

## RESUME OF DR. MANJUL DHIMAN

Name : **Manjul Dhiman**

Father's Name : Sh. R.D.Dhiman

Post & Designation : Associate Professor and Head

Institute Address : Department of Botany  
K.L.D.A.V ( PG) College,  
Roorkee, Distt. Haridwar-Uttarakhand

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Date of Birth : 05-09-1971

Sex : Male

### EDUCATIONAL QUALIFICATIONS:

| Year | Courses      | Division | %of Marks | Subject        | Board/University                             |
|------|--------------|----------|-----------|----------------|--|
| 1986 | High School  | Ist      | 65.10     | Science Group. | U.P.Board                                    |
| 1988 | Intermediate | Ist      | 70.00     | Science Group. | U.P.Board                                    |
| 1991 | B.Sc.        | Ist      | 71.90     | Bot. Chem. Zol | Meerut University                            |
| 1993 | M.Sc.        | Ist      | 75.40     | Botany         | Inst. of Advanced Studies, Meerut University |
| 1994 | M.Phil       | Ist      | 76.60     | Botany         | University of Delhi                          |
| 1998 | Ph.D         |          |           | Botany         | University of Delhi                          |
| 1995 | NET          |          |           | Life Sciences  | UGC-CSIR                                     |

### TEACHING EXPERIENCE :

- 1.Taught both U.G. & P.G Classes in Govt. College Banswara (Rajasthan) during 1998- 1999 after selection as permanent lecturer through Rajasthan Public Service Commission.
2. Presently working as Associate Professor and Head in Department of Botany. K.L.D.A.V.PG College, Roorkee since 1999.

## SCHOLARSHIPS AND AWARDS :

1. Merit Scholarship in the School..
2. Awarded Junior and Senior Research Fellowship of the Council of Scientific and Industrial Research.
3. Qualified National Eligibility Test of the University Grants Commission.
4. **Young Scientist Award** in 4<sup>th</sup> USSTC, 2009 by Uttarakhand State Council for Science and technology, Govt. of Uttarakhand, Dehradun.
5. **Best Research Paper Award** by CSIR-National Botanical Research Institute, Lucknow in the area of Central Instrumentation Facility in 2014.
6. Honored by many societies at several times for contribution in the field of Research and Education.

## RESEARCH EXPERIENCE:

1. M.Sc (Microbial Biotechnology)  
Title of the Dissertation: Effect of urea in nutrient salt solution for the production of cellulose using *Gliocladium virens*.  
Supervisor: Dr. Amar P.Garg , Institute of Advanced Studies, Department of Botany, Meerut University Meerut.
2. M.Phil (Plant Biotechnology)  
Title of Thesis: Regeneration form Somatic cell, Tissue an Organ culture of Rice- A Review.  
Supervisor: Professor S.P.Bhatnagar, Department of Botany, University of Delhi, Delhi
3. Ph.D (Plant Biotechnology)  
Title of Thesis: In vitro studies on some gymnosperms.  
Supervisor: Professor S.P.Bhatnagar, Dr. S.Moitra, Department of Botany, University of Delhi, Delhi.
4. Post Doctoral Research Experience (Molecular Biology and Biotechnology)  
One year under the supervision of Professor J.P.Khurana, Department of Plant Molecular Biology, Delhi University South Campus on following aspects.
  - A. *Agrobacterium* mediated Transformation of wheat embryos.
  - B. Phytochrome analysis of Gymnosperms.
  - C. Techniques of handling DNA, RNA and proteins.

## STUDENTS AWARDED Ph D

1. Piyush Kumar Patel
2. Ms. Vandana Sharma
3. Mrs. Saumya Sharma
4. Ms. Shweta Singh
5. Ms Nidhi Chauhan
6. Ms Rashi Jaisingh

## **STUDENTS Ph D Thesis Submitted**

1. Ms Indra Rautela

## **STUDENT UNDER Ph D SUPERVISION**

1. Ms. Krishna Yadav
2. Ms Monika Gondwal
3. Mr Mushtaq Ahmed
4. Ms Jaya Chandola

## **STUDENTS AWARDED M Phil**

1. Ms Shubhra Garg
2. Piyush Kumar Patel
3. Arti Bhardwaj
4. Anupama Chaudhary
5. Sharik Nadeem

## **RESEARCH PROJECTS**

Completed **Major research Project** on “Field establishment of *in vitro* raised plants of *Ephedra gerardiana*” funded by U COST, Department of Science & Technology, Govt. of Uttarakhand.

