

## CURRICULUM VITAE

**Dr. KAMAL PRASAD**

**M.Sc., Ph.D., F.B.S.**

**Director- Center for Advanced Agriculture Research**

**Xenesis Institute, Absolute Bioscience,**

**Plot No. 68, 5<sup>th</sup> Floor, Sector-44**

**Gurugram, Haryana, India**

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**<https://orcid.org/0000-0002-9868-7941>**

**<https://orcid.org/0000-0003-3038-2292>**

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### **Major Fields of Working:**

New agricultural technical innovations, Plant Nutrition's, Biofertilizers, Biofungicides, Bioinsecticides production & Formulations, Nanoformulation, Biostimulants, Multimicronutrients, Peptide/Secondary Metabolites/Enzyme base Agri formulation, Botanicals and Seeds. Implementing field trials, Community-based technology demonstrations, Agriculture Management, Site-specific Management, Precision Ag arming, and water management, Soil and Plant Microbes Interaction, Soil fertility, Nutrient cycling, Biomass management, Agriculture promotion and Formulation technology, Farmers training, Capacity building, Motivation.

### **Professional Qualifications:**

**Doctor of Philosophy in Life Science (Agriculture Microbiology)**

### **Research Experiences: 33 Years**

#### **Position:**

- a. Presently working as **Director R&D** from **1 July 2021** at Xenesis Institute, Center for Advance Agriculture Research, Absolute Bioscience, #68, 5<sup>th</sup> Floor, Sector 44, Gurugram, Delhi NCR, Haryana, India.
- b. Worked **Agri Advisor R&D** from **21 May 2018 to 30 June 2021** at Warkem Biotech Pvt. Ltd., A- 516, Swastik Disha Business Park, LBS Marg, Mumbai-400086, Maharashtra (India)
- c. Worked as **Research Scientist R&D Mycorrhiza Production** from **09 December 2014 to 15 May 2018** at Symbiotic Sciences Pvt. Ltd., 575, Pace City-II, Sector-37, Gurgaon-122001, Haryana (India)
- d. Worked as a **Fellow** from **2 May 2011 to 08 December 2014** at CMR, Biotechnology and Management of Bioresources Division, **The Energy and Resources Institute**, Darbari Seth Block, IHC, Lodhi Road, New Delhi-110003
- e. Worked as **Associate Fellow** from **04 June 2008 to 01 May 2011** at CMR, Biotechnology and Management of Bioresources Division, **The Energy and Resources Institute**, Darbari Seth Block, IHC, Lodhi Road, New Delhi-110003.
- f. Worked as **Research Associate** from **08 June 2006 to 03 June, 008** at Centre for Mycorrhizal Research (CMR), Biotechnology and Management of Bioresources Division,

**The Energy and Resources Institute** Darbari Seth Block, IHC, Lodhi Road, New Delhi-110003, India

- g. Worked as **Research Associate** (PDF) from **20 March, 2002** to **28 March 2006** at the Department of Botany, Maharishi Dayanand Saraswati University, Ajmer (Rajasthan) in **European Commission Brussels** sponsored Multinational (involving **Germany, Spain, India, and Nepal**) INCO-DEV Research Project ICA4CT-10057
- h. Worked as **Research Associate** (PDF) from **February 1, 1998- June 30, 2001**, at the Dept. of PG Studies and Research in Biological Science (**DBT, Govt. of India**), Rani Durgavati University, Jabalpur, Madhya Pradesh.
- i. Worked as a **Research Associate** (PDF) from **June 3, 1996- January 31, 1998**, at the Department of Post Graduate Studies and Research in Biological Science (**DBT, Govt. of India**), Rani Durgavati University, Jabalpur, Madhya Pradesh.
- j. Worked as **Post-Doctoral Fellow** from **April 1995-May 31, 1996**, at the University Department of Botany, B. R. Ambedkar Bihar University, Muzaffarpur, Bihar
- k. Worked as **Scientist 'B'** from **September 28, 1993- March 31, 1995**, at Biomass Research Center (**Ministry of Non -Conventional Energy source, Govt. of India**) University Department of Botany, B. R. Ambedkar Bihar University, Muzaffarpur, Bihar
- l. Worked as a **Research Fellow** from **August 8, 1990 -September 27, 1993**, at the University Department of Botany, B. R. Ambedkar Bihar University, Muzaffarpur in the field of **Mycorrhizal Biotechnology** under the supervision of Prof. R. S. Bilgrami, Muzaffarpur, India

#### **Teaching Experiences:**

- Assisted in M.Sc. Botany teaching program and took Practical classes from **1993-1995** in the Department of Botany, B. R. Ambedkar Bihar University, Muzaffarpur (Bihar)
- Assisted in M.Sc. Botany teaching program and took Practical classes from **1996-2001** in the Department of Biological Science, Rani Durgavati University, Jabalpur-482001(M.P.)
- Assisted in M.Sc. Botany teaching program and took Practical classes in the four sessions **2002-2003, 2003-2004, 2004-2005, 2005-2006** in the Department of Botany, M.D.S. University, Ajmer-305009, Rajasthan
- Worked as **Senior Scientific Officer** for the **Premedical Test of Rajasthan** during the session **2005-2006**. Premedical Test of Rajasthan conducted by Maharishi Dayanand Saraswati University, Ajmer, Rajasthan
- Worked on **CBSC** Centre for Examination evaluation of North Zone at Ajmer during **2004-2005, 2005-2006** CBSC examination evaluation.
- Assisted in **University examination duties** of all university examinations of the Department of Biological Science, Rani Durgavati University, Jabalpur-482001 (M.P.) and Maharishi Dayanand Saraswati University, Ajmer, Rajasthan during **1996-2001** and **2002-2006** respectively.

## Work Profile:

- **Inera Crop Science Powder by Xenesis Institute, Center for Advance Agriculture Research, Absolute:**
- **Establishment:** Established of Ultra-Modern manufacturing unit, Moderns R&D Labs

### **Ag Input Formulation for Commercialization:**

Phyro MG- Consortium Mycorrhiza Biofertilizer in Granules.

Phyro P- Consortium Mycorrhiza Biofertilizer in SP

Phyro Baco G- Consortium NPK Biofertilizer in Granules

Phyro Baco L- Consortium NPK Biofertilizer in Liquid

LeiroTM HymiZen Utra G- Biostimulant in Granules

LeiroTM HymiZen Utra P- Biostimulant in SP

LeiroTM PhytoBlend-Biostilulant in SP

Multi Micronutrient- SP

Multi Micronutrient-Liquid

EnCap-PM- Consortium Biofungicides-P

EnCap-W- Consortium Biofungicides-P

EnCap-CP- Consortium Bioinsecticides-P

EnCap-BPH- Consortium Biopesticide-P

EnCap-GT- Consortium Biopesticide-P

EnCap-SP- Consortium Biopesticide-P

Hi-Tox-BTK (Multi- Serological Toxin)- Leps-WP

EnCap -MS-BB-Tox+ (Beauveria bassiana)-WP

- **NCBI Gene Banks:** Molecular Identification Using 16s rDNA Base Molecular Technique (Sequenced by: Eurofins Genomic India Pvt Ltd): 1000 New Isolated bank at Labs.

- **Warkem Biotech Pvt. Ltd.:** Established of Ultra-Modern manufacturing unit, In vivo mycorrhiza production unit, Moderns R&D Labs.

**Bio Agricultural Formulation** including Biofertilizers, Biopesticides, Bioinsecticides, Biostimulants, Nano fertilizers and micronutrients in AS/SC/WSP/WP/Granules formulations.

**Advanced Biofertilizers:** Mycorrhiza, Azotobacter, PSB, ZSB, KSB, Azospirillum, Rhizobium, Acetobacter, NPK consortium.

**Advanced Biopesticides:** *Trichoderma, Pseudomonas fluoresces, Bacillus subtilis*, etc.

**Advanced Bioinsecticides:** *Bacillus thuringiensis kurstaki, Beauveria bassiana, verticillium lecanii, Lecanicillium lecanii, Metarhizium anisopliae, Paecilomyces fumosoroseus, Metarhizium, Paecilomyces, Pochonia chlamydosporia, Bacillus firmus* etc.

