



Mansoureh Sedaghati

Research Institute of Forest and Rangelands

E-mail: sedaghati@rifr-ac.ir

sedaghati2012@gmail.com

PERSONAL Information:

Name: Mansoureh

Family Name: Sedaghati

Business Address: Research Institute of Forests and Rangelands, Iran national botanical garden boulevard, Shahid Ali Goudarzi street, Sarv Azad township, output of Peykanshar, Tehran-karaj highway, Tehran, Iran. P.O. Box: 13185-116 Website: www.rifr-ac.ir

Tel: +98 21 44787280-85

Educational Records:

Degree	University	Place	Field	Date
Ph.D.	Payame Noor University	Tehran	Plant Physiology	2018
M.Sc.	Al-Zahra University	Tehran	Plant Physiology	2008
B.Sc.	Urmia University	Urmia	Plant Biology	2000

Thesis Topics:

1. Study on *Eucalyptus maculata* Tissue Culture by Conventional and Photoautotrophic Methods and Comparison of Essential Oils in *in vitro* and *ex vitro* Conditions. (Master's Thesis)
2. Investigation of Root Culture, Tissue Culture and Effective Compounds of *Urtica dioica* using HPLC. (Ph.D. thesis)

Work Experiences:

1. Member of the Secretariat of *Iranian Flora Chromosome Index* (2019- continued)
2. Responsible of *Iranian Flora Chromosome Index* website (<http://ifci.rifr-ac.ir>) (2019-continued)
3. Implementation and Cooperation in Research Projects
4. Head of the Genetics Molecular Laboratory at the Research Institute of Forest and Rangelands (Iran) (2017-2020)
5. Teaching in University

Membership of Scientific Societies:

1. Iranian Biology Society
2. Iranian Medicinal Plants Society

Research Interests:

- 1- Molecular Physiology
- 2- Cytogenetics
- 3- Biological and Non-Biological Elicitors
- 4- Tissue Culture, Callus Production
- 5- Secondary Metabolites
- 6- Hairy Root

Research Projects

1. Chromosome Counting of Flora Plants of Iran (phase 1), in process, Co-worker
2. Chromosome Counting of Flora Plants of Iran, Sub-project, in process, Executor
3. Metabolomics application in response to drought stress in five species of savory, 2018- Co-worker
4. Comprehensive Investigation on Adaptable Species of Eucalyptus in Iran, Phase II, 2011-2016, Co-worker
5. Investigation of a new micropropagation method (Photoautotrophic conditions) in three species of adaptable and important Eucalyptus in Iran, 2012-2017, Co-worker
6. Proliferation Moringa Sp. By Micropropagation, 2011-2014, Co-worker

Book publishing

1. Biotechnology of Medicinal Plants, Propagation and Improvement, translated, 1401, Payame Noor University Publications
2. Symbiotic fungi with a practical approach, authored and translated, 2013, Adena Publications.
3. Two-volume set of plant biology guide, authored, 2014, Samobar Book Publications.

Publications and Journal Papers:

1. Seyed Mahmood Ghaffari¹, Abbas Ghamari Zare, Fereshteh Asadi Corom and **Masoureh Sedaghati**, 2022. Chromosome studies on some species of Angiosperms from Iran, Rostaniha journal, 22(2)
2. Seyed Mahmood Ghaffari¹, Abbas Ghamari Zare, Fereshteh Asadi Corom and **Masoureh Sedaghati**, 2021. Chromosome number and meiotic behavior in several plant taxa from Iran, botanicaserbica45 (2): 333-339
3. **M. Sedaghati**, M.H. Assareh, M.A. Ebrahimi, S.M. Hesamzadeh-Hejazi, H. Sobhanian, 2018, Effect of culture media and growth regulators on micropropagation of medicinal plant *Urtica dioica* L., Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, Vol. 26, No.1
4. **M. Sedaghati**, M. Emam , A. Ghamari Zare , M.H. Assareh and Kh. Kiarostami, 2014. Study of conventional and photoautotrophic methods of micropropagation on *Eucalyptus maculata*, Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research Vol. 22, No. 2
5. A. Ghamari Zare, **M. Sedaghati**, M. Emam, M. H. Assareh , 2014. Micropropagation of *Eucalyptus maculata* from Mature Stock by tissue culture, Iranian Journal of Forest and Poplar Research Vol. 21 No. 3, 583-593.
6. S. Tavassoli Asgari, A. Ghamari Zare, Sh. Sharzad, M. Khosroshahli and **M. Sedaghati**, 2012., Micropropagation of Iranian *Populus alba* species, Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research Vol. 20, No. 2
7. M.H. Assareh, **M. Sedaghati**, K. Kiarostami, M.B. Rezaii, 2010. Investigation on two methods of in vitro micropropagation of *Eucalyptus maculata*, Acta Horticulturae 865(865):353-355, DOI: 10.17660/ActaHortic.2010.865.50