Completed **Major research project** “Assessment of genetic fidelity and estimation of alkaloids in *in vitro* raised plants of *Ephedra gerardiana*” funded by U COST, Department of Science & Technology, Govt. of Uttarakhand.

## **TRAINING COURSES**

- Four-week **Orientation Course** sponsored by UGC from Academic Staff College, H. P. U. Shimla from 5<sup>th</sup> May to 31<sup>st</sup> May, 2003.
- Two week Training Course in **Remote Sensing & GIS** held by RRSSC, Dehradun from 19<sup>th</sup> Jan. to 30<sup>th</sup> Jan. 2004.
- Three-week **Refresher Course in Biological Sciences** sponsored by UGC from Academic Staff College, H. P. U. Shimla from 5<sup>th</sup> June to 24<sup>th</sup> June 2006.
- Ten days Training Course in **Plant Tissue Culture: Molecular Characterization** sponsored by State Biotechnology Program, Govt. of Uttaranchal from Thaper University Patiala from 29<sup>th</sup> Oct. to 4<sup>th</sup> Nov. 2007.
- Three-week **Refresher Course in Life Sciences** sponsored by UGC from ILLU, University of Delhi, Delhi from 29<sup>th</sup> Jan. to 18<sup>th</sup> Feb. 2009.
- 10 days winter school training onto **Transgenic Development in Crop Plants** organized by NRCPB, New Delhi from 1<sup>st</sup> Dec. to 10<sup>th</sup> Dec. 2009.

## **SEMINARS CONDUCTED**

Organized one day national seminar on **Global Warming** sponsored by UGC and CSIR on 27<sup>th</sup> March, 2007 held at K L DAV PG College, Roorkee.

## PAPERS PUBLISHED

1. **Dhiman, M.**, Motra S., Singh, M.N & Bhatnagar, S.P.1998, In vitro studies on some non coniferous gymnosperms. **Curr. Sci.** 75: 1113-1115
2. **Dhiman, M.**, Moitra, S. Singh, M.N & Bhatnagar, S.P.1998 Formation of somatic embryos from leaf callus of *Zamia furfuracea*. L-A Preliminary report. **Phytomorphology**. 48:317-322
3. **Dhiman, M.**, Moitra, S. & Bhatnagar, S.P.2000. Role of Biotechnology in conservation of cycads. In **Proc. IV Int. Cong. Cycad Biology** (May 1-5, 1995 Panzhihua, China) Chinese Academy of Sciences, Beijing, China.
4. **Dhiman, M.**, Moitra, S., Singh M.N & Bhatnagar, S.P.2000, Organogenesis in female gametophyte and embryo cultures of cycads: *Cycas circinalis* and *Zamia integrifolia* . **J.Biochem. Biotech.** 9: 111-113.
5. Patel, P. K. and **Dhiman, M.**2006. Assessment of medicinal plants growing in Shakumbhari Devi hills of Shivalik range. In R. L. Panigrahi and L. R. Patro eds. Globalization and Sustainable Agriculture in India. Discovery Publ. New Delhi.
6. Patel, P. K. and **Dhiman, M.**2008. Loss of Medicinal Plant Diversity of Shakumbhari Devi Hills of Shivalik Range. In D R Khanna, A K Chopra, G Prasad, D S Malik and R Bhutani eds. Multifacial Applications of Drug Plants. Daya Publishing House, New Delhi.
7. **Dhiman, M.** and Moitra, S. 2007. Biotechnology of cycads. **Him. J.Sci.** 1 (1): 1-8.
8. Sharma V, and **Dhiman M.** 2010. Distribution, phylogeny and phytochemistry of *Ephedra*; a Traditional Medicinal Plant. In. M Kumar, R K Gupta (eds), Diversity of Higher Plants. I K. Int. Publ. House, N. Delhi. pp 226-240.
9. Dhiman, M. Sharma, V and Moitra, S. 2010. Somatic embryogenesis and plant regeneration in *Ephedra foliata* (Boiss.); a non coniferous gymnosperm. **Plant Tissue Cult. & Biotech.** **20**: 133-143
10. **Dhiman M.** and Sharma V. 2010. Regeneration of plants from somatic embryos derived from stem culture in *Ephedra foliata*. In: Role of Biotechnology in Food Security and Climate Change. Islam AS, Haque MM, Sarker RH and Hoque MI (Eds). Proc. Sixth Intl. Plant Tissue Cult. & Biotech. Conf., December 3 - 5, 2010, Bangladesh Assoc. Plant Tissue Cult. & Biotech. Dhaka, Bangladesh. pp. 19 - 25.
11. Patel, P. K., Kumar, A., Sharma, A. and **Dhiman, M.** 2011. Ethnomedicinal survey of the Rishikesh and Neighbouring area. **J. Env. Bio Sci.** **25**:241-246.
12. Patel, P. K., Kumar, A., Sharma, A. and **Dhiman, M.** 2011. Traditional knowledge on medicinal plants used by van gujjars of shakumbhari devi of shivalik hills. **Plant Archives** 11 :587-592.
13. Sharma, V., Gupta S K and **Dhiman, M.** 2012. Regeneration of Plants from nodal and internodal segment cultures of *Ephedra gerardiana* using Thidiazuron. **Plant Tissue Cult. & Biotech.** **22**: 153-161.

