

BIO-DATA OF PROF. SUNIL D. PUROHIT



- Name in Full** : **PUROHIT SUNIL DUTTA**
- Father's Name** : Late Shri A.D. Purohit
- Date of Birth** : 25th September 1956
- Present Position** : Retired Professor & Formerly Head Department of Botany and Formerly Course Director, Department of Biotechnology, Dean and Chairman, Faculty of Science
- Residential Address** : Plot No. 11-12, New Ganpati Nagar 'A'
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- Past Employment Details** : **Professor Botany** (2005-2016)
Mohanlal Sukhadia University, Udaipur
Associate Professor (1997-2005)
Mohanlal Sukhadia University, Udaipur
Assistant Professor (1984-1997)
Mohanlal Sukhadia University, Udaipur
Research Associate (1981-1984)
Jai Narain Vyas University, Jodhpur

EDUCATIONAL QUALIFICATIONS

- B.Sc. 1975 : University of Jodhpur, Jodhpur
- M.Sc. 1977 : University of Jodhpur, Jodhpur

Ph.D. (Botany) 1981 : University of Jodhpur, Jodhpur
Field of Research : Plant Biotechnology and Physiological Plant Pathology
Nature of Job : Research and Teaching

ADMINISTRATIVE POSITIONS HELD

- **Co-ordinator**, Pre-Teachers' Entrance Test, 2002
- **Co-ordinator**, National Service Scheme, Mohanlal Sukhadia University Udaipur
- **Course Director**, Department of Biotechnology, Mohanlal Sukhadia University, Udaipur August 2004- 2014
- **Dean**, University College of Science, Mohanlal Sukhadia University, and Udaipur from 21.5.2014-August 2014.
- **Head**, Department of Botany, Mohanlal Sukhadia University, Udaipur August 2012- 2015
- **Chairman**, Faculty of Science, Mohanlal Sukhadia University, Udaipur from 21.5.2014-August 2014
- **Convener**, Committee of Courses in Botany, Mohanlal Sukhadia University, Udaipur (2014-2017)

COURSES TAUGHT

- Mycology, Plant Pathology, Plant Physiology, Microbiology, Molecular Biology, Genetic Engineering, Plant Tissue Culture and Environmental Biotechnology

VISITS ABROAD

- **United Kingdom (1981)**: Oxford University; John Innes Institute Nowrich; Agricultural Experimental Research Station, Hependen; Commonwealth Mycological Institute, Kew; London and Kew Botanical Garden, Kew, London.
- **United States of America (2006)**: University of California at Los Angeles; Texas University, Dallas and Arizona State University, Tucson.
- **Republic of Iran (2010)**: University of Shiraz, Shiraz
- **Canada and United States of America (2013)**: Toronto University, Toronto; Montreal University, Montreal; Habitat Centre, Montreal; Harvard University, Boston; Massachusetts Institute of Technology, Boston; Rutgers State University, New Jersey, USA.
- **Greece (2017)**: University of Patras, Patras, Greece

A. NATURE OF RESEARCH WORK AND CONTRIBUTION: RESUME

Dr. Sunil Dutta Purohit was initiated in research at the Department of Botany, University of Jodhpur, by **Professor H.C. Arya** in July, 1977. He was awarded a Junior Research Fellowship of the University Grants Commission, New Delhi, funded research project entitled "Nature of Autonomous Growths in Plants Induced by Various Agencies" in February 1978. Dr. Purohit analysed abnormally grown tissues to find out the change in activities of enzymes like

IAA- oxidase, peroxidase, polyphenol oxidase, ascorbic acid oxidase, alpha-amylase, and catalase and various metabolites like total and *o*-dihydroxy phenols, proteins, aromatic amino acids, carbohydrates, auxins, sulfhydryls and ascorbic acid as compared to normal tissue. He used various experimental plant materials like *Zizyphus mauritiana* stem galls, *Prosopis cineraria* stem and rachial galls, *Giesekia pharnacoides* leaf galls, *Cordia myxa* leaf galls, *Ipomoea pentaphylla* stem galls, and phyllody of *Sesamum indicum* induced by mycoplasma-like organisms (MLO) for the analyses. Dr. Purohit was awarded a Senior Research Fellowship of Council of Scientific and Industrial Research, New Delhi in February 1980. He submitted his Ph.D. thesis to the University of Jodhpur, Jodhpur in October 1980 on the problem entitled "**Studies on Deranged Physiology of *Sesamum* phyllody induced by Mycoplasma-like Organisms (MLO)**" and awarded degree in the year 1981.

First research paper of Dr. Purohit entitled, "Light Microscopic Detection of Mycoplasma-like Organisms in *Sesamum* Phyllody" appeared in **Current Science** in the year 1978. He, subsequently published more than 80 research papers in the Journals like **Plant Cell Reports (USA)**, **Plant Cell Tissue and Organ Culture (The Netherlands)**, **Plant Science (USA)**, **Journal of Sustainable Forestry (USA)**, **In Vitro Cell and Developmental Biology-Plant, Cytologia (Japan)**, **European Journal of Horticultural Sciences (Germany)**, **Biologia Plantarum (Czech Republic)**, **Acta Physiologiae Plantarum (Germany)**, **Scientia Horticulturae (The Netherlands)**, **Journal of Asian and Australasian Plant Science and Biotechnology (UK)**, **Medicinal and Aromatic Plant Science and Biotechnology (UK)**, **International Journal of Plant and Developmental Biotechnology (UK)**, **Indian Journal of Experimental Biology**, **Indian Journal of Biotechnology**, **Current Science**, **Science and Culture**, **Indian Phytopathology** and **Journal of Indian National Science Academy**. He also availed of the opportunity to present his research results in various National and International symposia and conferences in the country and abroad.

Dr. Purohit was appointed Research Associate in the Department of Science & Technology funded research project on "**Rapid Multiplication of Economically Important Plants of Arid-zone through Tissue Culture, Differentiation and Establishment**" in February 1981. He was successful in multiplication of desert plants like *Zizyphus*, *Prosopis*, *Eucalyptus* and few others through tissue culture.

In July 1981, on the travel grant received from Department of Science and Technology, Government of India, Dr. Purohit visited Oxford, England to attend Joint Phytopathological Meetings organised by Association of Applied Biologists, Federation of British Plant Pathologists and International Society of Plant Pathology where he presented his research findings. He also visited few other places in England like Rothamsted Agricultural Experimentation Research Station, Herpenden, John Innes Institute, Norwich, Commonwealth Mycological Institute and Royal Botanical Gardens, Kew, London and National Virology Institute, Oxford.

Dr. Purohit joined Department of Botany, Mohanlal Sukhadia University, Udaipur in July 1984 as Assistant Professor. He organised a well-equipped Plant Biotechnology Laboratory to carry out research in the field of his interest. The major research support amounting to

approximately Rs.10 million was received from University Grants Commission (UGC), Department of Biotechnology (DBT) Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), New Delhi; State Department of Science and Technology, Jaipur and Indian Council of Forestry Research and Education (ICFRE), Dehradun over a period of 15 years.

The main focus of his research remained on micropropagation of plants of medicinal, forestry and horticultural importance. Under different research programmes, he has been able to develop micropropagation protocols for *Feronia limonia*, *Wrightia tomentosa*, *W. tinctoria*, *Boswellia serrata*, *Sterculia urens*, *Acacia catechu*, *A. leucophloea* (all woody trees), *Achras sapota*, *Annona squamosa* (fruit trees), *Celastrus paniculatus*, *Vitex negundo* and *Chlorophytum borivilianum* (medicinal herb). Scaling-up production has been taken-up in the case of *Feronia limonia*, *Wrightia tinctoria*, *W. tomentosa*, *B. serrata* and *C. borivilianum*. Small-scale field performance of micropropagated plants has been successfully demonstrated in many species.

Dr. Purohit was selected as Associate Professor of Botany in July 1997 in the same department. He was instrumental in development of Post-Graduate Courses in Biotechnology in this university which was introduced from the session 1997-98.

Department of Science and Technology, Government of India, awarded **SERC Visiting Fellowship** to him to work with **Professor A.K. Tyagi**, Head, **Department of Plant Molecular Biology**, Co-ordinator, Centre for Plant Molecular Biology and Co-ordinator (India), International Rice Genome Project, University of Delhi, South Campus, New Delhi. Dr. Purohit, during his stay in the Department, learned basics of Practical Molecular Biology. He engaged himself in research on genetic transformation of *Feronia limonia*, a fruit tree species and chloroplast-based **Restriction Fragment Length Polymorphism (RFLP)** to identify clones of *Aegle marmelos* and *Feronia limonia*. Dr. Purohit used *Agrobacterium* and **Biolistics-mediated gene transfer system**. He has learnt methods for isolation of genomic DNA of plants and hybridization techniques for molecular characterisation of variability among tissue culture clones, based on RFLP pattern in chloroplast genome. Dr. Purohit has recently taken up studies on **molecular characterization of diversity** among wild and tissue culture raised populations of *Feronia limonia* using **ISSR primers and PCR amplification technique**. Work on over-expression of rice **chitinase** gene in groundnut against **Tikka diseases** through *Agrobacterium* mediated gene transfer system has also been undertaken. Studies on **molecular and cytological characterization** have been carried out in natural and tissue culture raised plants of *Chlorophytum borivilianum*. Under a collaborative research program with **Munich Technical University, Germany**, incorporation studies have been carried out using **U¹³ C labelled glucose** in tissue culture raised *Boswellia serrata* to determine the pathway of **Boswellic acid biosynthesis** through **NMR analysis**. **Phytochemical profiling** has also been carried out in different accessions of *Celastrus paniculatus* in collaboration with PERD Centre, Ahmedabad (Dr. Mrs. M. Rajani) using **HP-TLC** and other analytical methods. Dr. Purohit has opened up a new area of investigation by demonstrating that improvement in growth and hardening of tissue culture plants is possible by growing plants under **CO₂ enriched environments**.

Dr. Purohit was appointed **Course Director**, Department of Biotechnology, in this University, in August 2004, the position which he is holding till date.

Dr. Purohit has undergone training on **Microarray Based Genome Analysis** under the guidance of Professor David Galbraith at the Department of Plant Sciences, **Arizona State University, Tucson, Arizona, USA** from January 8-13, 2006.

Dr. Purohit was promoted as **professor**, Department of Botany on 17th May, 2007. He has sanctioned a UGC project to study the effect of liquid culture system on growth, multiplication, physiology and morphology of some medicinally important plants. He also contemplates to study the photosynthetic efficiency of such plants. The Department of Science and Technology, Government of India, New Delhi has sanctioned a research project to study natural diversity in *Chlorophytum borivilianum* using molecular markers. He has been nominated on the task force constituted by the Government of Rajasthan for policy formulation on “**Agricultural Education and Research Prioritization**” in the State. Recently, he has been **nominated by ICFRE as a Member of Research Advisory Group**, Arid Forestry Research Institute, Jodhpur. Dr. Purohit delivered a plenary lecture during the **International Medicinal and Aromatic Plant Symposium** organized by Shiraz University and International Society for Horticultural Sciences, **Shiraz, Iran** in June, 2010. He was invited to deliver a guest lecture at an International Symposium on Medicinal Plants held at Montreal, Canada in the year 2013. He also visited Harvard University and MIT, USA in connection with his research in the same year. He was appointed Member of Advisory Committee for International Society for Phytocosmetic Sciences and Natural Products and was placed on the Editorial Board of an International Journal of Phytocosmetics and Natural Products, Boston, USA.