8. H. Assareh, **M. Sedaghati**, F. Sefidkon, A. Ghamari Zare, K. Kiarostami, 2009. Seasonal changes of essential oil composition of *Eucalyptus maculata*. Iranian Journal of Medicinal and Aromatic Plants, 25:4, 581-588.
9. **M. Sedaghati**, M.H. Assareh, M. Emam, A. Ghamari Zare, Kh. Kiarostami, 2008. Micropropagation of *Eucalyptus maculata* via *in vitro* seedling. Iranian Journal of Botanical Researchs. Islamic Azad university of Gorgan, 1:10, 1-7
10. M.H. Assareh, Kh. Kiarostami, A. Ghamari Zare, M. Emam, **M. Sedaghati**, 2008. Growth of micro-propagated plantlets of *Eucalyptus maculata* at photoautotrophic and semi-photoautotrophic conditions, Iranian Journal of Pajohesh va Sazandegi, 81, pp: 126-132

Papers Presented in Conferences:

- 1- Assareh, M.H., **Sedaghati, M.**, Kiarostami, Kh., Ghamari Zare, A., Rezaee, M.B., December 2008. Investigation on two methods of *in vitro* micropropagation on *Eucalyptus maculata*, 4th International Symposium on Acclimatization & Establishment of Micropropagated, Bangalore, India.
- 2- **Sedaghati, M.**, Assareh, M.H., M.H., Ebrahimi, S.M. Hesamzadeh-Hejazi, H. Sobhanian, 2016. Propagation of *Urtica dioica* medicinal plant *in vitro* using different culture media, the first National Biotechnology Conference of Medicinal Plants and Mountain Mushrooms of Iran, 11th and 12th of September.
- 3- **Sedaghati, M.**, Assareh, M.H., M.H., Ebrahimi, S.M. Hesamzadeh-Hejazi, H. Sobhanian, 2016. Medicinal and industrial nettle in the world today, 11 and 12 of September.
- 4- **Sedaghati, M.**, Lebaschi M.H., Assareh, M.H, A. Ghamari Zare, Rezaei, M.B., 2013. Study of dry farming of agricultural and medicinal plants in different regions of the world, the first national conference Iran dry medicinal plants, Tehran, Aug.
- 5- Panahzadeh Parikhani, R., Mirzaei Nadushan, H., Asadi Korom, F., Ebrahimi, M. A., Keneshloo, H., **Sedaghati, M.**, 2013. The effect of different hormonal treatments on the activation of the buds of *Moringa peregrina* in the culture medium, the 3rd National Biotechnology Conference of Iran- Ferdowsi University of Mashhad.
- 6- Panahzadeh Parikhani, R., Mirzaei Nadushan, H., Asadi Korom, F., Ebrahimi, M. A., Keneshloo, H., **Sedaghati, M.**, 2013. The effect of light intensity on the branching of *Moringa peregrina* in the culture medium, the 3rd National Biotechnology Conference of Iran- Ferdowsi University of Mashhad.

7- Gamari Zare, A., Shahrazad, S., **Sedaghati, M.**, 2013. Determination of the gender of the *Populus euphratica* and *Populus alba* of the National Botanical Garden of Iran in order to create of interspecies crossbreeding, the first conference of the National Botanical Garden of Iran, Research Institute of Forests and Rangelands.

Courses Taught

1. Plant Physiology, Plant Biology Course, Payame Noor Univ., Iran
2. Physiology of Stress, Payame Noor Univ., Iran
3. Plant growth and Development, Payame Noor Univ., Iran
4. Plant Ecophysiology, Payame Noor Univ., Iran
5. Classification Principles and Methods, Payame Noor Univ., Iran
6. Plant Physiology Lab., Payame Noor Univ., Iran