2024).

Bakhtiar Z, Hassandokht M.R., **Naghavi M.R.**, Mirjalili M.H., (2024) Variability in proximate composition, phytochemical traits and antioxidant properties of Iranian agro-ecotypic populations of fenugreek (*Trigonella foenum-graecum* L.). Scientific Reports, 14:87.

Bakhtiar Z, Hassandokht M.R., **Naghavi M.R.**, Mirjalili M.H., (2024) Phenotypical, genetic structure, and essential oil characteristics of twenty *Ocimum basilicum* L. agro-ecotypic populations from Iran. Scientia Horticulturae, 326, 112748.

Aghaali, Z., **Naghavi M.R.** (2023) Engineering of CYP82Y1, a cytochrome P450 monooxygenase: a key enzyme in noscapine biosynthesis in opium poppy. Biochemical Journal, 480 (23): 2009–2022.

Ahadi, H., Shokrpour M., Fatahi R., **Naghavi M.R.,** Mirjalili M.H.(2023) Essential oil, flavonoids and anthocyanins profiling of some Iranian damask rose (*Rosa damascena* Mill.) genotypes. Industrial Crops & Products 205: 117579.

Rahmani, MS., **Naghavi, MR**., Bushehri, AA.S. *et al.* (2023) Phenotyping and genotyping of *Pistacia atlantica* Desf. subsp. *kurdica* along an environmental gradient in the semi-arid forests of western and southern Iran. *Tree Genetics & Genomes* **19**, 46.

Aghaali, Z., **Naghavi, M.R.** (2023) Biotechnological Approaches for Enhancing Polyhydroxyalkanoates (PHAs) Production: Current and Future Perspectives. Current Microbiology **80**, 345.

Asadi S., Moghaddam H., Naghdi Badi H., **Naghavi M.R.** and Salami S.A. (2023) Agronomic, phytochemical and drought tolerance evaluation of Iranian cannabis (*Cannabis sativa* L.) ecotypes under different soil moisture levels: a step towards identifying pharmaceutical and industrial populations. Crop & Pasture Science 74(12) 1238-1257.

Jia-Lin Wang, Chun-Yan Sang, Jun Wang, Pei-Lin Li, Tian Chai, **Naghavi, M.R**., Ya-Min Zhao Jun-Li Yang(2023) Sesquiterpene coumarins from *Ferula sinkiangensis* and their anti-pancreatic cancer effects. Phytochemistry, 214: 113824.

Saeedi, F., **Naghavi, M.R**., Sabokdast, M. *et al.* (2023) *Taraxacum kok-saghyz* L.E. Rodin, as a novel potential source of natural rubber in Iran: a good candidate for commercial use. Iran Polymer Journal **32**, 1257–1269

Bamneshin, M., Mirjalili, M. H., **Naghavi, M. R**., Cusido, R. M., & Palazón, J. (2022). Gene expression pattern and taxane biosynthesis in a cell suspension culture of Taxus baccata L. subjected to light and a phenylalanine ammonia lyase (PAL) inhibitor. Journal of Photochemistry and Photobiology B: Biology, 234, 112532.

Sayadi, V., Karimzadeh G., **Naghavi M.R**., Rashidi Monfared S., (2022) Interspecific Genome Size Variation of Iranian Endemic Allium Species (Amaryllidaceae). Cytologia 87(4): 335–338.

Zheng, Y. D., Ma, L. M., Lu, J. J., Chai, T., **Naghavi, M. R**., Ma, J. Y., ... & Yang, J. L. (2022). Nardoguaianone L Isolated from Nardostachys jatamansi Improved the Effect of Gemcitabine Chemotherapy via Regulating AGE Signaling Pathway in SW1990 Cells. Molecules, 27(20), 6849.

Ma, L.M., Wang, K., Meng, X.H., Zheng, Y.D., Wang, C.B., Chai, T., **Naghavi, M.R**., Sang, C.Y. and Yang, J.L. (2022). Terpenoids from Nardostachys jatamansi and their cytotoxic activity against human pancreatic cancer cell lines. Phytochemistry, 200, 113228.

Samadi, N., **Naghavi, M. R**., Moratalla-López, N., Alonso, G. L., & Shokrpour, M. (2022). Morphological, molecular and phytochemical variations induced by colchicine and EMS chemical mutagens in Crocus sativus L. Food Chemistry: Molecular Sciences, 4, 100086.