B. MAJOR AREAS OF SCIENTIFIC ENQUIRY

1. Development of Field Tested micropropagation protocols for large-scale production of plants of forestry, horticultural and medicinal importance.
2. Development of regeneration protocols via adventitious shoot bud differentiation and somatic embryogenesis.
3. Studies on the role of liquid culture system for growth and multiplication of plants *in vitro*.
4. Studies on CO₂ enrichment during *in vitro* growth and development of plants.
5. Studies on morphophysiological and biochemical characteristics of tissue culture raised plantlets.
6. Studies on culture vessel, vessel ventilation and gelling agent on micropropagation of plants.
7. Studies on use of VAM and other fungi for biopriming.
8. Encapsulation of shoot buds, their long term storage, and studies on their regrowth *in vitro*.
9. Molecular characterization of diversity in plants being used for micropropagation using RAPD and ISSR markers.
10. Screening of tissue culture raised plantlets for genetic fidelity using molecular (RAPD and ISSR) and cytological markers.

11. Optimization of conditions for *Agrobacterium*-mediated gene transfer in plants with special reference to disease resistance.
12. Analysis of mitotic complements and karyotype studies in tissue culture and naturally growing plants.
13. Protein profiling of tissue culture and naturally growing plants using SDS-PAGE.

C. SPECIALISED TRAINING AND ORIENTATION COURSES

1. Attended Ten Days workshop on “**Cell and Chromosome Research Methodology**” organised by the Department of Botany, Calcutta University, Kolkata. 1981. (Convener: Professor A.K. Sharma).
2. Summer Training Course on “**Nematode Diseases of Pulses and Oilseed Crops and Their Management**” organised by Department of Nematology, Rajasthan College of Agriculture, Udaipur. June 20-29, 1989 (Director: Prof. B.S. Yadav).
3. Four Week **Orientation Programme** for University and College Teachers, Organised by Academic Staff College, University of Jodhpur from July 14-August 10, 1989.
4. Received training in “**Basic methods of Molecular Biology and Transgenic Research**” at Delhi University South Campus, New Delhi May-Aug.2000 (Supervisor: Professor A.K. Tyagi).
5. Undergone training on “**Microarray Based Genome Analysis**” under the guidance of Professor David Galbraith at the Department of Plant Sciences, Arizona State University, Tucson, Arizona, USA from January 8-13, 2006.

D. TOOLS AND TECHNIQUES

Plant Tissue Culture

Methods of plant tissue, organ and protoplast culture. Large-scale production of tissue culture plants of forestry, horticultural and medicinal importance. Specialized techniques for hardening, acclimatization and field transfer of tissue culture plants. Green-house operation and management.

Biochemistry

Spectrophotometric determination of oxidative enzymes, primary and secondary metabolites, Electrophoretic separation of isozymes.

Cytology

Basic methods in cytology such as chromosome preparation, karyotyping and chromosome banding techniques.

Molecular Biology, Rec- DNA Technology, Transgenics and DNA Finger Printing

Plant DNA extraction, plasmid isolation, DNA purification, restriction digestion, Agarose gel preparation, profiling of DNA samples, RFLP techniques, Southern blotting, DNA hybridization, PCR amplification, Biolistics and *Agrobacterium* mediated gene transfer methods, Electroporation and Heat Shock methods of bacterial transformation.

Protein Analysis

Extraction, purification, SDS-PAGE and profiling.

Microbiology and Plant Pathology

Methods for isolation, culture and maintenance of microbial systems especially Bacteria and Fungi; their inoculation and disease development.

General Methods in Histology and Photography

Micro, Macro and field photography. Plant sample preparation and Microtomy.

Computer Applications

Working knowledge of basics, DOS, MS Word, Power Point, MS Excel, Internet etc.

E. SUPERVISION OF RESEARCH LEADING TO Ph.D. DEGREE

S. No.	Name	Date of Registration	Year of Award	Title of Synopsis
1.	Dr. Kiran Tak	07.9.1989	1993	Tissue Culture Studies on Some Forest Tree Species of Aravallis in Southern Rajasthan
2.	Dr. Renu Sukhwai	28.8.1989	1994	<i>In vivo</i> and <i>In vitro</i> Studies on Deranged Physiology of Maize Infected with <i>Helminthosporium</i> species
3.	Dr. Gotam Kumar Kukda (UGC-NET)	22.12.1990	1995	Clonal Propagation of Toy wood Tree – <i>Wrightia tinctoria</i> through Tissue Culture Biotechnology
4.	Dr. Ashish Dave	22.12.1990	1995	<i>In vitro</i> Multiplication of Some Economically Important Plant Species of Aravallis in Rajasthan
5.	Dr. Pawan Kumar Sharma	22.12.1990	1996	Tissue Culture Studies on two <i>Acacia</i> Species of Aravallis in Southern Rajasthan

S. No.	Name	Date of Registration	Year of Award	Title of Synopsis
6.	Dr. Preeti Joshi (UGC-NET)	25.5.1994	1997	Studies on Scale-up Production, Field Performance and Comparative Evaluation of Micropropagated Tree- <i>Wrightia tomentosa</i> Roxb. Roem et Schult
7.	Dr. Anamika Singhvi (CSIR-NET)	29.9.1993	1998	Studies on <i>in vitro</i> Differentiation, Multiplication and Evaluation of Some Fruit Tree species of Aravallis in Rajasthan
8.	Dr. Dheera Samar	1.6.1996	1999	Studies on Scaling-up Production, Hardening and Comparative Evaluation of Some Micropropagated Tree Species
9.	Dr. Rakhi Nagori	1.6.1996	1999	Further Studies on Micropropagation of <i>Achras sapota</i> and <i>Annona squamosa</i>
10.	Dr. Sanjog Sharma	15.12.1998	2002	Evaluation of Some Micropropagated Tree Species During their <i>In vitro</i> Growth, Hardening Acclimatization and Field Transfer
11.	Dr. Geeta Bilochi	23.1.1999	2002	<i>In vitro</i> Studies on some Medicinal Plants of Aravallis in Rajasthan
12.	Dr. Pravina Rathore (CSIR-NET)	1.8.2001	2004	Further Studies on Micropropagation of Some Medicinal Plants of Aravallis in Rajasthan
13.	Dr. Namita Dave (CSIR-NET)	30.8.2001	2004	Factors Influencing Micropropagation of Two Varieties of <i>Achras sapota</i> and their Root Stock <i>Mimusops hexandra</i>
14.	Dr. Neelu Joshi (UGC-NET)	3.9.2002	2005	<i>In Vitro</i> Scaling-up Production, Molecular Characterization and evaluation of 'Safed Musli' (<i>Chlorophytum borivilianum</i> Sant. Et Fernand.)
15.	Dr. Shailendra Vyas (CSIR-NET)	7.7.2001	2006	Studies on Plant Tissue Culture and Somatic Cell Genetics of <i>Feronia limonia</i>

S. No.	Name	Date of Registration	Year of Award	Title of Synopsis
16.	Dr. Manohar Singh Rao (CSIR-NET)	6.9.2002	2007	Factors influencing Micropropagation, Hardening, Acclimatization and Field Performance of <i>Celastrus paniculatus</i> Willd.
17.	Mr. Rajesh Suthar	4.9.2004	2009	Studies on Factors Influencing Hardening and Acclimatization of Tissue Culture Propagules of <i>Boswellia serrata</i> Roxb. And <i>Terminalia bellerica</i> Roxb.
18.	Mrs. Rohini Trivedi (CSIR-NET)	25.2.2004	2010	Studies on <i>In Vitro</i> Regeneration and Genetic Transformation of Groundnut Using Rice Chitinase Gene
19.	Miss Parul Mathur	5.9.2005	2010	Evaluation of Fidelity of Micro-clones of 'Safed Musli' (<i>Chlorophytum borivilianum</i> Sant. et Fernand.)
20.	Mrs. Nazima Habibi	2.4.2007	2011	Morpho-Physiological Studies on Some Micropropagated Plants as Influenced by Liquid Culture System and Culture Vessel Environment
21.	Mr. Khushdil Khan (CSIR-NET)	30.3.2006	2011	Molecular and Cytological Screening of Micro-clones of <i>Wrightia tomentosa</i> (Roxb.) Roem et Schult.
22.	Mr. Preetam Joshi (CSIR-NET)	2.4.2007	2012	Evaluation of Fidelity in Tissue Culture Derived Microclones of "Wood Apple" (<i>Feronia limonia</i> (L.)Swingle) Using Genetic Markers
23.	Mr. Manish Chittora (UGC-NET)	24.9.2007	2012	Evaluation of Fidelity in Tissue Culture Derived Micro-clones of <i>Achras sapota</i> L. var. 'Cricket Ball' using Genetic Markers
24.	Mrs Poonam Sharma (CSIR-NET)	19.01.09	2013	Molecular Analysis of Genetic Diversity in Natural Populations <i>Boswellia serrata</i> Roxb.
25.	Miss Dimple Suthar (CSIR-NET)	19.01.09	2015	Studies on <i>in vitro</i> Adventitious Shoot Bud Differentiation and Plantlet Regeneration in <i>Annona squamosa</i> Linn.

S. No.	Name	Date of Registration	Year of Award	Title of Synopsis
26.	Mrs. Vinita Devpura UGC NET	19.1.2009	2015	Assessment of Diversity Among Natural Populations of <i>Anogeissus latifolia</i> Wall. Using Molecular Markers
27.	Mrs. Priyanka Babel (UGC NET)	1.10.2010	2017	Leaf Ultra-structure and Physiological Studies during Micropropagation of <i>Feronia limonia</i> (L.) Swingle Under Different Culture Environment.
28.	Ms. Nikita Goswami	1.3.2014	2017	Studies on the effect of certain growth factors on in vitro regeneration shoot growth and physiology of <i>Celastrus paniculatus</i> Willd.

F. Supervision of Dissertation Leading to M. Sc. /B. Sc. / B. Tech. / B.E Degrees

S. No.	Name	Year	Title of Dissertations
1.	Mr. Chuna Ram Chaudhary	1998-99	Effect of polyamines on the rate of shoot multiplication during micropropagation of <i>Achras sapota</i> .
2.	Ms. Khushhali Menaria	1998-99	Factors affecting <i>in vitro</i> multiplication of a rare medicinal herb "Safed Musli" (<i>Chlorophytum borivilianum</i>).
3.	Ms. Harshada Joshi	1999-2000	<i>In vitro</i> response of <i>Nicotiana tabacum</i> to PGRs and polyamines.
4.	Ms. Nazima Habibi	1999-2000	Somatic embryogenesis in <i>Themeda quadrivalvis</i> : its induction, regulation and evaluation.
5.	Ms. Ankana Mandal	2000-01	Effect of some macro- and micronutrients on growth and multiplication of <i>Wrightia tomentosa</i> and <i>Wrightia tinctoria</i> .
6.	Ms. Neelu Joshi	2001-01	Effect of plant growth regulators and polyamines on <i>in vitro</i> adventitious shoot bud regeneration in <i>Feronia limonia</i> .
7.	Ms. Shipra Bhardwaj	2001-02	Influence of gelling agents and type of sugar on micropropagation of some plants of forestry and medicinal importance.
8.	Mr. Abhishek Gandhi	2001-02	Influence of CO ₂ enrichment and carbon nutrition on <i>in vitro</i> growth and shoot multiplication in some woody plants.
9.	Ms. Mamta Gadiya	2002-03	<i>Agrobacterium</i> -mediated genetic transformation in some dicot plants of medicinal importance.
10.	Ms. Pallavi Dwivedi	2002-03	<i>Agrobacterium</i> -mediated genetic transformation studies in some monocots.

