



Dr. Mafatlal M. Kher
Assistant Professor, Biotechnology, SOS

Education Qualification:

Phd (Botany), Sardar Patel University, Vallabh Vidyanagar
M.Sc. (Botany), Sardar Patel University, Vallabh Vidyanagar
B.Sc. (Botany), MS University, Vadodara

Research Interest:

Plant tissue culture, horticulture, agriculture, bio-fertilizers, forestry, conservation of rare plants

Publications: * co-corresponding author # equal contribution

1. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M (2019) Red Sandalwood (*Pterocarpus santalinus* Linn.): Importance, propagation and micropropagation. *Journal of Forestry Research* 30:745–754. IF:1.155 [DOI:10.1007/s11676-018-0714-6](https://doi.org/10.1007/s11676-018-0714-6)
2. Vasava D, **Kher MM^{*#}**, Nataraj M, Teixeira da Silva JA (2018) Bael tree (*Aegle marmelos* (L.) Corrêa): Importance, biology, propagation and future perspectives. *Trees* 32:1165–1198. IF:1.799 [DOI:10.1007/s00468-018-1754-4](https://doi.org/10.1007/s00468-018-1754-4)
3. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M, Dobránszki J, Millar MA (2018) *Santalum* molecular biology: molecular markers for genetic diversity, phylogenetics and taxonomy, and genetic transformation. *Agroforestry Systems* 92:1301–1315. IF:1.792 [DOI:10.1007/s10457-017-0075-8](https://doi.org/10.1007/s10457-017-0075-8)
4. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M (2018) Indian Kino Tree (*Pterocarpus marsupium* Roxb.): Importance, propagation and micropropagation. *Environmental and Experimental Biology* 16:1–8. [DOI:10.22364/eeb.16.01](https://doi.org/10.22364/eeb.16.01)
5. Bi W-LL, Pan C, Hao X-YY, Cui Z-HH, **Kher MM**, Marković Z, Wang Q-C, Teixeira da Silva JA (2017) Cryopreservation of grapevine (*Vitis* spp.)—a review. *In Vitro Cellular & Developmental Biology - Plant* 53:449–460. IF:1.454 [DOI:10.1007/s11627-017-9822-9](https://doi.org/10.1007/s11627-017-9822-9)