**Botanic formulation:** Botanical fungicide & Insecticide for Caterpillar and sucking pest, Neem base formulation.

➤ **International Scientific Cooperation Project-Soybean BNF and Mycorrhization for Improved Production in South Asia:**

Symbiotic nitrogen fixation and the AM fungi supply the legumes with nitrogen and improve nitrogen and phosphate mobilization from the soil and thereby reducing the costs of nitrogen and phosphate fertilizers to a large extent. The main objectives of the project were to isolate and characterize new strains of both types of microsymbionts with adaptation to the regional plant cultivars and regional soil conditions and to make them available for inoculum production (biological fertilization). The major goals were achieved: A. More than 100 new rhizobial strains for the nitrogen-fixing symbioses with soybeans have been isolated and characterized by more than 460 genes sequenced to identify 6 species of *Bradyrhizobium* and *Rhizobium*. The strains are available in three culture collections for inoculum production. B. A germ plasma bank of molecular characterized AMF isolated from South Asian soils was established with 6 species of *Glomus* identified. C. In-field trials production of soybeans in India and Nepal has been improved by inoculation and other agro-techniques. D. The scientific results of the project have been published in more than 8 refereed journal publications and in more than 10 book articles.

➤ **Project Green - Growing Renewable Energy for Energy Security:**

Macro-level establishment of variability in soil types in India, Establishment of nurseries for growing suitable planting material, Contractual agreements with identified village panchayats/farmers; Planting Jatropha plants (backward linkages), identifying an organization for establishing baseline socio-economic-environmental survey and undertaking periodic assessment, Tying up of loan/additional grant for the project, Assessing use potential and economics for bio-diesel and by-products, Identifying the routes to markets for bio-diesel and by-products (forward linkages), Sourcing technology for expelling units and trans-esterification units, Designing an institutional model for long term sustainability the of project, Setting up of seed collection centers, expelling unit, trans-esterification plant, Complete study of the commercial viability of the Jatropha derived bio-diesel in India. Training and capacity building for the ultimate transfer of technology and management to local farmers and entrepreneurs

➤ **Demonstration of Mechanism to carry out effective reclamation of the overburden sites of Mithapur (Gujarat), Vijayawada, (A.P.), Korba, (Chhattisgarh), Badarpur (Delhi):**

Applied Mycorrhiza-based reclamation technology for environmentally vulnerable sites. We have successfully established three major demonstrations of fly ash reclamation in fly ash overburden sites of Badarpur Thermal Power Station, Delhi, Korba Super Thermal Power Station, Chhattisgarh, and Vijayawada Thermal Power Station, Andhra Pradesh. Reclaimed Chlor alkali sludge dumps in Malara and mixed solid waste dump sites at Padli of Tata Chemicals, Gujarat, and also demonstrated the reclamation of sites laden with industrial effluents e.g. of paper and pulp, distillery, etc. Developed sustainable green cover on overburden dumps and provided training, capacity building and creating awareness programs for representatives of the institutes.

➤ **Biotechnological interventions to improve soil fertility and biological health towards high crop productivity and low input:**

Bringing awareness/training to multi-location farmers' field trials for reducing the consumption of chemical fertilizers and educating and encouraging the farmers to use biofertilizers to increase crop productivity in a sustainable manner and Precision water management

- **Field trials of different crops conducted on farmer's fields from various locations of India for quality yield production in a sustainable manner with different partners:**
  - ✚ Hissar (Haryana), Bhatinda, Mohali, Jalandhar (Punjab), Aligarh (Uttar Pradesh), Rajkot (Gujarat), Aurangabad (Maharashtra), Guntur (Andhra Pradesh), Salem and Perambalur (Tamil Nadu) with Monsanto India Limited, Mumbai, India (Crop: Corn, Cotton)
  - ✚ Indore, Khandwa (Madhya Pradesh), Jalna (Maharashtra), Gandhi agar (Gujarat), Ranga Reddy (Andhra Pradesh), Haveri (Karnataka) with Maharashtra Hybrid Seeds Co. Ltd, (Mahyco), Jalna, Maharashtra, India (Crop: Soybean, Cotton, Wheat, Gram)
  - ✚ Bhatinda (Punjab), Aurangabad (Maharashtra), Attur (Tamil Nadu), Bangalore (Karnataka) with Rasiseeds Pvt. Ltd, Attur, Tamil Nadu, India (Crop: Corn, Cotton)
  - ✚ Raichur (Karnataka) Sardargarh and Suratgarh (Rajasthan), with State Seed Cooperation of India (SFCI), New Delhi, India (Crop: Soybean, Cotton, Wheat, Gram, Oat, Corn, Sorghum etc).
  - ✚ Karad (Maharashtra) with Field Fresh Foods Pvt. Ltd, Delhi, (Crop: Sweet Corn and Baby Corn)
  - ✚ Ludhiana (Punjab) with Field Fresh Foods Pvt. Ltd, Delhi (Crop: Sweet Corn, Baby Corn, Vegetable and Medicinal plants)
  - ✚ Sabarkantha and Banaskantha (Gujarat) with McCain Food (P) LTD, Gujarat (Crop: Potato)
  - ✚ Pune (Maharashtra) with ITC Pvt. Ltd. New Delhi, India (Crop: Potato)
  - ✚ Ludhiana (Punjab) with Punjab Agriculture University, Ludhiana, Punjab, (Crop: Wheat, Corn and Cotton)
  - ✚ Sri Ganganagar (Rajasthan) with PepsiCo India Holdings Pvt. Ltd, Gurgaon, India, (Crop: Wheat, Barley, and Gram)
  - ✚ Krishna District (Andhra Pradesh) with KCP, Sugar & Industries Corporation Ltd. Vuyyuu (Crop: Sugarcane and Paddy)
  - ✚ Indore and Jabalpur (Madhya Pradesh) with NRC, Indore, and JNKVV, (Crop: Soybean, Corn, and Cotton)
  - ✚ Supi (Uttaranchal), Kota and Bundi (Rajasthan), Gwalior, Indore, and Jabalpur Faridabad (Haryana), Vijayawada, Vuyyuru, East Godavari district and West Godavari district (Andhra Pradesh) with Farmer's for a different project of Govt. of India, (Crop: Millet, Kidney bean, Black soybean, maize Soybean, Corn, and Cotton)
  - ✚ Faridabad (Haryana) on mycorrhiza seed coating field trials (Crop: Wheat, Maize, Barley Oat, Baby corn, Sweet corn, Berseem, Carrot, Potato, Onion, Garlic, Brinjal, Coriander, Faba bean, Gram, Pea, Lentil, Sorghum, Tomato etc.)
- Vertical Organic Farming through Soil-less cultivation established on Vardan Agrotech LLP, New Delhi.
- Presently working on "**Bio Agri Products: Biostimulant, Biofertilizers, Bioprotectant (Biofungicides and Bioinsecticides) Production and Formulation**" for worldwide application.
- **NCBI Gene Banks: Molecular Identification Using 16s rDNA Base Molecular Technique (Sequenced by: Eurofins Genomic India Pvt Ltd): 1000 Bio Isolate**

#### **Professional Qualifications:**

**Doctor of Philosophy in Life Science (Agriculture Microbiology)**

**Academic Qualifications:**

Doctor of Philosophy in Botany, Faculty of Life Science, 1993 (**Agriculture Microbiology**)  
B. R. Ambedkar Bihar University, Muzaffarpur, Bihar, India

**The topic of Ph. D. Thesis:**

**Studies on Ecological Factors Affecting Vesicular Arbuscular Mycorrhizal Infection in Sugarcane (Supervisor: Prof. R.S. Bilgrami)**

**Master of Science**, 1987; B. R. Ambedkar Bihar University, Muzaffarpur, Bihar, India, I class, 62.50%; Subject: Botany, Plant Pathology

**Bachelor of Science**, Botany (Hons.), 1982; Bihar University, Muzaffarpur, Bihar, India II class, 55.33%; Subjects: Botany, Zoology, and Chemistry

**Computer skills:**

- Diploma in Computer programming, 1994, I class, 67.70 %; ICSWD, Darbhanga.