S. No.	Name	Year	Title of Dissertations
11.	Ms. Komal Chhabra	2003-04	Antisense RNA technology and its potential applications.
12.	Mr. Narendr Kumar	2003-04	Synthetic seed-production and uses.
13.	Ms. Madhu Pareek	2003-04	Genetically engineered plants and their future prospects.
14.	Ms. Arti Doshi	2003-04	Somaclonal variation and its application.
15.	Ms. Candida Vaz	2003-04	Micropropagation and its application in forestry.
16.	Ms. Prabha Rathore	2004-05	Proteomics.
17.	Ms. Madhu Rathore	2004-05	Edible vaccines.
18.	Ms. Vandana Verma	2004-05	Genetic engineering of plants for better nutrition and quality.
19.	Ms. Priyanka Dadheech	2004-05	Serial analysis of gene expression (SAGE).
20.	Mr. Pranav Paliwal	2004-05	Effect of liquid phase culture on <i>in vitro</i> growth, physiology and biochemistry of <i>Terminalia bellerica</i> .
21.	Ms. Chani Gairola	2004-05	Effect of plant growth regulators on <i>in vitro</i> growth, physiology and biochemistry of <i>Celastrus paniculatus</i> .
22.	Ms. Anjaly Bharty	2004-05	Effect of plant growth regulators on <i>in vitro</i> growth, physiology and biochemistry of <i>Terminalia bellerica</i> .
23.	Ms. Deepti Sharma	2004-05	Effect of plant growth regulators on <i>in vitro</i> growth, physiology and biochemistry of <i>Chlorophytum borivilianum</i> .
24.	Mr. Ramnarayan Dangi	2004-05	Assessment of activity of oxidative enzymes during <i>in vitro</i> rooting in <i>Chlorophytum borivilianum</i>
25.	Mr. Dharmendra Kumar Maletiya	2004-05	Evaluation of some oxidative enzymes during <i>in vitro</i> root development in <i>Feronia limonia</i> .
26.	Mr. Mukesh Kumar Saini	2004-05	Changes in activity of some oxidative enzymes during <i>in vitro</i> rooting in <i>Terminalia bellerica</i> .
27.	Mr. Satyendra Kumar Yadav	2004-05	Biochemical studies during different stages of micropropagation in <i>Feronia limonia</i> (L.) Swingle.
28.	Mr. Ashutosh Dutta Sharma	2004-05	Assesment of peroxidase and IAA-oxidase activities during <i>in vitro</i> rooting in <i>Celastrus paniculatus</i> .
29.	Mr. Saurabh Mehta	2005-06	Role of carbon dioxide enriched environment during micropropagation of some medicinal plants of Aravallis of Rajasthan
30.	Mr. Sunil Kumar Pachar	2005-06	Optimization of factors influencing micropropagation of <i>Terminalia bellerica</i> Roxb.
31.	Mr. Anoop Garg	2005-06	<i>In vitro</i> scaling-up production of <i>Celastrus paniculatus</i> .
32.	Mr. Alok Kumar Gupta	2005-06	Biochemical evaluation of some metabolites during <i>in vitro</i> adventitious shoot bud differentiation and plantlet regression in <i>Celastrus paniculatus</i> willd.

S. No.	Name	Year	Title of Dissertations
33.	Ms. Gitanjali Mattar	2005-06	Molecular screening of tissue culture plants of <i>Chlorophytum borivilianum</i> sant. et. Fernand.
34.	Ms. Reena Singh	2005-06	Molecular screening of tissue culture plants of <i>Celastrus paniculatus</i> willd.
35.	Mr. Prabhat Pratap Singh Tomar	2005-06	Biochemical evaluation of some oxidative enzymes during in vitro adventitious shoot bud differentiation and plantlet regeneration in <i>Celastrus paniculatus</i> willd.
36.	Ms. Deepti Rani	2005-06	Effect of Cytokinin (BAP) on in vitro growth and shoot multiplication in <i>Chlorophytum borivilianum</i> sant. Et fernand.
37.	Mr. Rajani Kant Sharma	2005-06	Optimization of pre culture conditions for groundnut (<i>Arachis hypogaea</i> L.) transformation using <i>Agrobacterium tumefaciens</i>
38.	Mr. Raj Kumar Meena	205-06	Influence of sucrose on in vitro growth and shoot multiplication in <i>Feronia limonia</i> (L.) Swingle
39.	Mr. Sanjay Kumar	2005-06	Influence of ammonium nitrate on In vitro growth and shoot multiplication in <i>Celastrus paniculatus</i> willd.
40.	Miss Shakuntla Meena	2005-06	Optimization of bacterial cell density for <i>Agrobacterium</i> mediated gene transfer in groundnut (<i>Arachis hypogaea</i> L.)
41.	Mr. Sushil Saini	2005-06	Effect of Cytokinin (Kinetin) on in vitro growth and shoot multiplication in <i>Chlorophytum borivilianum</i> sant. Et. Fernand.
42.	Mr. Somveer Payal	2005-06	Influence of sucrose on in vitro Growth and shoot multiplication in <i>Boswellia serrata</i> Roxb.
43.	Mr. Sunil Kumar	2005-06	Effect of sucrose on in vitro growth and shoot multiplication in <i>Chlorophytum borivilianum</i> Sant. Et Fernand.
44.	Tanuj Goyal	2006-07	Test of Clonal Fidelity in Tissue Culture Raised Plantlets of <i>Celastrus paniculatus</i> Willd.
45.	Mr. Susheel Kumar	2005-06	Influence of potassium nitrate on in vitro growth and shoot multiplication in <i>Celastrus paniculatus</i> Willd.
46.	Miss Vishakha Chaudhary	2005-06	Influence of different gel strength on in vitro growth and shoot multiplication in <i>Terminalia bellerica</i> Roxb.
47.	Miss Jaideep Kour	2005-06	Assessment of Polymorphism in selected groundnut germplasm by RAPD Analysis
48.	Miss Sonal Sharma	2005-06	Evaluation of fidelity in microclones of <i>Feronia limonia</i>
49.	Miss Chhavi Srivastav	2005-06	Evaluation of fidelity of microclones of <i>Terminalia bellerica</i> .

S. No.	Name	Year	Title of Dissertations
50.	Miss Richa Jain	2006-07	<i>In vitro</i> rooting response in some plants as influenced by the type of auxins and method of their application
51.	Mr. Ram Chandra Ameta	2006-07	Assesment of variability in wild and cultivated <i>Aegle marmelos</i> using RAPD markers
52.	Miss Meena Kumari Shah	2006-07	Assesment of variability in two verities of maize (<i>Zea mays</i>) using ISSR markers
53.	Miss Preeti Charaya	2006-07	Assesment of variability in two verities of maize (<i>Zea mays</i>) using RAPD markers
54.	Miss Priyanka Gupta	2006-07	Assesment of variability in two verities of soybean (<i>Glycine max</i>) using ISSR markers
55.	Miss Anjana Sharma	2006-07	Assesment of variability in two verities of soybean (<i>Glycine max</i>) using RAPD markers
56.	Miss Tripti Gautam	2006-07	Assessment of variability in natural populations of <i>Terminalia bellerica</i> Roxb. using RAPD markers
57.	Miss Anita Bhadala	2006-07	Genetic Stability in micro-clones of <i>Celastrus paniculatus</i> derived from different explant sources as revealed by RAPD profiles
58.	Miss Santosh Nehra	2006-07	Assessment of variability between two species of <i>Wrightia</i> using RAPD markers
59.	Miss Riddhu Palawat	2006-07	Assessment of variability in natural population of <i>Santalum album</i> using RAPD markers
60.	Miss Priyanka Kishnawat	2006-07	Screening of RAPD primers for test of variability among genotypes of <i>Abrus precatorious</i> L
61.	Mr. Balwant Singh	2006-07	Assessment of variability in two verities of Urd (<i>Vigna mungo</i>) using RAPD markers
62.	Miss Anita Mahan	2007-08	Morpho-physiological investigations during micropropagation of <i>Terminalia bellerica</i> Roxb. on semi-solid and liquid culture system
63.	Miss Seema Choudhary	2007-08	Assessment of variability between two varieties of <i>Achras sapota</i> using RAPD markers
64.	Swayam Prabha Khandal	2007-08	Effect of Nitrogen Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Chlorophytum borivilianum</i>
65.	Rajlaxmi Aggarwal	2007-08	Effect of Nitrogen Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Feronia limonia</i>
66.	Anurag Sharma	2007-08	Study of Intergeneric Variability Among Some Leguminous Taxa as Revealed by RAPD and Protein Profiles
67.	Anita Saini	2007-08	Effect of Nitrogen Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Celastrus paniculatus</i>

S. No.	Name	Year	Title of Dissertations
68.	Anita Yadav	2007-08	Effect of Nitrogen Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Terminalia bellerica</i>
69.	Shruti Paliwal	2007-08	Effect of Carbon Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Celastrus paniculatus</i>
70.	Neetu Joshi	2007-08	Effect of Carbon Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Terminalia bellerica</i>
71.	Vanadana Vyas	2007-08	Effect of Carbon Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Chlorophytum borivilianum</i>
72.	Silochana Kumari	2007-08	Effect of Carbon Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Wrightia tomentosa</i>
73.	Neetu Raj Kanwar	2007-08	Effect of Phosphorus Nutrition on Growth and Photosynthetic Efficiency of <i>In Vitro</i> Grown <i>Chlorophytum borivilianum</i>
74.	Garima Sharma	2008-09	Test of Variability During Micropropagation of <i>Feronia limonia</i> Through Callus Organogenesis Using RAPD Markers
75.	Juhi Dhakar	2008-09	Comparison Between RAPD and ISSR Molecular Markers in Detecting Genetic Variation in <i>Feronia limonia</i>
76.	Shalagha Yadav	2008-09	Molecular Screening of Micro-clones of <i>Wrightia tomentosa</i> (Roxb.) Roem et Schult. Using RAPD Markers
77.	Himangini Sharma	2008-09	Assessment of Variability Between <i>Chlorophytum borivilianum</i> and <i>C. tuberosum</i> Using RAPD Markers
78.	Vijay Kumar Khandelwal	2008-09	Assessment of Variability Between Two Varieties of <i>Achras sapota</i> L. Using RAPD Markers
79.	Rajan Sankhala	2008-09	Assessment of Variability Between Two Varieties of <i>Abelmoschus esculentus</i> L. Using RAPD Markers
80.	Suman Kanshana	2008-09	Stomatal and Physiological Characterization of <i>Terminallia bellerica</i> under Varied Culture conditions
81.	Bhanupriya Sharma	2008-09	Evaluation of Protein Profile During Callus Organogenesis in <i>F. limonia</i> Using SDS-Page
82.	Bhumika Dashora	2008-09	Comparative Evaluation of DNA profiles in Leaf and Root Samples of Two Species of <i>Chlorophytum</i> using RAPD Markers
83.	Vinita Yadav	2008-09	Determination of Inter- Varietal Polymorphism in <i>Zea Mays</i> L. using RAPD markers
84.	Nishtha Yadav	2008-09	Determination of Relatedness/Distance Among Different Genera of Family Solanaceae using protein Profiles.
85.	Kalpna Meena	2008-09	Determination of Relatedness/Distance Among different Genera of Family Leguminaceae using protein Profiles.