Karimi, A., **M. R. Naghavi**, S. A. Peyghambari, A. Sobhani, A. Rasoulnia (2022) "Identification of miRNAs and Their Target Genes in Taraxacum spp**."** Journal of Agricultural Science and Technology, 26 (6),.

Salehi, M., Bahmankar, M., & **Naghavi, M. R,** Cornish, K. (2022) Rubber and latex extraction processes for Taraxacum kok-saghyz. Industrial Crops and Products, 178, 114562.

Nemati, I., Sedghi, M., Salekdeh, G. H., Afshari, R. T., **Naghavi, M. R**., & Gholizadeh, S. (2022). DELAY OF GERMINATION 1 (DOG1) regulates dormancy in dimorphic seeds of Xanthium strumarium. Functional Plant Biology.

Mirahmadi, S. F., Hassandokht, M., Fatahi, R., **Naghavi, M. R**., & Rezaei, K. (2022). High and low oxalate content in spinach: an investigation of accumulation patterns. Journal of the Science of Food and Agriculture, 102(2), 836-843.

Bakhtiar, Z., Hassandokht, M.R., **Naghavi, M.R.**, Mirjalili, M.H. " Study of variability in agro-morphological traits, proximate composition, and phenolic compounds of some Trigonella L. species in Iran". Journal of Medicinal Plants, 21(82), pp. 1–12 (2022).

Hakimi, Y., Fatahi, R., Shokrpour, M., & **Naghavi, M. R**. (2022). Investigation of Germination Characteristics of Four Medicinal Plants Seed (Lavender, Hyssop, Black cumin and Scrophularia) Under Interaction Between Salinity Stress and Temperature Levels. Journal of Genetic Resources, 8(1), 35-45.

Samadi, N., **Naghavi, M. R**., Moratalla-López, N., Alonso, G. L., & Shokrpour, M. (2022). Morphological, molecular and phytochemical variations induced by colchicine and EMS chemical mutagens in Crocus sativus L. Food Chemistry: Molecular Sciences, 4, 100086.

Salehi, M., Cornish, K., Bahmankar, M., & **Naghavi, M. R.** "Natural rubber-producing sources, systems, and perspectives for breeding and biotechnology studies of *Taraxacum kok-saghyz*. Industrial Crops and Products", 170, 113667, (2021).

Karimi, A. A., **Naghavi, M. R**., Peyghambari, S. A., & Rasoulnia, A. (2021). Inulin content and expression of related genes in different tissues and cell suspension culture of Taraxacum kok-saghyz. In Vitro Cellular & Developmental Biology-Plant, 57(6), 1009-1017.

Sharifzadeh Naeini, M., **Naghavi, M. R**., Bihamta, M. R., Sabokdast, M., & Salehi, M. (2021). Production of some benzylisoquinoline alkaloids in Papaver armeniacum L. hairy root cultures elicited with salicylic acid and methyl jasmonate. In Vitro Cellular & Developmental Biology-Plant, 57(2), 261-271.

Sadeghi, L, Jamali, S., Naderpour, M., Asareh, M. H., Lahiji, H. S., & **Naghavi, M. R.** "Reactions of selected bean cultivars and accessions to Iranian populations of Meloidogyne javanica and race 2 of M. incognita." Crop Protection, 140, 105433 (2021).

Shaabani, J., Hossainzadeh, A., Zeinali, H., & **Naghavi, M. R.** "A field study on common bean (Phaseolus vulgaris) response to Tetranychus urticae herbivory". Plant Breeding. (2021).

Mohammadi, F., **Naghavi, M. R**., Peighambari, S. A., Khosravi Dehaghi, N., Khaldari, I., Bravi, E., ... & Perretti, G. (2021). Abscisic acid crosstalk with auxin and ethylene in biosynthesis and degradation of inulin-type fructans in chicory. Plant Biology, 23(4), 636-642.

Mohammadi, F., **Naghavi, M. R**., Peighambari, S. A., Dehaghi, N. K., Nasiri, J., Khaldari, I., ... & Perretti, G. (2021). Comparison of carbohydrate partitioning and expression patterns of some genes involved in carbohydrate biosynthesis pathways in annual and biennial species of Cichorium spp. Phytochemistry, 183, 112620.