**Specialization:** Agriculture Management, Implementing field trials, Community-based technology demonstrations, Seed production and storage, Seed priming, Microbial Technology (*In situ* and *In vitro* Mycorrhizae Production, Biostimulants, Biofertilizers, Biofungicides and Bioinsecticides production and Formulation, Bioremediation and Biofuel Production

**Abroad visit:**

Visited Ministry of Coordination of Environmental Affairs (MICOA), **Ministry of Environment, and Government of Mozambique**, Maputo, and Chubuto for **Reclamation of soil eroded land of Mozambique, South Africa** during 24<sup>th</sup> July 2010-4<sup>th</sup> August 2010.

Visited 7th Asian PGPR 2022 International Conference for sustainable Agriculture 23-26 August 2022, Auditorium Rashdan Baba, **University Putra, Lumpur, Malaysia**.

**Techniques Known:**

- All Laboratory techniques commonly used in microbiology and biotechnology.
- Isolation, purification, identification, biochemical characterization, and production of Biofertilizers, Biopesticides, Bioinsecticides and Biostimulants.
- Fermentation technology
- Bio-fuel nursery development, plantation, and Production technology
- Field trial evaluation, designing, management, cost-benefit, and statistical analysis of data
- Agriculture Products promotion and formulation technology
- Training, capacity building for the ultimate transfer of technology to rural farmers and management of local entrepreneurs

**Administrative professional experiences:** Organization and multi-tasking skills, working well both independently and as a contributing member of the team, consistently awarded additional responsibilities, with a proven record of achievement in meeting and exceeding employer

expectations. Responsible for R&D activity of research project, supervision, and training of the Institute staff. Implementing initiatives of new projects that enhance corporate performance.

**Expertise:** Staffing, Employee relations, Negotiating, Research problem solving, Management/Employee development, Performance training, Team building, Workshop facilitation.

**Scholarship awards:**

- Recipient of **Bihar Merit and Poverty Scholarship** during M.Sc. course 1985-1987
- Recipient of **International Best Researcher Award** for the Research and Excellence in Microbiology and Biotechnology by International Research Awards and Congress, 2023 on 7<sup>th</sup> May 2023.

**Honour:**

- Awarded **Fellow of the Indian Botanical Society** at the Annual Meeting held on 31<sup>st</sup> December 1997 for contribution in **VAM Biotechnology**.
- **Team award 2007** for **Cross-divisional/inter-organization teamwork** and outstanding contribution in the BP Project at **The Energy and Resources Institute**, Darbari Seth Block, IHC, Lodhi Road, New Delhi-110003.

**Research Mentored:**

**Supervised/ supervising following master's Dissertations /Ph.D.:**

S. No	Name of Student	Thesis title	Degree	Awarded
1.	D. Harwani, M. D. S. University, Ajmer, (Rajasthan)	Biodiversity and efficiency of Brady-Rhizobia strains and arbuscular mycorrhizal fungi of soybean cultivars grown in Haroti region of Rajasthan	Ph.D., Microbiology	2006-07
2.	M. K. Meghavansi, M. D.S. University, Ajmer, (Rajasthan)	Isolation, identification, and effectiveness of rhizobial strains and arbuscular mycorrhizal (AM) fungi of soybean cultivars are grown in Bundi and Udaipur, Rajasthan	Ph. D., Botany	2006-07
3.	Sangeeta Dhaker, M. D.S. University, Ajmer, (Rajasthan)	Isolation, characterization and effectiveness of rhizobia strains of soybean cultivars are grown in the Kota region of Rajasthan	Ph. D., Botany	2008-09
4	Sonia Agrawal, Banasthali University, Banasthali Vidyapith, Banasthali-304022 (Rajasthan)	Assessment of impact of mycorrhiza Inoculated in <i>Jatropha curcas</i> and plant species for wasteland reclamation	B. Teach, Biotechnology	2011-12
5	K. K. Sharma, University of Rajasthan, Jaipur (Rajasthan)	To study of soil quality at TCL site through reclamation technology based on mycorrhiza organ fertilizer and impact of <i>Jatropha</i> on soil	M.Sc. Biotechnology	2011-12

### Research project (PI/Co-PI/Member/Consultancies)

S.No.	Title of the Research Project	Agency	Period	Grant (Rs. lakh)
1	Identification, Characterization, Selection and Response of Efficient Strains of Rhizobia and Mycorrhizae of Fuel wood Species	MNCES, Govt. India, New Delhi	28.09.1993-31.03. 1995	50.00 lakh
2	Protein Enrichment of Wheat Grain Flour by the Culture of Amitotic Yeasts	DBT, Govt. of India, New Delhi	03.06.1996-31.01.1998	18.00 lakh
3	Screening and Identification of Edible Tribal Mushroom Species of Madhya Pradesh: Development of Database and Protocols for their Large-Scale Production	DBT, Govt. of India, New Delhi	01.02.1998-30.06 2001	25.00 lakh
4	Soybean BNF and Mycorrhization for Improved Production in South Asia	European Commission, Brussels	20.03.2002-28.03. 2006	60.00 lakh
5	Project Green - Growing Renewable Energy for Energy Security	B. P.	8.06.2006-15.8.2012	48.0 cores
6	Assessment of reclamation ash ponds	DST, Govt. of India.	2009 - 2013	60.00 lakh
6	Assessment of <i>Jatropha/ Pongamia</i> plantation undertaken for Bio diesel production in India	DLR-MRD Government of India,	2011-2012	36.00 lakh
8	Reclamation of the Overburden sites – TCL, Padli Greens	TCL, Mithapur	2008-2012	1.60 cores
9	Maintenance of plantation at Padli Green cap-TCL	TCL, Mithapur	01.04.2012-31.03.2013	50.00 lakh
10	Biotechnological interventions to improve soil fertility and biological health towards high crop productivity and low input-Punjab & Haryana	DBT, Govt. of India,	2010-2014	2.24 cores
11	Maintenance of plantation at Malara Green cap	TCL, Mithapur	1.09.2010-01.08.2013	54.00 lakh
12	Maintenance of plantation at Padli Green cap-TCL	TCL, Mithapur	01.04.2013-31.03.2014	50.00 lakh
13	Maintenance of plantation at Padli Green cap-TCL	TCL, Mithapur	1.04.2014-08.12.2014	50.00 lakh

### **Personnel Profile:**

FATHER'S NAME	:	Late Shri Banti Lal Prasad
DATE OF BIRTH AND PLACE	:	26 <sup>th</sup> January 1962, Bhagwanpur, Bihar
PERMANENT ADDRESS	:	Village-Bhagwanpur, P.O. - YogiwanaBazar, V.O. - Mogholia Estate, Dist.-Sitamarhi- 843322
CORRESPONDENCE ADDRESS	:	: Flat No. 407, Vidya Enclave, GH-11, Sector-56 Gurugram-122011, Haryana, India
NATIONALITY	:	Indian
DOMICILE STATE	:	Bihar
RELIGION	:	Hindu
MARITAL STATUS	:	Married
SEX	:	Male
LANGUAGES KNOWN	:	Hindi and English
PASSPORT NUMBER	:	<b>J 9211858</b>

### **International and National Conference/Symposium attended, and Paper presented:**

1. Third National Conference of "**Mycorrhizae: Biofertilizers for the Future**" held between March 13-15, 1995, at The Energy and Resources Institute, New Delhi.
2. International Conference on "**Current Status and Challenges in Medical and Veterinary Mycology Research**" held on February 26-28, 1996, at Department of Biological Science, R.D. University, Jabalpur.
3. 19th Conference of the **Indian Botanical Society and National Seminar** on "**Biotechnology: New Trends and Prospects**" held on December 26-28, 1996, at the Unit in Microbiology, Department of Botany, Guru Kula Kangri University, Hardwar.
4. 49<sup>th</sup> Annual Meeting of the **Indian Phytopathological Society and National Symposium** on "**Emerging Issues in Plant Pathology and The Biology of Plant Microbe Interactions**" held on February 15-17, 1997, at Department of Biological Science, R. D. University, Jabalpur.
5. The Second meeting of the Task Force on "**Plant Biotechnology**" was held on 14th January 1998 at the Department of Biotechnology, Govt. of India, New Delhi.
6. International Symposium on "**Microbial Biotechnology for Sustainable Development and Productivity**" held on November 14-16, 1998, at Department of Biological Science, R. D. University Jabalpur.
7. 86<sup>th</sup> Session of the "**Indian Science Congress 1999**" held on January 3-7, 1999, at Anna University, Chennai.
8. Fourth National Conference on "**Mycorrhiza**" held on March 5-7, 1999, at the Institute of Microbiology and Biotechnology, Barkatullah University, Bhopal.
9. National Symposium on "**Biotechnology of Plant Protection-- Application and Technology Development**" held on February 25-27, 2000, at The Center of Advance Study in Botany, Banaras Hindu University, Varanasi. **Deliver Special Young Scientist Lecture.**
10. National Seminar on "**Biodiversity Conservation Management and Utilization for Sustainable Development**" held on April 19-20, 2000 at Department of Agricultural Botany and Crop Physiology, Jawaharlal Lal Nehru Krishi Vishwavidyalaya, Jabalpur.