S. No.	Name	Year	Title of Dissertations
86.	Anjali Sharma	2009-10	DNA Isolation, Purification and PCR Amplification in some Oleo- Gum Resin Plant of Semi-Arid Region
87.	Akansha Tiwari	2009-10	DNA Isolation, Purification and PCR Amplification in some Solanaceous Plants of Aravallis in Rajasthan
88.	Nishant Upadhyay	2009-10	Comparative Evaluation of RAPD and ISSR Markers for Assessment of Variability Among Wild Populations of <i>Aegle marmelos</i>
89.	Pushpika Udawat	2009-10	Assessment of variability among Natural populations of <i>Annona squamosa</i> Using RAPD Markers
90.	Shalini Tailor	2009-10	Detecting the Inter- Varietal Mixing in <i>Zea Mays</i> L. using RAPD markers
91.	Neha Singh	2009-10	Detecting Inter-varietal Polymorphism in Three Guar (<i>Cyamopsis tetragonoloba</i>) Varieties Using RAPD Markers”
92.	Dhawni Sharma	2011-12	Assessment of Genetic Fidelity in tissue Culture Raised Micro-Clones of <i>Cordyline</i> sp. By RAPD Markers.
93.	Othima Sharma	2012-13	Comparative studies on Growth and biochemical characteristics of <i>Gerebra</i> in semi solid and liquid media.
94.	Sunita Nagda	2015-16	Effect of salicyclic acid on in vitro growth and some biochemical characteristics of <i>Celastrus paniculatus</i>

G. NATIONAL AND INTERNATIONAL CONFERENCES AND SYMPOSIA ATTENDED

1. International Symposium on arid zone research, Central Arid Zone Research Institute, **Jodhpur**, India, Feb. 14-18, 1978.
2. Symposium on plant disease problems, Society of Mycology and Plant Pathology, Udaipur, held at **Jaipur**, Oct. 1-3, 1978.
3. 4th Plant Tissue Culture Conference, Department of Botany, University of **Jodhpur**, India, March 1-3, 1979.
4. All India Symposium on Developmental Biology, Department of Zoology, Jiwaji University, **Gwalior**, Dec. 13-15, 1979.
5. Symposium on plant tissue culture, genetic manipulation and somatic hybridization of plant cells. Bhabha Atomic Research Centre, Trombay, **Bombay**, Feb. 27-29, 1980.
6. 5th Plant Tissue Culture Conference, Bhabha Atomic Research Centre, Trombay, **Bombay**, March 1-2, 1980.
7. 6th Plant Tissue Culture Conference, Department of Botany, Poona University, **Pune**, Feb. 19-21, 1981.
8. National Symposium on Evaluation of our Environment. Department of Zoology, Univ. of **Jodhpur**, April 27-29, 1981.

9. International Joint Meeting of the Association of Applied Biologists, Federation of British Plant Pathologists and International Society of Plant Pathologists, Oxford, **England**, July 27-31, 1981.
10. 3rd National Conference on Mycoplasma and allied pathogens of plants, Animals and Man. Department of Botany, Rajasthan University, **Jaipur**. January 9-11, 1982.
11. 70th Session of Indian Science Congress Association held at S.V. University, **Tirupati**, January 3-8, 1983.
12. National Symposium on Advancing Frontiers of Plant Sciences. Department of Botany, University of Jodhpur, **Jodhpur**, India, November 26-30, 1983.
13. Seminar on Wetland and the Conservation, Sukhadia University, **Udaipur**, India, Nov. 27-29, 1987.
14. Third National Environment Congress, Department of Botany, College of Science, Sukhadia University, **Udaipur**, India, Dec. 28-29, 1988.
15. National Symposium on Recent Advances in Biological Nitrogen Fixation, Department of Botany, College of Science, Sukhadia University, **Udaipur**, India, Nov. 10-12, 1989.
16. National Symposium on advances in Plant Sciences: Current status and Emerging Challenges, Department of Botany, M.L. Sukhadia University, **Udaipur**, September 21 - 23, 1990.
17. The XV Annual Meeting of the Tissue Culture Association of India, Department of Microbiology and cell Biology, Indian Institute of Science, **Bangalore**, Feb. 19-21, 1992.
18. The XVI Annual Meeting of Plant Tissue Culture Association and Symposium on Plant Tissue Culture and its Biotechnological Applications, Department of Botany, Rajasthan University, **Jaipur**. March 1 - 3, 1993.
19. National Symposium on Emerging Trends in Plant Tissue Culture and Molecular Biology and XX Meeting of Plant Tissue Culture Association, Department of Genetics, Osmania University, **Hyderabad**, January 29-31, 1997.
20. Workshop on Patent Awareness Sponsored by TIFCAC, DST, Govt. of India, N. Delhi and organised by State DST, **Jaipur**. January 29, 1998.
21. National Symposium on Commercial Aspects of Plant Tissue Culture, Molecular Biology and Medicinal Plant Biotechnology and XXI Meeting of the PTCA (India), Jamia Hamdard, **N. Delhi**. Feb. 25-27, 1998.
22. User's Workshop on "Problems and Potentials of Field Performance of Some Micropropagated Tree Species of Aravallis in Rajasthan" Department of Botany, M.L. Sukhadia University, **Udaipur**. July 19, 1998 (Convenor: Dr. S.D. Purohit).
23. National Symposium on Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development and XXII Meeting of the PTCA (India), G.B. Pant Institute of Himalayan Ecology and Development, **Kosi-Katarmal, Almora**. June 7-9, 1999.
24. National Workshop on Commercialization of Plant Tissue Culture-Role of Micropropagation Technology Parks. Hotel Le Meridien, **New Delhi**. Organized by Biotech Consortium India Ltd., June 14, 1999.

25. National Symposium on Prospects and Potential of Plant Biotechnology in India in the 21st Century 23rd Annual Meeting of PTCA (India), Deptt. of Botany, Jai Narayan Vyas University, **Jodhpur**, 18th-21st October, 2000 (Convenor: Dr. N.S. Shekhawat).
26. National Symposium on Plant Biotechnology and Molecular Biology and XXIV Annual Meeting of Plant Tissue Culture Association (India), Department of Genetics, University of Delhi South Campus, **New Delhi**. October 12–14, 2001 (Convenor: M. V. Rajam)
27. National Interactive Meet- Scope and Opportunities in Research and Business of Medicinal and Aromatic Plants, **Lucknow**, organised by CIMAP (CSIR), May17-18, 2002 (Convenor: Dr. S. P. S. Khanuja)
28. National Symposium on “Environmental Biotechnology and Biodiversity Conservation” Department of Biosciences, Sardar Patel University, **Vallabh Vidhyanagar**, (Gujarat).Jan.1-Feb.1, 2003.
29. National Symposium on “Plant Biotechnology : Role in Sustainable Development” and 25th PTCA(I) Meeting Department of Botany, Rajasthan University, **Jaipur** Feb.17-19,2003,(Convenor : Professor Ashwini Kumar).
30. Plant and Animal Long-oligonuclotide Microarray Workshop held at Tuscon, Arizona State University, **Arizona**, USA from January 8-13, 2006 (Convenor: Prof. Galbraith)
31. National Seminar on “Biodiversity and Conservation of Medicinal and Aromatic Plants” organized by Indian Environmental Society, February 4-5, 2006, **Udaipur** (Convenor: Dr. R. K. Garg).
32. National Symposium on “Plant Biology, Environmental Protection and Biotechnology” organised by Department of Botany, Mohanlal Sukhadia University, **Udaipur** from October 9-11,2006 (Organizing Secretary : Dr.S.S.Katewa).
33. Workshop on “Biotechnology and Hands-on-Training on Application of Polymerase Chain Reaction and DNA Sequencing” organized by Dolphin (PG) Institute of Biomedical and Natural Sciences, **Dehra Dun**, October 3-7, 2007.
34. 2nd Uttarakhand State Science Congress. Uttarakhand State Council for Science and Technology, Organized by Kumaun University, **Nainital**, from November 15-17, 2007.
35. National Symposium on “Plant Biotechnology for Conservation, Characterization and Crop Improvement” along with the 29th Annual Meeting on Plant Tissue Culture Association (India) from February 8-10, 2008, organised by Department of Biotechnology, Mohanlal Sukhadia University, **Udaipur**.
36. 4th International Symposium on “Acclimatization & Establishment of Micropropagated Plants” organized by In Vitro International Pvt. Ltd. **Bangalore**, from December 8-12, 2008 (Convenor: Dr. J. Prakash).
37. Indo-US Bilateral Workshop on “Mapping Humans and Nature Together: Geospatial Technology in Wildlife Conservation” organized by The School of Desert Sciences, **Jodhpur**, December 12-15, 2008.
38. International Medicinal and Aromatic Plant Symposium organized by Shiraz University and International Society for Horticultural Sciences, Shiraz, **Iran**, June 21-23, 2010

39. International Conference on Folk and Herbal Medicine (Organizing Secretary- Prof. S.S. Katewa), Department of Botany, Mohanlal Sukhadia University, Udaipur, December 25-27, 2010 (chaired a session).
40. Symposium on Natural resource management in agriculture organized by PROM Society (Organizing Secretary-M.K. Katewa), Maharana Pratap University of Agriculture and Technology, Udaipur, December 10-11, 2010, (co-chaired a session).
41. International Symposium on Medicinal and Aromatics Plants held at Botanical Garden, Montreal, Canada (July 17-19, 2013).
42. One Day Seminar on Challenges in Teaching and Research in Chemistry and Biology, Sponsored by Indian Society of Chemists and Biologists, Local Chapter-Udaipur. July 23, 2016.
43. National Symposium on Biotechnology for Agriculture and Environment held at P.G. Mahila Mahavidyalaya, Jodhpur (18-19 November, 2016).
44. National Conference on Environment Sciences and Technology held at Maharaja Ganga Singh University, Udaipur (March 8-9, 2017)
45. 5th International Phytocosmetics and Phytotherapy Congress, University of Patras, Greece May 12-17, 2017.
46. International Congress on “Plant Based Natural Products: Phytocosmetics, Phytotherapeutics and Phytonutaceuticals” held at Mohanlal Sukhadia University, Udaipur from February 19-21, 2018.
47. National Seminar on “Modern Trends in Research Methodology” held at Tantiya University, Sriranganagar, Rajasthan, from January 7-8, 2019.
48. National Seminar on “Innovative Approaches in Plant Tissue Culture” held at Atmiya University, Rajkot, Gujarat from February 21-22, 2019.
49. International Phytocosmetic and Phytotherapy Congress, IPPC-Greece-2021 (Virtual) held at Athens, May 19-21, 2021.

H. ORGANISATION OF SCIENTIFIC ACTIVITIES

1. **Member**, Organizing Committee, 4th Plant Tissue Culture Conference held at the Department of Botany, University of Jodhpur, Jodhpur, March 1-3, 1979 (Director: Prof. H.C. Arya).
2. **Member**, Organising Committee, National Symposium on Advancing Frontiers of Plant Sciences, Department of Botany, Univ. of Jodhpur, Jodhpur, Nov. 26-30, 1983 (Director: Prof. H.C. Arya).
3. **Member**, Organizing Committee Seminar on Wetland and their Conservation held at Sukhadia University, Udaipur Nov. 27-29, 1987 (Director: Prof. L.N. Vyas).
4. **Organising Secretary**, National Science Day Celebrations, Department of Botany, Sukhadia University, Udaipur Feb. 28, 1988.
5. **Member**, Organizing Committee, Third National Environment Congress held at Sukhadia University, Udaipur from Dec. 28-29, 1988 (Convenor: Prof. L.N. Vyas).