Naeini, M. S., **Naghavi, M. R.,** Bihamta, M. R., Sabokdast, M., & Salehi, M. "Production of some benzylisoquinoline alkaloids in Papaver armeniacum L. hairy root cultures elicited with salicylic acid and methyl jasmonate". In Vitro Cellular & Developmental Biology-Plant, (2021), 57(2), 261-271.

Khaldari, I., **Naghavi, M. R.**, & Motamedi, E. (2021). Synthesis of green and pure copper oxide nanoparticles using two plant resources via solid-state route and their phytotoxicity assessment. RSC advances, 11(6), 3346-3353.

Mehravaran, L., Omidi, M., **Naghavi, M. R.,** & Fakheri, B. A. "Effect of Some Elicitors on Morphophysiological, Biochemical and Molecular Traits of Stevia". Russian Journal of Plant Physiology, (2021) 68(2), 347-355.

Hashemi, S. M., **Naghavi, M. R**., Ghorbani, M., Priyanatha, C., & Zandi, P. (2021). Effects of Abiotic Elicitors on Expression and Accumulation of Three Candidate Benzophenanthridine Alkaloids in Cultured Greater Celandine Cells. *Molecules*, *26*(5), 1395.

Esfahani, S. T., Karimzadeh, G., **Naghavi, M. R.**, & Vrieling, K. (2021). Altered gene expression and root thebaine production in polyploidized and methyl jasmonate-elicited Papaver bracteatum Lindl. Plant Physiology and Biochemistry, 158, 334-341.

Rahimi Sherbaf Moghadas, M., **Naghavi, M**., Sabokdast, M., Motemadi, E., & Nasiri, J. (2021). The effect of nano elicitors on the expression of the genes involved in alkaloids biosynthetic pathway in Papaver orientale L. suspension culture. Iranian Journal of Field Crop Science.

Fayyaz, E., Abbasi, A., **Naghavi, M.**, & Kheiri, H. (2021). Evaluation of phytochemical variation in the essential oils of Yarrow (Achillea spp.) originated from different regions of Iran. Iranian Journal of Field Crop Science, 52(3).

Sabzehzari, M., Zeinali, M., & **Naghavi, M. R**. (2020). CRISPR-based metabolic editing: next-generation metabolic engineering in plants. Gene, 144993.

Sabzehzari, M., Zeinali, M., & **Naghavi, M. R.** (2020). Alternative sources and metabolic engineering of Taxol: Advances and future perspectives. Biotechnology Advances, 43, 107569.

Zarei, H., Fakheri, B. A., **Naghavi, M. R**., & Mahdinezhad, N. (2020). Phylogenetic relationships of Iranian Allium species using the matK (cpDNA gene) region. Journal of Plant Biotechnology, 47(1), 15-25.

Ranjbar, M., **Naghavi, M. R.**, & Alizadeh, H. (2020). Chemical composition of the essential oils of Artemisia species from Iran: a comparative study using multivariate statistical analysis. Journal of Essential Oil Research, 32(4), 361-371.

Etehadpour, M., Fatahi, R., Zamani, Z., Golein, B., **Naghavi, M. R.,** & Gmitter, F. (2020). Evaluation of the salinity tolerance of Iranian citrus rootstocks using morph-physiological and molecular methods. Scientia Horticulturae, 261, 109012.

Yasaman, M., Abbaspour, H., Peyvandi, M., & **Naghavi, M. R**. (2020). Investigation of gene expression diversity in Hypericum spp. before and after flowering under different nitrogen fertilization levels. Acta agriculturae Slovenica, 116(1), 83-92.

Esfahani, S. T., Karimzadeh, G., & **Naghavi, M. R.** (2020). In vitro polyploidy induction in Persian Poppy (Papaver bracteatum Lindl.). Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics, 73(1).

Behzadirad, M., **Naghavi, M. R**., & Shahnejat Bushehri, A. A. (2020). Importance of Hormonal Elicitors in Inducing Morphine Biosynthesis in the Cell Culture of (Papaver bracteatum Lindl.). Journal of Agricultural Science and Technology, 22(1), 261-270.