11. National Seminar on “**Biodiversity Conservation Management with Special Emphasis on Biosphere Reserves** ” held on November 24-27, 2000, at Environment Planning and Coordination Organization, Bhopal.
12. National Seminar on “**Environmental Pollution: The Challenges in New Millennium** ” held on September 29-30, 2001, at Alameda College, Biharsharif.
13. 89th Session of the “**Indian Science Congress 2002** ” held on January 3-7, 2002, at the University of Lucknow, Lucknow.
14. National Symposium on “**Contemporary Trends in Biological Sciences** ” held on January 9-11, 2002, at Department of Biological Science, R.D. University, Jabalpur.
15. Silver Jubilee Conference of Indian Botanical Society and **National Symposium** on “**Bioscience: Advances, Impact and Relevance** ” held on 27-29 October 2002 at Department of Plant Science, M.J.P Rohilkhand University, Bareilly.
16. National seminar on “**Perspectives of Microbial Diversity in Present Scenario** ” held on 11-12 March 2003 at Department of Botany-Microbiology, Govt. Auto. M.H. College of Home Science and Science for Women, Jabalpur and **Chaired the technical session**.
17. “*Patent Awareness Workshop* ” held on 27 March 2003 at Maharishi Dayanand University, Ajmer.
18. International Symposium on “**Microbial Diversity: Challenges, Opportunities & Relevance in New Millennium** ” held on November 19-21, 2004, at Department of Biological Science, R.D. University, Jabalpur (M.P.). **Chaired the technical session**.
19. National Seminar on “**Biotechnology in the Conservation of Biodiversity** ” held on November 22, 2008, at Department of Life Science, Sir C. R. Reedy Autonomous College, Eluru (A.P.). **Chaired the technical session**.
20. National Seminar on “**Environmental Pollution- Control Measures - An Economic Incentive Too** ” held on 5<sup>th</sup> -6<sup>th</sup> March 2010 at Department of Zoology, CH.S.D.ST. Theresa’s Autonomous College, Eluru (A.P.). **Chaired the technical session**.
21. International conference on “**12<sup>th</sup> Delhi Sustainable Development Summit (DSDS)** ” held on 2-4 February 2012, organized by The Energy and Resources Institute at The Taj Palace Hotel in New Delhi.
22. National Conference on “**Sustainable Practices to Meet Challenges in Indian Agriculture** ” held on 2<sup>nd</sup> June 2012 at The Energy and Resources Institute, New Delhi.
23. Training on “**Mentoring and Coaching Skills for Fellows & Sr. Fellows** ” held on 6<sup>th</sup> July at The Energy and Resources Institute, New Delhi.
24. Workshop on “**Presentation Skill for Research Professionals** ” held on 8<sup>th</sup> November at The Energy and Resources Institute, New Delhi.
25. National Conference on “**Agribiotechnology- Industrial Relevance of Genomics and Nanobiotechnology** ” held on 27<sup>th</sup> November 2012 at The Energy and Resources Institute, New Delhi.
26. 7th International Conference on **Mycorrhiza (ICOM7) “Mycorrhiza for All: An Under-Earth Revolution”** held on 6-11, January 2013 at The Energy and Resources Institute, IHC, New Delhi.
27. **International conference on “13<sup>th</sup> Delhi Sustainable Development Summit (DSDS) ”** held on 31 January-2 February 2013, organized by The Energy and Resources Institute at The Taj Palace Hotel in New Delhi.
28. The International Conference on “**Agriculture and Climate Change (ICACC)** ” was held on 29-30 January 2013, at Silver Oak, The Energy and Resources Institute, IHC, New Delhi.

29. Information workshop on “**Mycorrhiza**” was held on 13 February 2013 at The Energy and Resources Institute, IHC, New Delhi.
30. 4th Annual National Conference on “**Green Design**” held on 14-15 February 2013 at Tata Energy Research Institute, IHC, New Delhi
31. National Conference on “**Science Knowledge in Hindi**” was held on 6-7 June 2013, at Atal Bihari Vajapai Hindi University, Bhopal, Madhya Pradesh.
32. International conference on “**14<sup>th</sup> Delhi Sustainable Development Summit (DSDS)– Attaining Energy, Water and Food Security for All**” held on 5-8 February 2014, organized by The Energy and Resources Institute at The Taj Palace Hotel, New Delhi.
33. National Level webinar on “**Spitting Kills to Prevent the Spread of Covid 19**” held on April-May 2020, organized by Sambanth Health Foundation and Tata Memorial Hospital, Mumbai, Maharashtra, India.
34. National webinar on “**Home Electricity Footprint**” held on 2<sup>nd</sup> May 2020, Organized by TERI, New Delhi, India
35. National webinar on “**Bacterial Virulence: Perceptive and Pragmatic approach**” held on 5<sup>th</sup> May 2020 organized by Department of Microbiology, Indian Academy Degree College-Autonomous, Bangalore, India.
36. National webinar on “**An Overview on the Degradation of Emerging Micro-pollutants by Ferrate (VI) Treatment**” & ‘Issues in Micro plastics Research: Focusing on Analytical Methods” held on 20<sup>th</sup> May 2020, Organized by Department of Chemistry, Mizoram University, Aizawl, Mizoram, India
37. National Webinar on “**MSME Perspective post COVID-19 with Respect to Supply Chain, Markets and Government Stimulus**” held on 22<sup>nd</sup> May 2020, Organized by G.S. Collage of Commerce & economies, Jabalpur, M.P. India
38. National webinar on “**Life Sciences Research: Post Covid - 19**” held on 22<sup>nd</sup> May 2020, jointly organized by Department of Biochemistry & Forensic Science Department of Microbiology & Biotechnology, Gujarat University, Gujarat, India.
39. National Awareness Programme on “**Covid-19 Awareness Quiz 2020**” held on 24<sup>th</sup> -21<sup>st</sup> May 2020, Organized by Internal Quality Assurance cell, Government Science Collage, Jabalpur, M.P.
40. National Level webinar on “**Nanotechnologies in Detection of Human Fungal Diseases and Their Treatment**” held on 25<sup>th</sup> May 2020, Organized by Mycological Society of India Mumbai Unit, Mumbai, India
41. National Workshop on “**Novel COVID-19 ‘Mental Health Awareness’**” held on 26<sup>th</sup> -30<sup>th</sup> May 2020, Organized by Some Vivekananda career Marg Darshan Yojana, High Education Department, Government of Madhya Pradesh, Jabalpur, M.P., India
42. National Awareness E-Quiz on “**Covid-19 Pandemic Awareness**” held on 28<sup>th</sup> May 2020, Organized by Department od Botany and Microbiology, Government Dig Vijay Autonomous P.G. Collage, Rajnandgaon, Chhattisgarh, India
43. Online National Conference on “**Quality in Teaching, Learning and Evaluation: A Need for Academic Excellence**” held on 29<sup>th</sup> -30<sup>th</sup> May 2020, organized by Internal Quality Assurance cell, St. Aloysius’ College (Autonomous), Jabalpur, M.P. India.
44. National Webinar on “**Urban Farming**” held on 1<sup>st</sup> June 2020, Organized by Department of Botany, Career collage, Bhopal, Jabalpur, M.P. India