6. **Organising Secretary**, National Science Day Celebrations, Department of Botany, Sukhadia University, Udaipur, Feb. 28, 1989.
7. **Member**, Organising Committee, National Symposium on Recent Advances in Biological Nitrogen Fixation, Department of Botany, College of Science, Sukhadia University, Udaipur November 10-12, 1989. (Convenor: Dr. V.K. Sharma).
8. **Member**, Organising Committee, National Seminar on Water Management Techniques for Minimising Environment Degradation, Department of Botany, Sukhadia University, Udaipur March 5-7, 1990. (Director: L.N. Vyas).
9. **Member**, Organising Committee, National Symposium on Advances in Plant Sciences: Current Status and Emerging Challenges, Department of Botany, College of Science, Sukhadia University, Udaipur, September 21-23, 1990. (Convenor: Dr. B.L. Choudhary).
10. **Organising Secretary**, National Science Day Celebrations, Department of Botany, Sukhadia University, Udaipur. February 28, 1996.
11. **Convenor**, Users Workshop on "Problems and Potentials of Field Performance of Some Micropropagated Tree Species of Aravallis in Rajasthan" Department of Botany, M.L. Sukhadia University, Udaipur July 19, 1998.
12. **Member**, Scientific Advisory Committee. National Symposium on Prospects and Potential of Plant Biotechnology in India in the 21st Century 23rd Annual Meeting of PTCA (India), Deptt. of Botany, Jainarayan Vyas University, Jodhpur, 18th-21st October, 2000 (Convenor: Dr. N.S. Shekhawat).
13. **Member**, Scientific Advisory Committee, Neuroscience Symposium, Department of Zoology, Mohanlal Sukhadia University, Udaipur. (Convenor: M. Bhatnagar).
14. **Member**, National Symposium on Plant Physiology, Department of Plant Physiology, Rajasthan College of Agriculture, Udaipur. (Convenor: K.K. Bora).
15. **Member**, National Meeting of the PROM, Maharana Pratap University of Agriculture and Technology, Udaipur (Convenor: M.S. Shaktawat).
16. **Organising Secretary**, Awareness Workshop on "Biotechnology: Development and Opportunities" Sponsored by State Department of Science and Technology, Govt. of Rajasthan and Organised at The Department of Biotechnology, Mohanlal Sukhadia University, Udaipur. 28th March 2005.
17. **Organising Secretary**, Short Term Training Course on Modern Methods of Molecular Biology and Biotechnology. December 16-25, 2005 Sponsored by University Grants Commission, New Delhi.
18. **Joint Secretary**, National Symposium on Plant Biology, Environmental Protection and Biotechnology Organized by Department of Botany, Mohanlal Sukhadia University, Udaipur. October 9-11, 2006.
19. **Joint Secretary**, National Conference on Environmental Science: Current Status and Emerging Challenges organized by Department of Botany, Mohanlal Sukhadia University, Udaipur. November 16-17, 2007.

20. **Member**, Organising Committee, International Symposium on Organic Farming and Renewable Sources of Energy for Sustainable Agriculture organized by PROM Society, Maharana Pratap University of Agriculture and Technology and Mohanlal Sukhadia University, Udaipur. November 19, 2007.
21. **Organising Secretary**, National Symposium on “Plant Biotechnology for Conservation, Characterization and Crop Improvement” along with the 29th Annual Meeting on Plant Tissue Culture Association (India) from February 8-10, 2008, organised by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur.
22. **Chairman**, Scientific Committee in International Conference on Folk and Herbal Medicine (Organizing Secretary- Prof. S.S. Katewa), December 25-27, 2010, Department of Botany, Mohanlal Sukhadia University, Udaipur.
23. **Member**, International Scientific Committee, “International Symposium on Medicinal Plants and Natural Products” held at Biodiversity Centre, Montreal, Qubec, Canada from June 17-19, 2013.
24. **Co-Organizer**, One Day Seminar on “Challenges in Teaching and Research in Chemistry and Biology, Sponsored by Indian Society of Chemists and Biologists, Local Chapter-Udaipur. July 23, 2016.
25. **Mentor**, National Workshop on Aptitude Development and Conceptualization of Research in Biological, Chemical and Interdisciplinary Sciences, ISCB, Local Chapter, Udaipur, February 26, 2017.
26. **Member**, Scientific and Editorial Committee, 5th International Phytocosmetics and Phytotherapy Congress, University of Patras, Patras, Greece.
27. **Chairman**, International Congress on “Plant Based Natural Products: Phytocosmetics, Phytotherapeutics and Phytonutaceuticals” held at Mohanlal Sukhadia University, Udaipur from February 19-21, 2018.
28. **Mentor**, National Seminar on “Conceptualization of Research Ideas and Development of Research aptitude in Chemical, Biological and Interdisciplinary Sciences” held at Lachoo Memorial College of Science and Technology, Jodhpur, February 25, 2018.
29. **Member**, International Scientific Committee, “9th International Phytocosmetic and Phytotherapy Congress” Recife, Pernambuco, Brazil, November 27-29, 2019.
30. **Co-Chair**, International Phytocosmetic and Phytotherapy Congress (Ippc-2021 Greece, Virtual) may 19-21, 2021.

I. MEMBERSHIP OF SCIENTIFIC ORGANIZATIONS

- 1) **Life Member**, Indian Science Congress Association, Calcutta.
- 2) **Member**, Indian Botanical Society, Meerut.
- 3) **Fellow Member**, Plant Tissue Culture Association (India), Pune.
- 4) **Life Member**, Indian Society of Plant Genetic Resources, New Delhi.
- 5) **Life Member**, Indian Society of Mycology and Plant Pathology, Udaipur
- 6) **Life Member**, Indian Horticulture Society, New Delhi.

7) **Councillor**, Indian Society of Plant Genetic Resources, IARI, New Delhi (1996-97).

J. MEMBERSHIP OF ACADEMIC BODIES

- 1) **Member**, Committee of Courses in Environmental Sciences, Mohanlal Sukhadia University, Udaipur (1997-2000)
- 2) **Member**, Committee of Courses in Biotechnology, M.L. Sukhadia University, Udaipur, (1997-2000, 2000-2002, 2002-2004, 2004-2006 and 2007-2010).
- 3) **Member**, Board of Studies in Biotechnology, Barkattullah University, Bhopal (2001-2002 and 2002-2004).
- 4) **Member**, Board of Studies in Biotechnology (Vocational Course), M.D.S. University, Ajmer (2001-2002 and 2002-2004).
- 5) **Member**, Board of Studies in Botany, Jainarain Vyas University, Jodhpur (2002-2004).
- 6) **Member**, Committee of Courses in Botany, M.D.S. University, Ajmer. (2002- 2004).
- 7) **Member**, Central Placement Committee, PTET, Mohanlal Sukhadia University, Udaipur 2000).
- 8) **Member**, Central Placement Committee, PTET, Jainarain Vyas University, Jodhpur
- 9) (2001-2003).
- 10) **Member**, Committee of Courses in Botany, Mohanlal Sukhadia University, Udaipur. (2003-2005 and 2007-2010).
- 11) **Member**, DBT Steering Committee, Hardening Unit, Department of Botany, Jainarain Vyas University, Jodhpur.
- 12) **Member**, Working Group for Establishment of State Biotechnology Research and Application Centre, Govt. of Rajasthan, Jaipur.
- 13) **Member**, Task Force for Biotechnology Policy for the State of Rajasthan, Govt. of Rajasthan, Jaipur.
- 14) **Member**, Nominated by State Planning Department, Government of Rajasthan on Working Sub-Group for Policy Formulation on Agricultural Education and Research Prioritization in the State of Rajasthan.
- 15) **Member**, Nominated by Vice-Chancellor, Mohanlal Sukhadia University on Faculty of Science (2006-2009).
- 16) **Member**, Committee of Courses in Microbiology, Barkattullah University, Bhopal (2007-2010).
- 17) **Member**, Advisory Committee, Lord Buddha College and Research Institute, Udaipur.
- 18) **Member**, Advisory Committee, Aryabhata International College of Technical Education, Ajmer.
- 19) **Member**, Committee of Courses in Botany, Mohanlal Sukhadia University, Udaipur. (2007-2010).
- 20) **Member**, Committee of Courses in Biotechnology, Mohanlal Sukhadia University, Udaipur. (2007-2010).

- 21) **Member**, Committee of Courses in Biotechnology, Bikaner University, Bikaner (2007-2008).
- 22) **Member**, Committee of Courses in Microbiology, M.L. Sukhadia University, Udaipur (2007).
- 23) **Member**, Committee of Courses in Biotechnology, University of Kota, Kota (2007).
- 24) **Member**, Subject Research Committee in Botany, University of Kota, Kota. (2007).
- 25) **Member**, Committee of Courses in Microbiology, University of Kota, Kota (2008).
- 26) **Member**, Nominated by Vice-Chancellor, Mohanlal Sukhadia University on Management Committee and Selection Committee for appointment of teachers at Jyotiba Phule Teachers Training College, Udaipur (2008-2011).
- 27) **Subject Expert**, Nominated by Biotechnology (English-Hindi) Dictionary Making Committee, Commission for Scientific and Technical Terminology, New Delhi.
- 28) **Member**, nominated by ICFRE as of Research Advisory Group, Arid Forestry Research Institute, Jodhpur.
- 29) **Member**, Board of Studies in Biosciences and Biotechnology, Vanasthali Vidhyapith, Vanasthali University, Vanasthali, Rajasthan.
- 30) **Member**, nominated by Board of Studies in Department of Microbiology, Faculty of Engineering, Management and Life Sciences, IASE Deemed University, Gandhi Vidya Nagar, Sardarshahr, Rajasthan.
- 31) **Member**, nominated by Committee of Courses in Botany and Biotechnology, Lachoo Memorial College of Science, Technology and Management, Jodhpur (2015-2018).
- 32) **Member** nominated by Board of Studies in Biotechnology, Pandit Ravi Shanker Shukla University, Raipur, Chattisgarh (2015-2017).
- 33) **Member** nominated by Board of Management, Board of Secondary Education, Ajmer (2015-2017).
- 34) **Member**, Nominated by, Advisory Committee, International Society of Phytocosmetic Sciences, Boston, USA.
- 35) **Member**, Committee of Courses in Biotechnology, Mohanlal Sukhadia University, Udaipur (2014-2017).
- 36) **Member**, Board of Studies in Botany, Faculty of Science, Pacific Academy of Higher Education and Research University, Udaipur.
- 37) **Member**, Board of Studies in Botany and Biotechnology, Lachoo Memorial College of Science and Technology (Autonomous), Jodhpur (2015-2018).
- 38) **Member**, Committee of Courses in Biotechnology and Microbiology, Kota University, Kota (2016).
- 39) **Member**, Board of Studies in Biotechnology, Mewar University, Chittorgarh, Rajasthan (2016).
- 40) **Member**, Board of Studies in Botany, M.D.S. University, Ajmer (2017-2019).
- 41) **Member**, Board of Studies in Botany and Biotechnology, University of Kota, Kota

- (2018).
- 42) **Member**, Board of Studies in Botany, University of Kota, Kota (2019-2021).
 - 43) **Member**, Committee of Courses in Botany and Biotechnology, Lachoo Memorial College of Science and Technology, Jodhpur (2015-2018).
 - 44) **Member**, Committee of Courses in Botany and Biotechnology, Lachoo Memorial College of Science and Technology, Jodhpur (2019-2021).
 - 45) **Member**, Committee of Courses in Biotechnology, University of Kota, Kota (2019-2020).
 - 46) **Member**, Committee of Courses in Microbiology, University of Kota, Kota (2020-2021)
 - 47) **Member**, Board of Studies in Botany, M.D.S. University, Ajmer (2020-2021).
 - 48) **Member**, Board of Studies in Botany, Faculty of Science, Pacific Academy of Higher Education and Research University, Udaipur (2020-2021).
 - 49) **Member**, Committee of Courses in Biotechnology, University of Kota, Kota (2021 to...).