14. Niranjana, A., Singh, S., **Dhiman, M.** and Tewari, S. K. 2013. Biochemical composition of *Curcuma longa* L. accessions. Analytical Letters. **46**:1069-1083.
15. **Dhiman, M.** Sharma, V and Gupta, S. K. 2012. Organogenesis in embryonal explants of *Ephedra gerardiana* cultured in vitro. In: Science and Technology in Uttarakhand: Selected Research Articles. R Dobhal, D P Uniyal and B P Purohit (Eds). Proc. IV Uttarakhand State Science and Technology Congress. Mac Millan Publ. India Ltd. New Delhi. Pp. 38-42.
16. Sharma, N., **Dhiman, M.** and Koshy, E. P. 2014. TDZ induced multiple shoot regeneration and in vitro flowering from nodal explants in *Withania somnifera* (L.). Int. J. Sci. Res. **3**:50-52.
17. **Dhiman, M.** and Rautela, I. 2014. Biotechnological approaches towards micropropagation and conservation of cycads and ephedrales. In: Biotechnology and Biodiversity, Sustainable Development and Biodiversity 4. M. R. Ahuja and K. G. Ramawat (eds.). Springer Int. Publ. Switzerland. Pp. 247-270. DOI.10.1007/978-3-319-09381-9\_12.
18. Sharma N, Koshy EP and **Dhiman M** (2014). Ashwagandha: Highly potential medicinal plant. Kumar M, Khare A & Shukla CP (Edt.). Medicinal plants aspects and prospects. 362-348.
19. Sharma N, Koshy EP and **Dhiman M** (2014). Indirect regeneration from leaf segments for mass Propagation of *Withania somnifera* :An endangered medicinal plant. Int J Pharm Bio Sci 2014 July; 5(3): (B) 764 – 772.
20. Sharma N, Sharma M. D, **Dhiman, M** and Koshy, E. P. (2014). Micropropagation strategies for conservation of Endangered medicinal plant *Withania somnifera* (L.) Dunal. Journal of cell and tissue research. 14(2) 4333-4338.
21. Sharma N, Sachdeva P, **Dhiman M** and Koshy EP (2015). Comparative evaluation of *in vitro* regeneration potential of seeds of *W. somnifera* and *W. coagulans*. Biotechnology International. 8 (1): 21-33.
22. Sharma N, Durgesh, Varnika, Koshy EP and **Dhiman M** (2015). Biological properties and conservation of critically endangered plant *Withania coagulans* - Indian Rennet: A Review. International Journal of Advanced Research in Biological Sciences. 2(10).24-31.
23. Singh S, Sharma L K, Sharma S K, Singh D, Niranjana A, **Dhiman M** and Tewari S K(2015). Selection of high quality turmeric (*Curcuma longa* L.) genotype from sodic wastelands of Northern India. Med. Plants. 7 (2): 109-113.
24. Chauhan N S and **Dhiman M**(2015). Microbial biodiversity of tributaries of river Ganga in Uttarakhand. Int. J. Recent Sci. Res. 6(10): 6888-6891.
25. Chauhan N S and **Dhiman M**(2015). Assessment of microbial biodiversity of river Ganga at Haridwar and Rishikesh. Microbiology 4(11): 393-396.