6. Teixeira da Silva JA, Zeng S, Wicaksono A, **Kher MM^{*#}**, Kim H, Hosokawa M, Dewir YH (2017) *In vitro* propagation of African violet: a review. **South African Journal of Botany** 112:501–507. IF:1.504 [DOI:10.1016/j.sajb.2017.05.018](https://doi.org/10.1016/j.sajb.2017.05.018)
7. **Kher MM^{*}**, Nataraj M (2017) Micropropagation of *Combretum ovalifolium* Roxb.: a medicinally important plant. **Rendiconti Lincei** 28:519–527. IF: 1.087 [DOI:10.1007/s12210-017-0625-z](https://doi.org/10.1007/s12210-017-0625-z)
8. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Page T, Zhang X, Nataraj M, Ma G (2016) Sandalwood: basic biology, tissue culture, and genetic transformation. **Planta** 243:847–887. IF:3.060 [DOI:10.1007/s00425-015-2452-8](https://doi.org/10.1007/s00425-015-2452-8)
9. **Kher MM^{*#}**, Nataraj M, Teixeira da Silva JA (2016) Micropropagation of *Crataeva* L. species. **Rendiconti Lincei** 27:157–167. IF:1.087 [DOI:10.1007/s12210-015-0478-2](https://doi.org/10.1007/s12210-015-0478-2)
10. Nataraj M, **Kher MM^{*#}**, Teixeira da Silva JA (2016) Micropropagation of *Clerodendrum* L. species: a review. **Rendiconti Lincei** 27:169–179. IF:1.087 [DOI:10.1007/s12210-015-0484-4](https://doi.org/10.1007/s12210-015-0484-4)
11. Teixeira da Silva JA, **Kher MM^{*#}**, Nataraj M (2016) Biotechnological advances in *Vitex* species, and future perspectives. **Journal of Genetic Engineering and Biotechnology** 14:335–348 (Scopus Indexed Journal). [DOI:10.1016/j.jgeb.2016.09.004](https://doi.org/10.1016/j.jgeb.2016.09.004)
12. Teixeira da Silva JA, Dewir YH, Wicaksono A, **Kher MM[#]**, Kim H, Hosokawa M, Zeng S (2016) Morphogenesis and developmental biology of African violet (*Saintpaulia ionantha* H. Wendl.). **Journal of Plant Development** 23:15–25.
13. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M (2016) Sandalwood spike disease: a brief synthesis. **Environmental and Experimental Biology** 14:199–204. [DOI:10.22364/eeb.14.26](https://doi.org/10.22364/eeb.14.26)
14. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M (2016) African sandalwood or Nepalese sandalwood: a brief synthesis. **Notulae Scientia Biologicae** 8:57–61 (Scopus Indexed Journal). [DOI:10.15835/nsb819714](https://doi.org/10.15835/nsb819714)
15. Bose A, **Kher MM**, Nataraj M, Keharia H (2016) Phytostimulatory effect of indole-3-acetic acid by *Enterobacter cloacae* SN19 isolated from *Teramnus labialis* (L. f.) Spreng rhizosphere. **Biocatalysis and Agricultural Biotechnology** 6:128–137. (Scopus Indexed Journal) [DOI:10.1016/j.bcab.2016.03.005](https://doi.org/10.1016/j.bcab.2016.03.005)
16. Joshi H, Nekkala S, Soner D, **Kher MM**, Nataraj M (2016) *In vitro* shoot multiplication of *Withania coagulans* (Stocks) Dunal. **Plant Tissue Culture and Biotechnology** 26:187–195. (Scopus Indexed Journal). [DOI:10.3329/ptcb.v26i2.30569](https://doi.org/10.3329/ptcb.v26i2.30569)
17. **Kher MM^{*}**, Soner D, Srivastava N, Nataraj M, Teixeira da Silva JA (2016) Micropropagation of *Clerodendrum phlomidis* L.F. **Journal of Horticultural Research** 24:21–28. (Scopus Indexed Journal). [DOI:10.1515/johr-2016-0003](https://doi.org/10.1515/johr-2016-0003)
18. Teixeira da Silva JA, **Kher MM^{*#}**, Soner D, Nataraj M (2015) *Withania coagulans* (Stocks) Dunal: biotechnological achievements and perspectives. **Journal of Horticultural Research** 23:5–12 (Scopus Indexed Journal). [DOI:10.2478/johr-2015-0001](https://doi.org/10.2478/johr-2015-0001)
19. **Kher MM**, Nataraj M, Parmar HD, Buchad H (2015) Micropropagation of *Merremia quinquefolia* (L.) Hallier F. from nodal explants. **Journal of Horticultural Research** 23:13–16. (Scopus Indexed Journal). [DOI:10.2478/johr-2015-0002](https://doi.org/10.2478/johr-2015-0002)
20. **Kher MM**, Nataraj M (2015) Effect of sulfuric acid treatment on breaking of seed dormancy and germination of Indian doum palm, *Hyphaene dichotoma*, a threatened and endemic palm. **Environmental and Experimental Biology** 13:99–101.
21. Soner D, Nataraj M, **Kher MM** (2015) Somatic embryogenesis in *Clerodendrum phlomidis* L. **Academic Journal of Plant Sciences** 7:6–9.