K. POSITIONS HELD IN SCIENTIFIC BODIES

- 1) **Secretary**, Botanical Society, University of Jodhpur, Jodhpur (1976-77).
- 2) **Councillor**, Rajasthan Horticulture Society, Jobner, Rajasthan (1979-80).
- 3) **Councillor**, Botanical Society, Sukhadia University, Udaipur (1987-88).
- 4) **Advisor**, Botanical Society, Sukhadia University, Udaipur (1987-88).
- 5) **Advisor**, Botanical Society, Sukhadia University, Udaipur (1988-89).
- 6) **Senior Editor**, (Asia) International Journal of Phytocosmetics and Natural Ingredients, Boston, USA (2015).
- 7) **Co-Coordinator**, Indian Society of Chemists and Biologists, Local Chapter-Udaipur (2016).
- 8) **General Secretary**, Society for Promotion of Science Education and Research (SPSER), Udaipur, Rajasthan (2019 to date)

L. RESOURCE PERSON

- 1) Summer Institute in Botany for College Teachers, Department of Botany, University of Jodhpur, Jodhpur, 1980.
- 2) UGC Sponsored Refresher Course in Botany for University and College Teachers, Department of Botany, J N Vyas University, Jodhpur. August 1998.
- 3) Brain Storming Session on Interaction between Industry and Universities. Organized by Udaipur Chamber of Commerce and Industry, August 17, 1999.
- 4) Workshop on Conservation of Biodiversity and Medicinal Plants, Organized by Indian Environment Society, Udaipur. Feb. 26, 2000.
- 5) UGC Refresher Course in Environmental Sciences, MDS University, Ajmer (2002, 2003).
- 6) UGC Rrefresher course in Enviromental Sciences, Mohanlal Sukhadia University,

- Udaipur. (2003, 2004).
- 7) UGC Refresher Course In “Plant Biotechnology”, Department of Botany, Mohanlal Sukhadia University, Udaipur (2004).
 - 8) Post-Graduate Diploma Course in Organic Farming, College of Technology and Agricultural Engineering, Udaipur in collaboration with Morarka Foundation, Jaipur. (2003-2004).
 - 9) Summer School in Biology for School Teachers of Kendriya Vidhyalaya Sangathan, New Delhi organised by Kendrya Vidhyalaya, Pratap Nagar, Udaipur.
 - 10) Awareness Workshop on “Biotechnology: Development and Opportunities” Sponsored by State Department of Science and Technology, Govt. of Rajasthan and Organised at The Department of Biotechnology, Mohanlal Sukhadia University, Udaipur. 28th March 2005.
 - 11) UGC Refresher Course in Botany, Department of Botany, Mohanlal Sukhadia University (October, 2005).
 - 12) Workshop on “Biotechnology and Hands-on-Training on Application of Polymerase Chain Reaction and DNA Sequencing” organized by Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehra Dun, October 3-7, 2007.
 - 13) Organised a workshop on ‘Biotechnological Tools for Micropropagation and scale-up production of plants at Shiraz University, Shiraz, Iran for the participants of International Medicinal and Aromatic Plant Symposium and 2nd Iranian Phytochemistry Seminar (June 21-23, 2010).
 - 14) Resource Person, National Workshop on Advances in Biotechnology organized by Dolphin Institute, Dehradun (October 16-17, 2014).
 - 15) Resource Person in Refresher Course for University and College Lecturers in Life Sciences held at MDS University, Ajmer (2016).
 - 15) Conducted Workshop on Art and Science of Micropropagation of Medicinal and Aromatic Plants 5th International Phytocosmetics and Phytotherapy Congress, University of Patras, Patras, Greece.
 - 16) Resource Person, Faculty Development Programme, Aishwarya College, Udaipur (May 16-29, 2018).
 - 17) Resource Person, National Seminar on Innovative Approaches in Plant Tissue Culture organized by Atmiya University, Rajkot, Gujarat (2019).
 - 18) Resource Person for Research Methodology Workshop on “Development of Research Aptitude and Conceptualization of Research Ideas in Biological, Chemical and Interdisciplinary Sciences held at Mahila PG College, Jodhpur (2019).

M. BOOKS AND JOURNALS PUBLISHED/EDITED

1. **Edited** (with Drs. H.C. Arya, N. Sankhla, M.N. Tewari and N.S. Shekhawat) Advancing Frontiers Plant Sciences 1983 (Proceedings of the National Symposium on Advancing Frontiers of Plant Sciences held from Nov. 26-30, 1983 at the Department of Botany,

University of Jodhpur, Jodhpur) Botanical Society, University of Jodhpur, Jodhpur, Pages 305 + Xiii.

2. **Associate Editor, OIKOASSAY**, an International Journal of Environmental Sciences, published from Jodhpur (Currently from Bikaner).
3. **Edited** (with Prof. L.N. Vyas and R.K. Garg) Abstracts of Third National Environment Congress. Dec. 28-29, 1988 held at Sukhadia University, Udaipur.
4. **Edited** (with Prof. L.N. Vyas) Proceedings of National Seminar on Water Management Techniques for Minimising Environment Degradation, March 5-7, 1990. Department of Botany, Sukhadia University, Udaipur.
5. **Co-Author** (with Prof L.N. Vyas and Dr. R.K. Garg) **Practical Botany**, (1994) Himanshu Publications, Udaipur-Delhi.
6. **Co-Author** (with Prof L.N. Vyas and Dr. Indra Vyas) **A Text Book of Secondary Biology** (1994) Ratan Prakashan Mandir, Agra.
7. **Edited** (with Prof. L.N. Vyas and Dr. R.K. Garg) Contributions to the Environmental Sciences (1996) Himanshu Publications, Udaipur-Delhi.
8. **Member**, Advisory Board for "**Dictionary of Biotechnology**", edited by Prof. L.L. Somani, Agrotech Publishing Academy, Udaipur.
9. **Author** (with Dr. G. K. Kukda) "**Molecular Biology and Biotechnology**" (In Hindi) College Book House, Jaipur (2002).
10. **Author** (with Dr. G.K. Kukda) "**Cytogenetics , Plant Breeding and Evolution** " (In Hindi) Himanshu Publications, Udaipur (2003).
11. **Author** (with Dr S.G. K. Kukda and A. Singhvi) "**Practical Botany**" (A Bilingual Text) Apex Publishing House, Udaipur (2004). Revised and Enlarged Edition (2006).
12. **Author** (with Dr. G.K. Kukda) "**Plant Physiology and Biochemistry** "(In Hindi) Apex Publishing House, Udaipur. (2006).
13. **Edited** (with K.S. Thind and H.N. Gour) "**Annual Review of Plant Pathology**" Indian Society of Mycology and Plant Pathology, Udaipur (India) (2006).
14. **Author** (with Dr. G.K. Kukda) "**Molecular Biology and Biotechnology**" (In Hindi) Apex Publishing House, Udaipur (2006).
15. **Author** (with Drs. Khurshid Ahmed and G.K. Kukda) "**Genetics and Biotechnology**" (In Hindi) Apex Publishing House, Udaipur (2006).
16. **Author** (with N. Joshi) "**Molecular Biology and Biotechnology-A Practical Manual**" Apex Publishing House, Jaipur (2007).
17. **Author** (with Drs. A. Singhvi and K. Tak) "**Practical Botany**" A Bilingual Text) Apex Publishing House, Jaipur (2007).
18. **Author** (with Dr.G.K. Kukda) "**Pharmaceutical Biotechnology**" Apex Publishing House, Jaipur (2007).
19. **Co-Author** (with Prof. N.C. Aery and Dr.G.K. Kukda) "**Practical Botany-Angiosperm Taxonomy, Embryology, Anatomy, Economic & Ethanbotany, Cytogenetics, Plant**

- breeding and Biostatistics” (Bilingual) Apex Publishing House, Jaipur (2008).
20. **Author** “**Plant Cell, Tissue and Organ Culture**” Prentice Hall India, New Delhi (2013).
 21. **Member, Editorial Board**, “Proceedings of the International Symposium on Medicinal Plants and Natural Products”, International Society for Horticultural Science, Montreal, Qubec, Canada (June 17-19, 2013)
 21. **Co-Author** (with Anamika Singhvi and Gotam Kukda) “Fungi, Microbiology and Plant Pathology”. Apex Publishing House, Jaipur (2016).
 22. **Convener and Co-author** (with B.L. Chuadhary and Shivangi Swarnkar), Environmental Science (Class 12th), Board of Secondary Education, Ajmer, Rajasthan.

BOOKS UNDER PREPARATION

1. Handbooks of Agrobiodiversity: Conservation and use of Plant Genetic Resources, Vol. 12, Medicinal and Aromatic Plants to be published by **Springer, Germany**, Series Editor-A.K. Singh, Volume Editors-S.D. Purohit and Nativ Dudai).
2. Inventory of Medicinal and Aromatic Plants and Sister Species found and used in Traditional Indian Medicinal Systems to be published by **Brillion Publishing, New York, USA** (Authors-A.K. Singh, S.D. Purohit and J.P. Yadav).
3. Mycology, Microbiology and Plant Pathology (Text book) to be published by Himanshu Publications, New Delhi (Authors- S.D. Purohit and Gotam Kukda).
4. Algae, Lichens and Bryophytes (Text book) to be published by Apex Publishing House, Udaipur (Authors-S.D. Purohit, Gotam Kukda and D.R. Bohra).

N. DISTINCTIONS

1. Recipient of DST, Govt. of India, New Delhi sponsored Young Scientist Overseas Travel Grant (1981) to visit U.K.
2. Recipient of DST (SERC), Govt. of India, New Delhi Visiting Fellowship for a training in Molecular Biology at the Department of Plant Molecular Biology, Delhi University, South Campus, New Delhi (with Prof. Akhilesh K. Tyagi).
3. **International Excellence Award** (2020), conferred by International Phytoessence Consortium and International Society for Phytocosmetic Science, Boston, USA.
4. **Chairman**, Nativ Dudai International Award (2021) Committee (with Emanuela Apititi, USA; Mona Hetta, Egypt; Ufuk Coka, Turkey).

O. EXTENSION/INVITED LECTURES DELIVERED

1. **Tissue Culture Biotechnology: Tools and Techniques**. June, 1996. Teacher's Training College, Dabok, Udaipur.
2. **Tissue Culture Biotechnology: Progress, Potential and Problems**. June, 1996. Teacher's Training College, Dabok, Udaipur.

3. **Biotechnology of Micropropagation: Problems and Progress I & II.** August, 1998. Department of Botany, JN Vyas University, Jodhpur.
4. **Tissue culture: Its role in Sugarcane improvement.** December, 1998. Rajasthan College of Agriculture, Udaipur.
5. **Role of Tissue Culture Biotechnology in production of superior seed material of Sugarcane.** March, 1999. (Rajasthan College of Agriculture, Udaipur).
6. **Tools and Techniques of Biotechnology.** February, 1999. CASA, AFPRO-Unit VII, Bedla Road, Udaipur.
7. **Application of Biotechnology in Pasture Development.** February, 1999. CASA, AFPRO-Unit VII, Bedla Road, Udaipur.
8. **Propagation of Medicinal Plants through Tissue Culture.** March, 1999. Department of Botany, Gujarat University, Ahmedabad.
9. **Biotechnology of Micropropagation- Success and Bottlenecks.** November, 2001. Department of Biotechnology, Barkattullah University, Bhopal.
10. **Recent Advances in Tissue Culture Technology and Its Utilization in Crop Improvement.** June 2001 Summer School on Advances in Breeding Methodology to Attain Sustainable Higher Production in Coarse Cereals. Department of Plant Breeding and Genetics, Maharana Pratap University of Agriculture and Technology, Udaipur.
11. **Micropropagation of Plants through Somatic Embryogenesis & Somatic Hybridization Bypassing the Sex in Plants.** June, 2007. Kumaun University, Nainital.
12. **Mastering the Master Molecule-The Science of Transgenics.** July, 2007 Summer School on Advances in Entomopathogenic Nematodes, Microbes and Bioagents for Eco-Safe Management of Pests of Agricultural Importance. Department of Nematology, Rajasthan College of Agriculture, Udaipur.
13. **Increasing Commercialization of Agriculture.** September, 2007. Pal Pal Prasannata Channel.
14. **Green Technology (Biotechnology) for Sustainable Development-An Appraisal.** September, 2007. Rajasthan College of Agriculture, Udaipur.
15. **Mastering the Master Molecule-The Science of Transgenics.** September, 2007. J.N. Vyas College of Girls, Jodhpur.