45. National Webinar on “**Fungal Pigments: Scope and Applications in Food Industry**” held on 2<sup>nd</sup> June 2020, Organized by School of Applied Sciences, Suresh Gyan Vihar University, Jaipur, Rajasthan, India
46. National Webinar on “**Sustainable IT in Rural and Remote Environments**” held on 2<sup>nd</sup> June 2020, Organized by Department of Management. The Mizoram Central University, Aizawl, India.
47. National Webinar on “**Use of Bloom’s Taxonomy in Quality Teaching and Evaluation**” held on 2<sup>nd</sup> June 2020, Organized by G.S. Collage of Commerce & economies, Jabalpur, M.P. India.
48. Online National Conference on “**Current Approach to Identification& Taxonomy of Micro fungi Life Sciences Challenges and Opportunities: COVID-19 Pandemic**” held on 1<sup>st</sup>- 2<sup>nd</sup> June 2020, organized by Faculty of Life Sciences, St. Aloysius’ College (Autonomous), Jabalpur, M.P. India
49. Online National Quiz on “**Environment Awareness Quiz-2020**” held on 3<sup>rd</sup> June 2020, organized by Department of Biotechnology with NSS & Unnat Bharat Abhiyaan, St Aloysius Collage, Jabalpur, M.P. India
50. International Webinar on “**COVID-19: Roadmap to Future Environment**” held on 5<sup>th</sup> June 2020, Organized by Department of Botany, St John’s Collage, Agra, India.
51. International e- Seminar on “**Biodiversity & Human Welfare**” on occasion of World Environment Day, held on 5<sup>th</sup>-6<sup>th</sup> June 2020, Organized by School of Biological Engineering & Life Science, Shobhit Institute of Engineering and Technology, Meerut, India.
52. National Webinar on “**Role of Microorganisms in Biodiversity Conservation and Sustainable Development**” held on 6<sup>th</sup> June 2020, Organized by B.M.S. College of Engineering & Indian Academy Degree College Autonomous, Bengaluru In association with Indian Women Scientist’s Association (IWSA), Bengaluru Branch, India.
53. International Webinar on “**COVID-19: Challenges and Opportunity for Sustainable Environmental Development**” held on 5-7<sup>th</sup> June 2020, Organized by Department of Environmental Science, AKS University, Satan, M. P. In association with The National Academy of Sciences, India, Bhopal Chapter and The Academy of Environmental Biology & The Society of Life Science, India.
54. National online Quiz Competition on “**COVID-19: Health & Wellness**” held on 6<sup>th</sup> June 2020, Organized by IQAC & Personality Development Cell, Government Girls Collage, Katni, M.P. India
55. National Webinar on “**Challenges of Living with COVID-19**” held on 7<sup>th</sup> June 2020, Organized by Department of Science, Krishna Group of Collage, Bijnor, Uttarakhand, M.P., India.
56. National Webinar on “**Small Scale Industries: Present Position & Future Prospects**” held on 11<sup>th</sup> June 2020, Organized by G.S. Collage of Commerce & economies, Jabalpur, M.P. India.
57. International Webinar on “**Stress Management Problem and Challenges in Higher Education Global Perspective**” held on 15<sup>th</sup> June 2020, Organized by G.S. Collage of Commerce & economies, Jabalpur, M.P. India
58. National Webinar on “**Role of Local Youth in Sustainable Rural Development**” held on 15<sup>th</sup> June 2020, Organized by Faculty of Social Science & Humanities, Mansarovar Global University, New Delhi, India.

59. National Webinar on “**Herbal Resource and Their in-Boosting Immunity Against COVID-19**” held on 15<sup>th</sup> June 2020, Organized by School of Studies in Botany and S.K. Jain Institute of Ethno biology, Jiwaji University, Gwalior, M. P., India.
60. National Level Webinar on “**Current Approach to Identification& Taxonomy of Micro Fungi**” held on 17<sup>th</sup> June 2020, Organized by Mycological Society of India Mumbai Unit.
61. National Webinar on “**Laboratory Biosafety with Special Reference to COVID 19 Diagnoses**” held on 19<sup>th</sup> June 2020, Organized by Department of Veterinary Microbiology, Collage of Veterinary Science and Animal Husbandry, Jabalpur, M. P. India.
62. International Webinar Conference on “**Global Response to COVID -19**” held on 20 June 2020, jointly organized by IIHS, Sri Lanka and USA.
63. National Webinar on “**High Performance Thin Layer Chromatography Technique and Herbal Applications**” held on 20 June 2020, jointly Organized by Anchrom Enterprises (I) Pvt. Ltd., Mumbai and Madhya Pradesh Council of Science and Technology, Bhopal, M. P., India.
64. National Webinar on “**Research on Plagiarism**” held on 23<sup>rd</sup> June 2020, Organized by Faculty of Management Studies, AKS University, Satan, M. P., India.
65. National online Webinar on “**Yoga Awareness Quiz – 2020**” held on 18-21<sup>st</sup> June 2020, Organized by JCCC College, Jabalpur, M. P.
66. National E-Quiz on “**Environmental Issues**” held on 24<sup>th</sup> June 2020, Organized by Saraswati Institute of Engineering and Technology, Jabalpur, M. P., India.
67. International Webinar on “**Emerging trend in Biotechnology: Current and Future Challenges in Biotechnology for Sustainable Research** ” held on June 24<sup>th</sup> -26<sup>th</sup>, 2020, organized by the Department of Biotechnology, Pachhunga University College (PUC), and Mizoram University, Mizoram, India.
68. National Level Webinar on “**Fungal Endophytes: Structural and Functional Diversity**” held on 24<sup>th</sup> June 2020, Organized by Mycological Society of India Mumbai Unit.
69. National E-Quiz on “**Environmental Awareness “COVID-19 - Prevention a Challenges**” held on 26<sup>th</sup> -29<sup>th</sup> June 2020, Organized by School of Sciences, Mats University, Raipur (C.G.)
70. International e- Conference on “**Bioelectronics & Informatics in Present Scenario**” held on June 26<sup>th</sup> -27<sup>th</sup>, 2020, organized by Department of Electronics and Communication Engineering Shobhit Institute of Engineering and Technology, Deemed University, Meerut, India.
71. International E- Quiz On “**An Herbal Way: Combating COVID-19 And Public Awareness To Spread Awareness About COVID-19 Pandemic**” held on 26<sup>th</sup> June to 04<sup>th</sup> July, 2020, Organized by Department of Botany and Microbiology Govt. Science College, Jabalpur, M.P., India.
72. National Webinar on “**Advance in Disease and Pest Management for Sustainable Banana Industry**” held on 4<sup>th</sup> July, jointly organized by ICAR-IIHR, Bengaluru, Karnataka and AAU, Jorhat, Assam, India.
73. National E-Quiz on ‘**Environmental Pollution and Environment Law**” held on 5<sup>th</sup>- 8<sup>th</sup> July 2020, Organized by Laxmi Bai Sahuji College, Jabalpur. M. P., India.
74. National Bioingene Plant Science Research of online Seminar on “**Development of Climate Change Resilient Rice Varieties through Molecular Breeding**” held on 6<sup>th</sup> July 2020, Organized by Bioingene. Com, India.