Moghadas, M. R. S., Motamedi, E., Nasiri, J., **Naghavi, M. R**., & Sabokdast, M. (2020). Proficient dye removal from water using biogenic silver nanoparticles prepared through solid-state synthetic route. *Heliyon*, *6*(8), e04730.

Sabzehzari, M., **Naghavi, M. R**., Bozari, M., Orafai, H. M., Johnston, T. P., & Sahebkar, A. (2020). Pharmacological and therapeutic aspects of plants from the genus ferula: A comprehensive review. Mini Reviews in Medicinal Chemistry, 20(13), 1233-1257.

Sayadi, V., Karimzadeh, G., Rashidi Monfared, S., & **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. Plos one, 15(2), e0228747.

Salehi, M., **Naghavi, M. R**., & Bahmankar, M. (2019). A review of Ferula species: Biochemical characteristics, pharmaceutical and industrial applications, and suggestions for biotechnologists. Industrial Crops and Products, 139, 111511.

Salehi, M., Karimzadeh, G., & **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.

Mansouri, M., **Naghavi, M. R.,** Alizadeh, H., Mohammadi-Nejad, G., Mousavi, S. A., Salekdeh, G. H., & Tada, Y. (2019). Transcriptomic analysis of Aegilops tauschii during long-term salinity stress. Functional & Integrative Genomics, *19*(1), 13-28.

Amini, H., **Naghavi, M. R**., Shen, T., Wang, Y., Nasiri, J., Khan, I. A., ... & Maloof, J. N. (2019). Tissue-specific transcriptome analysis reveals candidate genes for terpenoid and phenylpropanoid metabolism in the medicinal plant *Ferula assafoetida*. *G3*: Genes, Genomes, Genetics, *9*(3), 807-816.

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PAPERS IN PERSIAN LANGUAGE IN IRANIAN JOURNALS

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SELECTED PRESENTATIONS (Speaker)

Expression of amorpha-411-diene synthase (ADS gene in Iranian Artemisia annua L. genotypes: 59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, 2011-08-23 to 2011-08-26, Antalya, Turkey, (International).

Assessment of Phytochemical and Molecular Patterns of F. Gummosa Landraces: Medicinal and aromatic plants in generating of new values in 21st century, 2011-11-09 to 2011-11-12, Slovakia, (International).

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Evaluation of Genetic Diversity in Calligonum Species from Iran using RAPD Markers: Current Pharmaceutical Biotechnology, 2012-01-21 to 2012-01-22, Arak, Iran, (International).

Assessment of Genetic Diversity in Hyoscyamus Sp. using AFLP: National Congress on Medicinal Plants: 2012-05-30 to 2012-05-31, Kish, Iran, (National).

The Comparison of Two Different Digestion Systems to Detect the Somaclonal Variation in Ducrosia Anethifolia: National Congress on Medicinal Plants: 2012-05-30 to 2012-05-31, Kish, Iran, (National).

QTL Mapping for Yield and Yield Components in Barley: ASA CSSA and SSSA International Annual meeting, 2012-10-21 to 2012-10-24, Cincinnati, United states of America, (International).

Investigation on Morphology and Root Yield of Chicory (C. INTYBUS) Lanraces for Inulin Production: 2nd National Congress on Medicinal Plants, 2013-05-15 to 2013-05-16, Tehran, Iran, (National).

Expression of Genes Involved in Artemisinin Biosynthesis in Eight Artemisia Species: 11th International meeting Biosynthesis, Function and Biotechnology of Isoprenoids in Terrestrial and Marine Organisms, 2013-06-01 to 2013-06-05, Turkey, (International).

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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: 3rd Global submit on Plant Science, 2017-08-07 to 2017-08-09, Rome, Italy, (International).

Expression of Genes Involved in Taxol Biosynthetic Pathway in Taxus Baccata L. and Application of Magnetic and Carbon-Based Nano-Adsorbents for Pre-Purification of Taxol: 9th International Conference and Exhibition on Metabolomics and System Biology, 2017-08-29 to 2017-08-30, Prague, Czech Republic, (International).

Biochemical and Molecular Characterization of Some Papaver Species from Iran, A Valuable Potency for Producing of Morphinan Alkaloids: World Biotechnology Congress, 2018-07-16 to 2018-07-17, Berlin, Germany, (International).

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