16. **Innovative Approaches for Better and Cheaper Micropropagation Technologies.** October, 2007 Workshop on Biotechnology and Hands-on-Training on Application of Polymerase Chain Reaction and DNA Sequencing organized by Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun. (Lecture and Demonstration).
17. **Innovative Approaches for Better and Cheaper Micropropagation Technologies.** October, 2007. Department of Microbiology, Gurukul Kangri University, Haridwar.
18. **Regulation and Control of Somatic Embryogenesis in Plants Innovative Approaches for Better and Cheaper Micropropagation Technologies.** October, 2007. School of Biotechnology, Faculty of Science, Banaras Hindu University, Varanasi.
19. **Mastering the Master Molecule-The Science of Transgenics** October, 2007. School of Biotechnology, Faculty of Science, Banaras Hindu University, Varanasi.
20. **Professor J.J. Chinoy Memorial lecture on ‘Innovative Approaches for Better and Cheaper Micropropagation Technologies’** February, 2008. Gujarat University, Ahmedabad.
21. **Plenary Lecture on “Effect of CO₂ Enrichment on *In Vitro* Growth, Hardening and Acclimatization during Micropropagation of Some Tree Species of Aravallis in Rajasthan”** December, 2008. Bangalore (ISHS Symposium).
22. **Innovative Approaches for Better and Cheaper Micropropagation Technologies. Mastering the Master Molecule.** February, 2009. Aryabhata College of Technical Education, Ajmer.
23. **Why are we afraid of GM Food?** February, 2010. Vigyan Samiti, Udaipur
24. **Micropropagation of Some Medicinal Plants of Aravallis in Rajasthan- Cheaper and Better Options June, 2010,** International Medicinal and Aromatic Plant Symposium organized by Shiraz University and International Society for Horticultural Sciences, Shiraz, Iran
25. **Key-Note Address on Hundred Years of Cell Totipotency in Plants: From Conceptualization to Commercialization, November 2010,** Capacity Building Workshop in Biotechnology organized by N.V. Patel College of Pure and Applied Sciences, Vallabh Vidhyanagar, Anand, Gujarat.
26. Lectures on **Hundred Years of Cell Totipotency in Plants-From Conceptualization to Commercialization; The Science and Art of Micropropagation; Why we are afraid**

- of GM foods?** February, 2013 School of Biotechnology, Banaras Hindu University Varanasi.
27. **The Science and Art of Micropropagation; Why we are afraid of GM foods School of Biotechnology** September, 2013, Devi Ahilya University, Khandwa Road Campus INDORE-452001, Madhya Pradesh.
 28. **The art of scientific writing.** September 2013, B.N.P.G. College, Udaipur.
 29. **Career opportunities in Science.** December 2013, Sirohi.
 30. **Opportunities in Science.** December 2013, Kapasan.
 31. **Motivation and Career Guidance** Lecture at Government College, Sirohi on 1st December 2013.
 32. **Why are we afraid of GM Food?** February, 2014. Dept. of Biotechnology, Shree M. & N. Virani Science College, Rajkot, Gujarat, India.
 33. **Extension Lecture** at the Department of Botany, IIS University, Mansarovar, Jaipur (19th February 2014).
 34. **Key Note Lecture** in a National Seminar on “Emerging Trends in Biological Sciences” held at Shree M. & N. Virani Science College, Yogi Dham Gurukul, Rajkot (Gujarat) on 16th February 2014.
 35. **Career Guidance** Lecture at RNT College, Kapasan (September 23, 2014).
 36. **Special Invited Lecture in a National Workshop on Advance in Biotechnology and Its Application in Conservation Biology** organized by Dolphin Institute, Dehradun (October 16-17, 2014).
 37. **Extension Lectures** at Graphic Era University, Dehradun (October 17, 2014).
 38. **Special invited lecture in a National Seminar on Environment** at Maharaja Ganga Singh University, Bikaner (February 2015).
 39. **Motivation and Career Guidance Lecture** at University of Kota, Kota 19th October 2015.
 40. **Delivered motivational lecture “Career Opportunities in Biosciences” at MMPS, Udaipur** (September, 2016).
 41. **Delivered Motivation and Career Guidance Lecture at Aishwarya College, Udaipur** (September, 2016).

42. **Delivered invited lecture in National Symposium on Agriculture and Environment held at P.G. Mahila Mahavidyalaya, Jodhpur (18-19 November, 2016).**
43. **Delivered Key Note Address on National Science Day at Gujarat Vidyapith, Sadra Campus, Gujarat. February 28, 2017.**
44. **Delivered Science Motivation Lecture at Gujarat Vidyapith, Ahmedabad for school students January 28, 2017.**
45. **Delivered invited lecture at National Conference on Environment Sciences and Technology held at Maharaja Ganga Singh University, Udaipur (March 8-9, 2017).**
46. **Delivered Lecture at Lahoo Memorial College of Science and Technology, Jodhpur on “From PPLO to Phytoplasma-The Jokers of Biological Parks” January 21, 2019.**
47. **Delivered Key Note Lecture in a National Seminar on “Innovative Approaches in Plant Tissue Culture” organized by Atmiya University, Rajkot, Gujarat (February 21-22, 2019)**
48. **Delivered Invited Lecture on “Mastering the Master Molecule-The Science of Transgenics” at G.D. Memorial Post Graduate College at Jodhpur. September 25, 2019.**
49. **Delivered Invited Lecture on “From PPLO to Phytoplasma- The Jokers of Biological Park” at P.G. Mahila Mahavidyalaya, Jodhpur. September 27, 2019.**
50. **Delivered Key Note Lecture “Biotechnological Approaches for Conservation of Plants in Peril” in “Recent Trends in Environmental Sustainability and Green Practices”, at Government College, Bundi, November 15-16, 2019.**
51. **Delivered Lecture on ““From PPLO to Phytoplasma- The Jokers of Biological Park” at M. L.V. Government PG College, Bhilwara, Rajasthan (2019)**
52. **Delivered Webinar on “Mastering the Master Molecule-The Story of Recombinant Technology” Late Professor A. Bohra Memorial Lecture, at P.G. Mahila Mahavidyalaya, Jodhpur. May 2021**
53. **Delivered Webinar on “Science and Art of Micropropagation” at M.G. Science College, Ahmedabad 26th May, 2021.**

P. POPULAR ARTICLES PUBLISHED

1. **PHYLLODY: An Alarming Problem for *Sesamum* Growers, *Macco Agric. Digest* (India) 4: 5-7 (with H.C. Arya), 1980.**

2. JOJOBA WAX PLANT: An Unexploited Treasure. **Invention Intelligence** 16: 24-28 (1981) (with N.S. Shekhawat & H.C. Arya).
3. RAPID MULTIPLICATION OF ECONOMICALLY IMPORTANT PLANTS IN TEST TUBES (In Hindi), **Udhyanika** 3: 16-19 (1980) (with H.C. Arya and Y. Goyal).
4. Kavkon Ka Vichitra Sansar, Vigyan Ganga, Banaras Hindu University, Varanasi (2013, with Anamika Singhvi).
5. Bodhi Vriksha- Peepal (In Hindi), Lok Vigyan, Vigyan Samiti, Udaipur (2014, with Anamika Singhvi).
6. Audhiya Gunon Ki Khan- Meetha Neem (In Hindi), Lok Vigyan, Vigyan Samiti, Udaipur (2014, with Anamika Singhvi).
7. Astha Ka Prateek- Kalp Vriksha (In Hindi), Lok Vigyan, Vigyan Samiti, Udaipur (2015, with Anamika Singhvi).
8. Oxygen Piyaen- Lamba Jiyaen (In Hindi) Lok Vigyan, Vigyan Samiti, Udaipur (2015, with A.K. Goswami).
9. Bilva Patra (In Hindi), Lok Vigyan, Vigyan Samiti, Udaipur (2016, with Vijayta Purohit).
10. Kushagrata Mein Jyotishmati ka Jaadu (In Hindi), Lok Vigyan, Vigyan Samiti, Udaipur (2017, with Rakhi Nagori and Nikita Goswami).
11. Bizarre Role of Salicylic Acid in Plants, Everyman Science, Indian Science Congress Association, Kolkata Vol. LI (4) Oct.-Nov. 2016 Pages 241-246. (With Rakhi Nagori and Poonam Sharma)

Q. BOOKS REVIEWED

1. Noise Pollution: Its Scientific and Legal Perspective By: Satish Shastri and Manjoo Bala Trivedi, Divyajyoti Prakashan, Jodhpur, 188 pp Oikoassay 1989 6(1): 44.
2. Social Change and Education: Present and Future By: M.R. Paliwal, Uppal Publishing House, New Delhi Page x + 357. Rajasthan Journal of Public Services 1989, 1: 81-

R. REVIEWER FOR THE JOURNALS

1. Current Science
2. Indian Journal of Biotechnology
3. Bionature
4. Oikoassay
5. Geobios
6. Natural Products Radiance
7. Scientia Agricola
8. Plant Cell, Tissue and Organ Culture
9. International Journal of Phytocosmetics and Natural Ingredients
10. Acta Horticulturae

S. COLLABORATIONS

1. Dr. N.S. Shekhawat, **Department of Botany, Jainarain Vyas University**, Jodhpur (for hardening and acclimatization of the tissue culture plants for large-scale production)
2. Dr. Nicholas Schramek, **Munich National University, Germany**. (For incorporation experiments to identify the biosynthetic pathways for production of active principles in *Boswellia serrata* and *Chlorophytum borivilianum*).
3. Dr. (Mrs.) M. Rajani, **PERD Centre, Ahmedabad**. (For phytochemical profiling of *Celastrus paniculatus* and *Chlorophytum borivilianum*).
4. Professor Akhilesh Tyagi, **Department of Plant Molecular Biology, Delhi University South Campus**, New Delhi. (For molecular analysis and DNA fingerprinting).
5. Dr. Bikram Singh. Division of **Natural Products Institute of Himalayan Bioresource Technology, Palampur** for phytochemical analysis of *Chlorophytum borivilianum* (under DST, New Delhi sponsored research project).
6. Professor S. Ramarao, **Department of Biotechnology, North-Eastern Hill University, Shillong (Meghalaya)** (For cytological analysis).