75. National E-Quiz on “**COVID - 19 Quiz Awareness Programme**” held on 6<sup>th</sup>- 7<sup>th</sup> July 2020, Organized by Department of Botany, Kamla Nehru Institute of Physical and Social Sciences, Sultanpur, U. P. India.
76. National Level webinar on "Current Use of DNA Sequence Data in Fungal Taxonomy Impact and Future Perspectives" held on 6<sup>th</sup> July 2020, organized by Mycological Society of India Mumbai Unit. Maharashtra, India.
77. International Webinar On “**Information and Communications Technology (ICT) In Higher Education**” during Covid-19” held on 9<sup>th</sup> July 2020, organized by P.G Department Of Mathematics and Computer Science, St. Thomas College, Ruabandha, Bhilai, Chhattisgarh, India
78. National Webinar on “**Immune Therapeutic Diet: A Challenge Against COVID-19 Infection**” held on 12<sup>th</sup> July 2020, Organized by Sage Talks of Sagar Group of Institution, Bhopal, M. P., India.
79. National Webinar on “**Effects of COVID-19 on Migrant Workers and Future Prospects**” held on 18<sup>th</sup> July 2020, organized by St. Vincent Pallotti College Raipur, Chhattisgarh, India.
80. National Web on “**Digital Transformation of Higher Education in India**” held on 21<sup>st</sup> July 2020, Organized by Kanti Darshan Shaikshanik and Computer Prashikshan Sansthan, Kanti Darshan Mahavidyalaya, Bhilai, Chhattisgarh. India.
81. National AISNP Webinar Lecture Series on the topic of “**Advancing Scientific Research for Future Healthcare: Special Emphasis on Gene Therapy**” held on 21<sup>st</sup> July 2020 delivered by Dr. Rohidas Arote, Associate Professor, Department of Molecular Genetics School of Dentistry, Seoul National University, Republic of Korea, organized by Amity International Society for Natural Products, Health & Allied Sciences Domain, Amity University Uttar Pradesh, Noida, India.
82. National Webinar on “**Classroom Management Tools**” held on 23<sup>rd</sup> July 2020, organized by Department of Commerce, SCMS, School of Technology & Management, Mutton Aluva, Ernakulam, Kerala.
83. National Wide online Quiz completion on “**Sociology**” held on 27<sup>th</sup> July 2020, organized by A Premium International Forum for Research, Dr. N.V.S. Suryanarayana President Young Researcher Forum, Mumbai and Administrative Office, Central Tribal University of Andhra Pradesh, Vizianaharam, A.P., India.
84. National Wide online Quiz completion on “**Zoology**” held on 27<sup>th</sup> July 2020, organized by A Premium International Forum for Research, Dr. N.V.S. Suryanarayana President Young Researcher Forum, Mumbai and Administrative Office, Central Tribal University of Andhra Pradesh, Vizianaharam, A.P., India.
85. National Level Quiz on “**ICT Tools in Teaching**” held on 28<sup>th</sup> July 2020, organized by the Department of Pharmacology, Jayaamukhi Collage of Pharmacy, Warangal, Telangana, India.
86. National Webinar on “**Plagiarism in Research and its Prevention**” held on 30<sup>th</sup> July 2020 jointly organized by Library, Government RBR NES PG College, Jashpur, C.G. and Library, Government MDP College, Katghora, C.G., India.
87. National Awareness Quiz on “**Epidemiology of COVID-19**” held on 30<sup>th</sup> July 2020, Organized by Department of Botany, Government collage, Bichhua, Chinaware, M.P. India.
88. National Web Conference on “**Digital Modules**” held on June-July 2020, organized by the Merck High-End Skill Development Centre, a CSIR-IMTech Initiative (Ministry of Science & Technology, Govt. of India) Merck Innovation Lab, Bangalore, and Chandigarh.

89. National Webinar on “**COVID-19: A Blessing in Disguise- How to Grass the Opportunity Biosciences**” held on 1<sup>st</sup> August 2020, organized by Rungta Group of Institute, India.
90. National Webinar on “**Contemporary Issues in Biosciences**” held on 4<sup>th</sup> August 2020, organized by School of Life Sciences, Mahatma Gandhi Central University, Motihari, Bihar.
91. National Webinar on “**Opportunities & Challenges in Biotechnology**” held on 4<sup>th</sup> August 2020, organized by Peoples Education Society, Millind Collage of Science, Aurangabad, Maharashtra, India
92. National Level Quiz on “**World Pandemic Covid Information Quiz First**” held on 9<sup>th</sup> -14<sup>th</sup> August 2020, organized by District Red Cross Society, Collector Office, Jabalpur, M. P.
93. National Web Conference on “**Plastic and E-Waste Management: A Challenge to Clean Environment**” held on 13<sup>th</sup> -14<sup>th</sup> August 2020, organized by Department of Environmental Science, AKS University, Satna, M. P., India.
94. National Web Conference on “**Challenges and Opportunist in Life Science for self-Sustaining Life Security**” held on August 18<sup>th</sup>-19<sup>th</sup>, 2020, organized by the Department of Environmental Science, Faculty of Life Science & Technology, KS University, Satna, M. P., and India.
95. National Seminar on “**Environment and Urban Ecosystem: From Individual to Ecological**” held on 30<sup>th</sup> September 2020, Organized by Vivekananda College University of Delhi, New Delhi, India
96. National Webinar on “**New Education Policy: Social Dimensions**” held on 24<sup>th</sup> October 2020, Organized by Department of Sociology, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India.
97. National webinar on “**Fungal Systematic and Technological Advances**” held on 29<sup>th</sup> -30<sup>th</sup> November 2020, organized by Department of Botany, Shri Shivaji Science College-Amravati in Association with Mycological Society of India Mumbai Unit, Mumbai, India.
98. National webinar on “**Cancer Prevention and Healthy Lifestyle**” held on 16<sup>th</sup> December 2020, jointly organized with Sanjeevani Life beyond Cancer, Mumbai and Department of Microbiology and Biotechnology, St. Thomas College, Bhilai, Chhattisgarh, India.
99. International Webinar On “**Current Treads & Future Prospects of Plant Sciences**” held on 17<sup>th</sup> December 2020, organized by Department of Botany, Government College, Patharia, Distt. Damoh, M. P., India.
100. International Webinar On “**Journey of Rice Research from Salinity to Fluoride Stress Response**” held on 31<sup>st</sup> December 2020, organized by Bioingene.com, Plant Science Research, University of Calcutta, Kolkata, W. B. India.
101. National Conference on “**Advances in Fungal Biotechnology (NOCAIF-2021)**” held on 23-24 January 2021, organized by School of life Science, Swami Ramanand Teerth Marathwada University, Vishnupuri, Nanded, Maharashtra in Association with Mycological Society of India, Mumbai Unit (MSI-M)
102. 3<sup>rd</sup> National seminar on “**Current Trends in Life Sciences (NSCTLS-2021)**” held on January 29, 2021, organized by Amity Institute of Biotechnology, Amity University, Madhya Pradesh, Gwalior in association with NASI (Bhopal Chapter) and Society of Life Science.
103. ESW 8<sup>th</sup> Annual National Research Conference on “**Anthropogenic impact on the environment, society and human health**” held on 30-31<sup>st</sup> January 2021, organized by environment and social welfare society, Khajuraho, M.P., India
104. International webinar as a part of Diamond Jubilee Celebration on “**Molecular Communication Across the Fungus Host Interface**” held on 7<sup>th</sup> February 2021, organized

by Department of Botany, Sies College of Arts, Science & Commerce (Autonomous) in Association with Mycological Society of India, Mumbai Unit (MSI-M)