22. **Kher MM**, Joshi D, Nekkala S, Nataraj M, Raykundaliya DP (2014) Micropropagation of *Pluchea lanceolata* (Oliver & Hiern.) using nodal explant. **Journal of Horticultural Research** 22:35–39. (Scopus Indexed Journal). [DOI:10.2478/johr-2014-0004](https://doi.org/10.2478/johr-2014-0004)
23. Suthar B, Pansuriya J, **Kher MM**, Patel VR, Nataraj M (2014) Biochemical changes under chromium stress on germinating seedlings of *Vigna radiata*. **Notulae Scientia Biologicae** 6:77–81 12. (Scopus Indexed Journal). [DOI:10.15835/nsb619203](https://doi.org/10.15835/nsb619203)
24. **Kher MM**, Nataraj M (2012) Micropropagation of *Hibiscus radiatus*- a medicinal plant. In: Braganza DV, Ghosh DSK, Menon DS (Eds) Impact of Plant Tissue Culture on Advances in Plant Biology. Loyola Center for Research and Development, Xavier Research Foundation, Ahmadabad, India, pp 18–26 (Chapter in Conference Proceeding).
25. **Kher MM**, Nataraj M, Joshi A, Patel M (2010) Nuptial nectaries in some species of Bignoniaceae. **PRAJÑĀ- Journal of Pure and Applied Sciences** 18:31–33.
26. Nataraj M, Parmar A, **Kher MM** (2009) Impact of chromium during early germination of fenugreek in interaction with copper, zinc, lead, and cadmium. **PRAJÑĀ- Journal of Pure and Applied Sciences** 17:40–47.

Industry/Academic/Research Experience:

1. Research Scholar, Department of Bioscience, Sardar Patel University
2. UGC Project Fellow, Department of Bioscience, Sardar Patel University
3. Adhoc Lecturer: Botany, B.C.J. Science College Khambhat, India
4. Student trainee: Gujarat Ecological Education and Research Foundation Gandhinagar

Courses Taught:

Biotechnology-II, Plant Biotechnology, General laboratory Practices

Conference & Seminar:

1. **Oral presentation** at UGC Sponsored **National Conference** on Current Trends in Biological Sciences-II Friday, 9th February 2018, Organised by P.G. Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India
2. **Oral presentation** at **International Conference** on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” to be held on 24 - 26th, September 2014 at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat, India.
3. **Oral presentation** in The **National Conference** on Biodiversity and It’s Role in Modern World Oct.12-13, 2012 at Department of Botany SPDM Arts, SSB and SHD Commerce and SMA Science College, Shirpur, Dhule, Maharashtra.
4. **Presented research proposal** in the **National workshop** on Research Methodology: A march towards Creating Quality through Research held during March 12-14, 2012, jointly organised by Sardar Patel University, Vallabh Vidyanagar and The Knowledge consortium of Gujarat, Gandhinagar, Gujarat.
5. **Poster presentation** at Impact of Plant tissue culture on Advance in Plant Biology and **XXXIII PTCA (I) Annual Meet**; 01/2012 Ahmadabad, Gujarat, India.

6. **Poster presentation at Zonal Seminar** on Physiological and Molecular Inventions on Sustainable Crop Productivity under Changing Climatic Conditions; 01/2012, Anand, Gujarat, India.
7. **Attended** UGC-DRS sponsored a one-day **national seminar** on “Recent trends in Microbial technology” on 21st February 2012 at The Maharaja Sayajirao University of Baroda.
8. **Attended National Symposium** on “Trends in Biological Sciences” January 28-29th, 2011, Sardar Patel University, Vallabh Vidyanagar.
9. **Attended National Seminar** on “Passion to Mission in Molecular Biology” 28th November 2008 N.V.Patel Science College of Pure & Applied sciences V.V.Nagar-388120.
10. **Attended** UGC Sponsored **National Conference** on “Taxonomy Teaching & Research: The Relevance In National Context” On 27th September 2008 Organized by Shri R.K.Parikh Arts & Science College, Petlad, Gujarat.

Awards & Honors:

- Outstanding reviewer awards certificates 2016 and 2018
- UGC Major Research Project JRF and SRF 2011-2014

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