T. RESEARCH PROJECTS: (Completed)

S. No.	Title of Research Project	Funding Agency	Project Cost (Rs. in Lacs)
1.	Studies on Phenolics and Related Enzymes of Maize infected with <i>Helminthosporium maydis</i>	U.G.C. (1988-90)	0.14
2.	<i>In vivo</i> and <i>In vitro</i> studies on Downy Mildew of Maize caused by <i>Peronosclerospora sorghi</i>	U.G.C. (1990-93)	1.0
3.	Development of Tissue Culture Biotechnology for Multiplication of Some Tree Species of Aravallis in Rajasthan	DBT New Delhi (1991-96)	25.0
4.	Field Evaluation of Some Tree Species of Aravallis Regenerated Through Tissue Culture Biotechnology	State D.S.T. Rajasthan, Jaipur (1993-96)	3.0
5.	Development and Application of <i>in vitro</i> methods for mass propagation of 'Safed Musli' (<i>Chlorophytum borivilianum</i>)	ICFRE (1997-2000)	5.0
6.	Scaling-up Production, Hardening and Field Trials of Some Micropropagated Tree Species of Aravallis in Rajasthan	DBT (1997-2000)	8.0
7.	Studies on <i>in vitro</i> Differentiation, Multiplication and Evaluation of Some Fruit Tree species of Aravallis in Rajasthan.	CSIR (1993-96)	2.0
8.	Somatic embryogenesis and plantlet regeneration in <i>Feronia limonia</i>	DST (1997-99)	4.0

S. No.	Title of Research Project	Funding Agency	Project Cost (Rs. in Lacs)
9.	Scaling up production, hardening and field trials of two micropropagated tree species	State DST (1999-2002)	5.0
10.	Application of Biotechnological Methods for Scaling-up Production of a Rare Medicinal Herb 'Safed Musli' <i>Chlorophytum borivilianum</i>	DBT 2001-2004	18.0
11.	Programme Support for Regeneration of Economically Important Plants of Rajasthan	DBT 2001-2005	9.0
12.	Morpho-Physiological and Biochemical Studies on Some Micropropagated Plant Species as Influenced by Liquid Culture System and Culture Vessel Environment	U.G.C. 2008-2011	11.98
13.	Molecular and Phytochemical Characterization of 'Safed Musli' (<i>Chlorophytum borivilianum</i> Sant. et. Fernand.) Germplasm	D.S.T. 2009-11	35.00
14.	Assessment of Natural Diversity in <i>Annona squamosa</i> using Molecular Markers	DST 2010-2012	23.00

U. LIST OF PUBLICATIONS

1. **Purohit, S.D.**, Ramawat, K.G. and Arya, H.C., 1978. Light microscopic detection of Mycoplasma-like organisms (MLO) in *Sesamum* phyllody. **Curr. Sci.** 47:866-867.
2. **Purohit, S.D.**, Ramawat, K.G., Shekhawat, N.S. and Arya, H.C., 1978. Note on effect of witches' broom infection on *Tephrosia purpurea* Pers. Leaves. **Legume Research** 2: 49-50.
3. **Purohit, S.D.**, Shekhawat, N.S., Ramawat, K.G. and Arya, H.C., 1979. Role of some oxidative enzyme and metabolites in *Sesamum* phyllody. **Indian J. Exp. Biol.** 17: 714-716.
4. **Purohit, S.D.**, Ramawat, K.G. and Arya, H.C., 1979. Phenolics, peroxidase and phenolase as related to gall formation in arid zone plants. **Curr. Sci.** 48: 714-716.
5. **Purohit, S.D.**, Ramawat, K.G. and Arya, H.C., 1979. Polyphenols and some oxidative enzymes in rust infected leaves of *Cyperus rotundus*. **Indian Phytopath.** 32: 255-259.
6. Ramawat, K.G., **Purohit, S.D.** and Arya, H.C., 1979. Altered state of oxidizing enzymes and phenolics of *Cordia* galls. **Trans. Isdt and Ucds (India)** 4: 38-41.
7. **Purohit, S.D.**, Shekhawat, N.S., Tandon, P. and Arya, H.C., 1980. Hormonal profiles in some insect and mite induced plant galls. **Proc. Indian Nat. Sci. Acad.** B46 (6): 882-900.
8. **Purohit, S.D.**, Ramawat, K.G. and Arya, H.C., 1980. Metabolic characteristics at enzymatic levels of *Achyranthes* leaves infected with white rust. **Indian J. Exp. Biol.** 18: 98-99.

9. Ramawat, K.G., **Purohit, S.D.** and Arya, H.C., 1980. Phenolics and oxidative enzymes in normal and gall tissues of *Giesekia*. **Sci. and Cult.** 46: 11-12.
10. **Purohit, S.D.**, Purohit, S., Shekhawat, N.S. and Arya, H.C., 1980. Some biochemical changes induced by *Curvularia prasadii* in *Sesamum indicum* leaves. **Comp. Physiol. Ecol.** 5: 238-241.
11. **Purohit, S.D.**, Shekhawat, N.S. and Arya, H.C., 1980. Hyperauxiny as related to *Sesamum* phyllody induced by mycoplasma like organisms (MLO). **Indian J. Exp. Biol.** 18: 1338-1340.
12. **Purohit, S.D.**, Shekhawat, N.S., Kant, U. and Arya, H.C., 1980. *In vitro* studies on MLO infected *Sesamum* and *Sclerospora graminicola* infected pearl-millet. Proceedings of Symposium on Plant Tissue Culture, Genetic manipulation and Somatic Hybridization of Plant Cells, BARC, Trombay, Bombay (India) Feb. 27-29, pp. 163-168.
13. Arya, H.C., Shekhawat, N.S. and **Purohit, S.D.**, 1981. Accumulation of aromatic compounds as related to abnormal growth in plants. **J. Indian Bot. Soc.** 60: 247-51.
14. Shekhawat, N.S., **Purohit, S.D.** and Arya, H.C., 1983. Relative role of oospores and infected seed in green-ear disease incidence. **Indian J. Mycology and Plant Pathology.** 13: 17-20.
15. **Purohit, S.D.**, Shekhawat, N.S. and Arya, H.C., 1983. Ascorbic acid metabolism in phyllody of Sesame induced by mycoplasma-like organism. **International Journal of Tropical Plant Diseases** 1: 107-110.
16. **Purohit, S.D.**, Purohit, S., Rathore, T.S., Goyal, Y., Vaishnava, G.R., Surana, N.M. and Arya, H.C., 1983. Clonal propagation of some trees species through tissue culture. **Proc. Natl. Symp. Adv. Front. Pl. Sci.** pp. 129-130.
17. Shekhawat, N.S., Galston, A.W., Arya, I.D., **Purohit, S.D.** and Arya, H.C., 1983. Isolation, culture and regeneration of food legume protoplasts. **Proc. Natl. Symp. Adv. Front. Pl. Sci.** pp. 159-160.
18. Dhir, S.K., **Purohit, S.D.**, Shekhawat, N.S., Purohit, S. and Arya, H.C., 1983. Energy source plant: *Calotropis procera*. **Proc. Natl. Symp. Adv. Front. Pl. Sci.** 147-148.
19. Dhir, S.K., Shekhawat, N.S., **Purohit, S.D.** and Arya, H.C., 1984. Development of laticifer cells in callus cultures of *Calotropis procera* (Ait) R. Br. **Plant Cell Reports** 3: 206-209.
20. Shekhawat, N.S., **Purohit, S.D.** and Arya, H.C., 1984. Changes in isoenzymes of peroxidase in green-ear of pearl-millet. **Curr. Sci.** 53: 1157-1158.
21. Arya, H.C., Shekhawat, N.S., and **Purohit, S.D.**, 1990. Phytopathogen interaction, physiology and control aspects *in vivo* and *In vitro* state. **Proc. Natl. Symp. Adv. Pl. Sci.: Current Status & Emerging Challenges** pp 441-450.
22. **Purohit, S.D.** and Arya, H.C., 1990. Efficacy of certain antibiotics against *Sesamum* Phyllody caused by mycoplasma-like organisms (MLO). **Oikoassay** 7: 1-4.
23. **Purohit, S.D.**, 1990. Polyamine Metabolism in Plants. **Proc. Natl. Symp. Adv. Plant Sci.: Current Status and Emerging Challenges** pp. 181-191.

24. **Purohit, S.D.**, Ramawat, K.G. and Arya, H.C., 1990. IAA-oxidase, Peroxidase, Polyphenol oxidase and Phenolics in *Ipomoea pentaphylla* gall tissues. **Oikoassay** 7: 29-32.
25. **Purohit, S.D.** and Sukhwai, R., 1991. Induction and Maintenance of Embryogenic callus cultures of *Apluda mutica* L. **Acta Ecologica** 13: 137-140.
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V. CONTRIBUTIONS IN UNIVERSITY CORPORATE LIFE

Academic Activities

- Has acted as Member of various committees for Convocation, Time-Table of PG classes in Biotechnology and Botany and for UG at College level
- Has developed a model document for running of self- finance courses
- Has been a member of various Committee of Courses in the Faculty of Science
- Member of Faculty of Science

Admissions

- Has participated in admission process of B.Sc., M.Sc. (Botany, Biotechnology and Environmental Sciences), BCA
- Developed OMR based computer evaluation system for Pre-PG tests in all science subjects and in B.Sc. Biotechnology

Examinations and Reforms

- Has participated in conduct of all University Examinations
- Developed a code book for various courses offered by the University
- Redesigned examination forms and answer books
- Revaluation work
- Design and introduction of holograms on degrees
- Member, Various Committees for making of Panel of examiners

Scientific Temper

- Has celebrated National Science Day for several years by organizing debate, essay and quiz competition
- Organized debate competitions on Environmental issues

Students' Activities

- Has participated in Students Elections both at University and College levels
- Supervised co-curricular activities
- Acted as Member of various Committees including Gold Medal award and Freeships
- Committees for cycle stand and canteen

Campus Development

- Has been involved in planning and execution of activities related to Campus development both at faculty and University levels. Particularly the conceptual planning, design and implementation of project of Biotech/ Environment Science building have been done
- Renovation and furnishing of various offices and buildings including Seminar halls

Community Service and Student Outreach Activities

- Has acted as Coordinator NSS, and organized activities of community service
- Has been providing support to students undergoing teachers' training
- Has participated in removal of congress grass
- Has been providing training to students drawn from different sections and part of the country
- Has acted as resource person for training in Plant Biotechnology
- Acted as Member of Jury in State level debate and elocution contests, judgement in zonal science exhibitions etc
- Has delivered several lectures to Farm Scientists, Agriculture Graduates, Farm Workers, Agriculture Managers and Farmers

Teachers Welfare

- Has been a Member of House allotment committee
- Has been publishing Directory of Teachers providing Residential addresses and Telephone Numbers for last 10 Years
- Has worked as Member, Executive Council of Sukhadia University Teachers' Association
- Organized Sukahdia Memorial Lectures

Welfare of Non-teaching Staff

- Has provided assistance for conduct of elections
- Has acted as Member of Enquiry Committees for redressal of grievances

State Level Examinations

- Has participated in conduct of various state and National level examinations such as PET, PTET, PCPMT, RMAT and UGC-NET

Modernisation of Infrastructure

- Working as In-Charge of 630 KVA Electrical Substation for last 15 years
- In-Charge LCD projections
- Creation of basic infrastructure related to communication, computerization and SMART card introduction
- Use of Internet and Inlibnet facilities

Interaction with Apex Bodies at National Level

- Has been invited for scientific interactions by DBT and Biotech Consortium India Ltd. on various issues
- Has acted as Coordinator for UGC IX and X plan appraisal and visit of high power committees
- Assisted in preparation of document for presentation before NAAC committee

Interaction with Apex Bodies at International Level

- Has interacted with high power delegation from Ethiopia for scientific collaboration. Also participated in interactions with USEFI

Interaction with Apex Bodies at State Level

- Has acted as Member, Task Force for Biotechnology Policy formulation
- Nominated Member, of State Planning Department for policy formulation on Agricultural education and Research prioritization

Academia Industry Interaction

- Has acted as Member of Task Force for interaction with Udaipur Chamber of Commerce and Industry
- Interacted with Aranya Micropropagation, Star Agrigenetics, Gyan Bharti Trust and Lupin Laboratories for Technology development and commercialization of Biotechnologies

Improvement in R&D Activities

- Has been a Member of the committee constituted for providing guidelines for implementation of Research projects in this university

Projection of University Activities

- Has acted as Member of Editorial Board for publication of 'Compendium Academia'
- Member of Editorial Board for News Letter -DARPAN

Welfare activities of SC-ST Students

- Has acted as Member of various committees involved in welfare of SC-ST students

Purchases and Auctions

- Has been involved in almost every Committee of the University/ College/ Department meant for purchases and auctions
- Has acted as Covenor, of printing committee of the university for several years

Interaction with Other Institutions

- Has been providing guidance to other institutions engaged in teaching of biotechnology courses
- Acted as Member, Placement Committee for PTET
- Member, Project Monitoring Committee for J. N. Vyas University, Jodhpur

Inter-Departmental Cooperation

- Has acted as Member of various purchase committees
- Member of organizing committees for conferences and symposia

Others

- Has been involved in physical verification work of various stores, libraries
- Developed several documents for compilation of information for presentation before high level committees visiting university.