- 105. National webinar on "**Probiotics: Health benefits and application for developing healthier foods**" held on 9<sup>th</sup> February 2021, organized by Department of Botany, Career collage, Bhopal, M.P. India.
- 106. National 7 days Faculty Development Program "**Developing Teaching Techniques and Research Skills**" held on 15<sup>th</sup> -22<sup>nd</sup> February 2021, organized by Government Mahakoshal arts and commerce Autonomous lead collage, Jabalpur
- 107. National webinar Science Day celebration on "**Effective Translational Science Is an Urgent Need for The Future of Humanity**" held on 1<sup>st</sup> March 2021, organized by Department of Zoology & IQAC, Government OTK Collage, Jabalpur
- 108. International Webinar on '**Vedic Microbiology**' held on 25<sup>th</sup> March 2021, organized by Eklavya University, Damoh, M.P. India.
- 109. International Webinar on '**Technology Advance in Chemical Science to Salve Modern Problems**' held on 3 April 2021, organized by Eklavya University, in collaboration with Ojaswini College, Damoh, M.P. India.
- 110. International webinar on "**200 years of American Cranberry Domestication & Status of Fruit Rot Research**" held on 26<sup>th</sup> April 2021, organized by Bioingene.com, Calcutta, W. Bengal, India
- 111. National webinar on "**Sustainable Approach for Environmental Problem in Covid Era**" held on 9<sup>th</sup> May 2021, organized by RKDF University, Ranch, Jharkhand, India
- 112. International webinar on "**Building your Career for Employability: Post Covid Era**" held on 9<sup>th</sup> May 2021, organized by RKDF University, Ranch, Jharkhand, India
- 113. International webinar on "**Enhancing Yield in Rice Employing a Systematic Marker-assisted Gene Pyramiding**" held on 19<sup>th</sup> May 2021, organized by Bioingene.com, Calcutta, W. Bengal, India
- 114. Bio Agri **2021 Bioinnovation of Regeneration Agriculture**, 28- 29 October 2021, Hotel the Westin, Hyderabad.
- 115. National Webinar on **Digital Payment Fraud in cyber space**, Dept of Commerce, SCMS, Aluva, 4th Dec 2021.
- 116. International Webinar, **Totally Biodegradable biopolymer from Jute as an alternate of Plastic** on 13 Dec 2021, at Bioingene.
- 117. **Quality Enhancement in Research** by IQAC, Govt of MP, 11-17 Jan 2022 at SBN Govt College, Barwani, M.P.
- 118. IPAT-2022 under ICAR-CAAST-SNRM project, Dept of Soil Sciences, Punjab Agriculture University, Ludhiana on 22 Feb 2022.
- 119. BioAg ASIA 2022 Towards **Ecological and Sustainable Agriculture**, 20-21 April 2022, NASC, New Delhi
- 120. 7th Asian PGPR 2022 **International Conference for sustainable Agriculture** 23-26 August 2022, Auditorium Rashdan Baba, University Putra, Malaysia.
- 121. **Biopesticide and Bioregulators: Role in sustainable Agriculture** (BBRSA 2022), 11th Sept 2022, BARC, Mumbai.
- 122. National Seminar on **Revised Assessment and Accreditation Framework of NAAC** on 24 Sept 2022, Bhopal.
- 123. International Webinar on **Industry Academia Connect in Fungal Biotechnology** held on 2nd October

124. PM Kisan Samman Sammelan 2022 on 17th October 2022, IARI, New Delhi
125. Bio Agri 2022 India - **The Global Gateway for Bio Ag Solutions**, 19-20 October 2022, Hotel Park Hyatt, Hyderabad.
126. **World Bioprotection Forum**, Sarda University, Grater Noida, 1 December 2022.

**Life Membership for Scientific Societies:**

- (i) Indian Science Congress Association.
- (ii) Mycorrhiza News, The Energy and Resources Institute.
- (iii) Indian Botanical Society.
- (iv) Indian Phytopathological Society.
- (v) Mycological Society of India.
- (vi) Society for Basic and Applied Mycology.
- (vii) Phytopathological Research Society.
- (viii) Mycological Research.
- (ix) Asian PGPG Society of Sustainable Agriculture

**Invited Reviewer:**

- India Saudi Journal of Biological Sciences
- African Journal of Biotech
- Journal of Basic and Applied Mycology
- Journal of Materials Sciences and Applications
- Advanced Scholars
- Bioresource Technology
- Scientific Journals International
- Current Investigations in Agriculture and Current Research
- Journal of Bioscience & Biomedical Engineering
- Aditum Journal of Clinical and Biomedical Research
- International Journal of Environment and Climate Change
- International Journal of Plant and Soil Science
- Asian Journal of plant and Soil Science
- Journal of Experimental Agriculture International
- Asian Journal of Research in Crop Science
- Asian Research Journal of Agriculture
- Journal of Advances in Microbiology
- Asian Research Journal of Agriculture
- Journal of Advance in Microbiology
- Asian Journal of Agricultural Extension, Economics & Sociology
- Current Journal of Applied Science and Technology
- International Journal of Biochemistry Research and Review

**Member of Editorial Board:**

1. **South Asia Journal of Experimental Biology (2012-14)**
2. **Journal of Plant Science, Science Publishing Group, USA**

**Editor in Chief:**

1. **South Asia Journal of Experimental Biology (2014 onwards)**

**Member of Organizing Committee of International/National Seminar:**

- National Symposium on “**Emerging Issues in Plant Pathology and The Biology of Plant Microbe Interactions**” at Jabalpur, February 15-17, 1997
- International Symposium on “**Microbial Biotechnology for Sustainable Development and Productivity**” at Jabalpur, November 14-16, 1998
- International Symposium on “**Microbial Diversity: Challenges, Opportunities & Relevance in New Millennium**” at Jabalpur, November 19-21, 2004
- 7<sup>th</sup> International conference on **Mycorrhiza** (ICOM7) “**Mycorrhiza for All: An Under-Earth Revolution**” TERI, New Delhi, January 6-11, 2013
- International conference on “**14<sup>th</sup> Delhi Sustainable Development Summit (DSDS)**” - **Attaining Energy, Water and Food Security for All, TERI, New Delhi**, 5-8 February 2014.

**Technical session chaired:**

- **Emerging Issues in Plant Pathology and The Biology of Plant Microbe Interactions**, Jabalpur, Madhya Pradesh ,1997
- **Biotechnology of Plant Protection- Application and Technology Development**, Varanasi, Uttar Pradesh 2000
- **Environmental Pollution: The Challenges in New Millennium**, Biharsharif, Bihar, 2001
- Perspectives of **Microbial Diversity in Present Scenario**, Jabalpur, Madhya Pradesh 2003
- **Microbial Diversity: Challenges, Opportunities & Relevance in New Millennium**, Jabalpur, Madhya Pradesh, 2004
- **Biotechnology in the Conservation of Biodiversity**” Eluru, Andhra Pradesh,2008

**Other Hobbies** : Sports and News, New Research, Publication

**LIST OF PUBLICATIONS****International and National Peer-reviewed Journal**

1. **Prasad, K.** and Bilgrami, R. S. 1993. Effect of VAM on uptake of phosphate by Sugarcane. *Journal Indian Botanical Contractors* **10**: 59-62. (**ISBN: 0971-8958**).
2. Bilgrami, R. S. and **Prasad, K.** 1993. Impact of VAM on level of sucrose in *Saccharum officinarum* L. grown in amended soil. *Mycorrhiza News* **5(3)**: 6-7. (**ISSN: 0970-695X**).