26. Chauhan N S and **Dhiman M**(2015). Assessment of physico-chemical properties of river Ganga and its tributaries in Uttarakhand. Int. J. Microbiology 4(11): 344-346.
27. Rautela I, **Dhiman M**, Sharma M D, Kumar M and Misra P(2017). Assessment of genetic diversity of mother plant and in vitro raised medicinal plant of *Ephedra gerardiana* through molecular markers.J. Plant Dev. Sci. 9(3):191-200.
28. Rautela I, **Dhiman M**, Sharma M D and Misra P(2018). In vitro regeneration of medicinal plant *Ephedra gerardiana*. Int. J. Pharma. Sci. Res.(JPSR).9(3): 1183-1188.
29. Kumar V, Singh N and **Dhiman M** (2019). In vitro study on encapsulated shoot tips propagation of *Trichosanthes dioica* (Pointed Gourd). Int. J. Res. Anal. Rev.(IJRAR).06(1):300-308.
30. Kumar V, Singh N and **Dhiman M** (2019). In vitro propagation from nodal and root segments in *Momordica charantia* (Bitter Gourd). Int. J. Res. Anal. Rev.(IJRAR).06(1):1196-1204.
31. Gondwal M, Chamola B P and **Dhiman M** (2019). Effect of seasonal variation and edaphic factors on AM population associated with medicinal plants of Hardwar range of Rajaji National Park, Uttarakhand. Int. J. Sci. Res. Rev.(IJSRR). 8(2):01-08.
32. Gondwal M, Chamola B P and **Dhiman M** (2019).

## BOOKS PUBLISHED

1. **Practical Botany Part I** For B. Sc. 1<sup>st</sup> year students of H N B Garhwal University students by Gupta R K, **Dhiman M** and Swami Ajay. Anand Publications, Noida.
2. **Practical Botany Part II** For B. Sc. 2<sup>nd</sup> year students of H N B Garhwal University students by Gupta R K, **Dhiman M** and Swami Ajay. Anand Publications, Noida.
3. **Practical Botany Part III** For B. Sc. 3<sup>rd</sup> year students of H N B Garhwal University students by Gupta R K, **Dhiman M** and Swami Ajay. Anand Publications, Noida.
4. **Practical Botany Volume I (ISBN No 978-93-80803-89-0)** For B. Sc. 1<sup>st</sup> year students of H N B Garhwal University students by Gupta R K, **Dhiman M**, Gupta D K and Bajpai A B. Kedar Nath Ram Nath, Meerut.
5. **Practical Botany Volume II (ISBN No 978-93-80803-89-0)** For B. Sc. 2<sup>st</sup> year students of H N B Garhwal University students by Gupta R K, **Dhiman M**, Gupta D K and Bajpai A B. Kedar Nath Ram Nath, Meerut.
6. **Environment Science (ISBN No 978-81-932633-3-4)** by Gupta R K, **Dhiman M** and Gupta D K. V. S. Publications, Meerut.
7. **Paryavaran Vigyan (In Hindi) (ISBN No 978-81-932633-4-1)** by Gupta R K, **Dhiman M** and Gupta D K. V. S. Publications, Meerut

Attended various national and international seminars and conferences and presented/published invited talks and numerous abstracts and papers. More than 50 abstracts published in several national and International conference proceedings.

**MEMBER OF SOCIETES**

1. International Association of Plant Biotechnology, USA.
2. Editorial member of Environmental Science, Recent Researches in Social Sciences and Humanities. Refereed peer indexed journal.
3. Editorial member of Biotechnology, Himalayan Journal of Sciences.
4. Indian Science Congress Association, Calcutta.

**MISCELLANEOUS**

1. Undertaken various administrative duties assigned by the college as Head of Botany Department and in various college committees viz. Admission, Examination, Purchase, Campus beautification, NAAC etc
2. Worked as NSS Program Officer in college NSS unit.
3. Worked as Sports Officer in the college.

**(Dr Manjul Dhiman)**