3. **Prasad, K.** 1995. Physico chemical characteristics of soil in relation to vesicular arbuscular mycorrhizal (*Glomus fasciculatum*) colonization in *Saccharum officinarum* L. *Journal of Phytological Research* **8**(2): 201-205. (ISSN: 47998/88) [Impact Factor (2000): 1.0].
4. **Prasad, K.** 1997. Effect of vesicular arbuscular mycorrhizal fungi, particularly *Glomus fasciculatum* and phosphates on chlorophyll content of *Saccharum officinarum* L. *Indian Journal of Applied and Pure Biology* **12**(2): 91-95. (ISBN: 8181560245) [Impact Factor (2000): 1.08].
5. **Prasad, K.** 1997. Improvement of biomass yield of *Terminalia arjuna* L. through vesicular arbuscular mycorrhizal fungi (*Glomus fasciculatum*) under nursery and field condition. *Journal of Phytological Research* **10**(1-2): 39-41. (ISSN: 47998/88) [Impact Factor (2000): 1.0].
6. Prasad, K. 1998. Effect of *Glomus fasciculatum* VAM form and *Rhizobium* on biomass yield and nutrient uptake of *Dalbergia sissoo* L. *Journal of Tropical Forestry* **14**(111): 143-148. (ISBN: 978-245-261-0) [Impact Factor (2000): 0.47].
7. Gautam, S. P., **Prasad, K.** and Maitra, A. 1998. Impact of *Glomus macrocarpum* (VAM) on protein content of *Dendrocalamus strictus* (Roxb.) Nees under field conditions. *Indian Journal of Applied and Pure Biology* **13**(1): 41-45. ISBN: 8181560245 [Impact Factor (2000): 1.08].
8. **Prasad, K.** 1998. Survey of vesicular arbuscular mycorrhizal (VAM) fungal colonization in some weeds species. *Indian Journal of Applied and Pure Biology* **13**(2): 87-90. (ISBN: 8181560245) [Impact Factor (2000): 1.08]
9. **Prasad, K.** 1998. Biological control of rhizospheric microflora of *Saccharum officinarum* L. plant through vesicular arbuscular mycorrhizal (*Glomus fasciculatum*) fungi. *Biome* **8**(1-2): 131-136. (ISBN-10: 0226649199; ISBN-13: 978-0226649191).
10. **Prasad, K.** 1999. Vesicular arbuscular mycorrhizal fungi (VAMF) associated with *Prosopis juliflora* (L.). *Journal of Tropical Forestry* **15**: 233-236. (ISBN: 978-245-261-0) [Impact Factor (2000): 0.47].
11. **Prasad, K.** and Deploey, J. J. 1999. Incidence of arbuscular mycorrhizae and their effect on certain species of trees. *Journal of the Pennsylvania Academy of Science* **73**(3): 117-122. USA, (ISBN: 978-0849342585) [Impact Factor (2000): 1.8].
12. **Prasad, K.** 2000. Growth responses of *Acacia nilotica* (L.) Del. inoculated with *Rhizobium* and *Glomus fasciculatum* VAM fungi. *Journal of Tropical Forestry* **16**(1): 22-27. (ISBN: 978-245-261-0) [Impact Factor (2000): 0.475].
13. **Prasad, K.** and Gautam, S. P. 2000. Arbuscular mycorrhizal spore types present in the root zone of *Dalbergia sissoo* L. *Vislesana, Research Journal (Science)* **7**(2): 013-018. (ISBN: No: 978-975-6707-28-9).
14. **Prasad, K.** 2000. Impact of arbuscular mycorrhizal (AM) fungi on biomass yield of *Terminalia arjuna* under field conditions. *Vislesana, Research Journal (Science)* **7**(2): 73-79. (ISBN: No: 978-975-6707-28-9).
15. Gautam, S. P. and **Prasad, K.** 2000. Effect of *Glomus macrocarpum* AMF on the fiber strength properties and production of holocellulose, hemicellulose and cellulose by

*Dendrocalamus strictus* under field conditions. *Journal of Phytological Research* **13(1)**: 35-40. (ISSN: 47998/88) [Impact Factor (2000): 1.0].

16. **Prasad, K.** 2002 Interaction between *Glomus fasciculatum* AMF and *Rhizobium* and their effect of *Prosopis juliflora* in nursery conditions. *Journal of Basic Applied Mycology* **1(1)**: 130-143. (ISBN: 978-3-8454-3764-4). (Impact Factor: 1.887)
17. **Prasad, K.** and Bilgrami, R. S. 2004. Impact of *Glomus fasciculatum* (AMF) and phosphates on biomass yield of *Saccharum officinarum L.* *Journal of Basic Applied Mycology* **3(I&II)**: 108-110. (ISBN: 978-3-8454-3764-4). (Impact Factor: 1.887)
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**NCBI Gene Banks:** Molecular Identification Using 16s rDNA Base Molecular Technique (Sequenced by: Eurofins Genomic India Pvt Ltd): 1000 New Isolated bank at Labs.

<b>S. No</b>	<b>Sample No.</b>	<b>Name and species of Microbes</b>	<b>Accession no</b>
1	BioX02	<i>Bacillus inaquosorum</i>	OP269688
2	BioX04	<i>Flavobacterium ginsengisoli</i>	OP269690
3	BioX08	<i>Priestia megaterium</i>	OP269832
4	BioX 605	<i>Bacillus subtilis</i>	ON892059
5	BioX606	<i>Bacillus subtilis</i>	ON892497
6	BioX607	<i>Stenotrophomonas Pavani</i>	ON892561
7	BioX608	<i>Burkholderia contaminans</i>	OP035843
8	BioX609	<i>Stenotrophomonas maltophilia</i>	OP035842
9	BioX610	<i>Stenotrophomonas pavani</i>	OP068308
10	BioX611	<i>Bacillus inaquosorum</i>	OP068353
11	BioX612	<i>Stenotrophomonas pavani</i>	OP070956
12	BioX614	<i>Stenotrophomonas pavani</i>	OP070962
13	BioX616	<i>Stenotrophomonas maltophilia</i>	OP117314
14	BioX617	<i>Pseudomonas hibiscicola</i>	OP117320
15	BioX619	<i>Stenotrophomonas geniculata</i>	OP117352
16	BioX621	<i>Priestia megaterium</i>	OP117357
17	BioX622	<i>Stenotrophomonas pavani</i>	OP117360
18	BioX623	<i>Stenotrophomonas geniculata</i>	OP117370
19	BioX624	<i>Bacillus inaquosorum</i>	OP117381
20	BioX625	<i>Stenotrophomonas pavani</i>	OP117386
21	BioX626	<i>Priestia endophytica</i>	OP117434
22	BioX627	<i>Stenotrophomonas maltophilia</i>	OP117440
23	BioX628	<i>Stenotrophomonas pavani</i>	OP143752
24	BioX629	<i>Stenotrophomonas maltophilia</i>	OP143850
25	BioX630	<i>Stenotrophomonas geniculata</i>	OP143851
26	BioX632	<i>Stenotrophomonas tumulicola</i>	OP218251
27	BioX633	<i>Bacillus aerius</i>	OP218252
28	BioX634	<i>Bacillus subtilis</i>	OP218253
29	BioX635	<i>Staphylococcus gallinarum</i>	OP218254
30	BioX636	<i>Stenotrophomonas pavani</i>	OP218868
31	BioX637	<i>Cytobacillus firmus</i>	OP218254
32	BioX638	<i>Bacillus safensis</i>	OP247650
33	BioX639	<i>Priestia aryabhattai</i>	OP247652
34	BioX641	<i>Priestia endophytica</i>	OP247659
35	BioX642	<i>Priestia filamentosa</i>	OP247682
36	BioX643	<i>Bacillus subtilis</i>	OP247710

37	BioX644	<i>Lysinibacillus macrooides</i>	OP248796
38	BioX645	<i>Priestia megaterium</i>	OP249278
39	BioX646	<i>Bacillus pumilus</i>	OP257206
40	BioX647	<i>Paenibacillus alvei</i>	OP257229
41	BioX648	<i>Staphylococcus pasteurii</i>	OP257230

**Following is the list of Patent filed and ongoing Filling:**

1. Invention (**ID 3**): A Formulation of Consortium of Endomycorrhiza and A Process of Preparation thereof
2. Invention (**ID 15**): Microbial Consortium Comprising Strains of *Bacillus Aryabhatai*, *Paenibacillus Azotofixans* and *Pseudomonas Azotoformans* and thereof
3. Invention (**ID7**): Silicon based liquid super-spreader to be mixed with product formulation for better adhesion to the crop
4. Invention 1 (**ID 8**): Method of preparation of double-layered microencapsulation on microbes through spray drying technique and the double-layered microencapsulation formulation produced thereof.
5. Invention 2 (**ID 9**): Consortium (XenAg-B001, XenAg-B009, XenAg-B010 and XenAg-F008) and its microencapsulation through spray drying technique and application thereof.
6. Invention 3 (**ID 10**): Consortium (XenAg-B001, XenAg-B003, XenAg-B004 and XenAg-B010) and its microencapsulation through spray drying technique and application thereof.
7. Invention 4 (**ID 11**): Consortium (XenAg-F003, XenAg-F004 and XenAg-B001) and its microencapsulation through spray drying technique and application thereof.
8. Invention 5 (**ID 12**): Consortium (XenAg-B003, XenAg-F004 and XenAg-F005) and its microencapsulation through spray drying technique and application thereof.
9. Invention 6 (**ID 13**): Consortium (XenAg-F001, XenAg-F004 and XenAg-B011) and its microencapsulation through spray drying technique and application thereof.
10. Invention 7 (**ID 14**): Consortium (XenAg-B005, XenAg-F001 and XenAg-F004) and its microencapsulation through spray drying technique and application thereof.

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