

## 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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### **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 Maharshi 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

Leiro™ HymiZen Utra G- Biostimulant in Granules

Leiro™ HymiZen Utra P- Biostimulant in SP

Leiro™ 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.), Koraba, (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 (SFCD), 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. Vuyyuru (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 : **J 9211858**

**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. 19<sup>th</sup> 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, Harwar.
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 Vajpayee 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 of 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, Satna, 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, Satna, 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, Ernakulum, 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) Phytological 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**, Bihar Sharif, 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)
  18. **Prasad, K.** and Bilgrami, R. S. 2005. Interaction between arbuscular mycorrhizal fungus (*Glomus fasciculatum*) and rhizospheric fungi in *Saccharum officinarum* L. Special vol. of Rhizosphere 2004, *Journal of Soil Science and Plant Nutrition* **56**: 1234-1239. (ISBN: 92-9027-004-7) [Impact Factor (2000): 1.596].
  19. **Prasad, K.** 2005. Arbuscular mycorrhizal fungal occurrence in non-cultivated disturbed and non-fertile land of Bettiahraaj, Bettiah, Bihar. *Mycorrhiza News* **16(4)**: 12-14. (ISSN: 0970-695X).
  20. **Prasad, K.** Meghvansi, M. K., Harwani, D., Mahna, S. K. and Werner, D. 2005. Synergistic effect of arbuscular mycorrhizal fungi and *Bradyrhizobium japonicum* on growth, yield and nutrient status of Soybean (*Glycine max* (L.) Merrill). *Anusandhan* **1**: 23-29. (ISBN: 978-81-910874-2-0).
  21. **Prasad, K.** and Gautam, S. P. 2005. Effect of inoculation of arbuscular mycorrhizal fungus (*Glomus macrocarpum*) on the growth and nutrients uptake of *Dendrocalamus strictus* (Roxb.) Ness under field conditions. *Anusandhan* **1**: 53-62. (ISBN: 978-81-910874-2-0).
  22. Meghvansi, M. K., **Prasad, K.** and Mahna, S. K. 2005. Identification of pH tolerant *Bradyrhizobium japonicum* strains and their symbiotic effectiveness in soybean (*Glycine max* (L.) Merr.) in low nutrient soil. *African Journal of Biotechnology* **4(7)**: 663-666. (ISSN: 1684-5315) [Impact Factor (2013): 0.579, NAAS rating (2013): 6.0].
  23. **Prasad, K.** and Meghvansi, M. K. 2005. Interaction between indigenous *Glomus fasciculatum* (AM fungus) and *Rhizobium* and their stimulatory effect on growth, nutrient uptake and nodulation in *Acacia nilotica* (L.) Del. *Flora and Fauna* **11(1)**: 51-56. (ISSN: 0971-6920). [NAAS rating (2013): 3.4].
  24. **Prasad, K.** 2006. Impact of arbuscular mycorrhizal fungus (*Glomus fasciculatum*) and phosphate solubilizing bacterium (*Pseudomonas striata*) on growth and nutrient status of *Azadirachta indica* L. *Mycorrhiza News*, **18(2)**: 10-12. (ISSN: 0970-695X).
  25. Harwani, D. Meghvansi, M. K., **Prasad, K.** Mahna, S. K. and Werner, D. 2006. Stimulatory effect of adonitol on the redifferentiation potential of soybean root nodules bacteroids. *Current Science* **90(11)**: 1474-1475. (ISBN: 81-208-1784-2). [Impact Factor (2007): 0.800; NAAS rating (2012): 7.8].
  26. **Prasad, K.,** Meghvansi, M. K., Harwani, D. Mahna, S. K. and Werner, D. 2006. Distribution of arbuscular mycorrhizal fungi in soybean (*Glycine max* (L.) Merrill) rhizosphere. *Mycorrhiza News* **17(4)**: 14-17. (ISSN: 0970-695X).

27. **Prasad K.** 2007. Improvement in in Bioavailability of Nutrition and Bio mass production to *Azadirachta indica* (Neem) by Arbuscular Mycorrhizal Symbiosis - *Journal of Basic and Applied Mycology* **6(I& II)**: 96- 101. (ISBN: 978-3-8454-3764-4). (Impact Factor: 1.887)
28. Meghvansi, M. K., **Prasad, K.**, Harwani, D. and Mahna, S. K 2008. Response of soybean cultivars towards inoculation with three Arbuscular Mycorrhizal Fungi (AMF) and *Bradyrhizobium japonicum* in alluvial soil. *European Journal of Soil biology* **44**: 316-323. [Elsevier, AMSTERDAM], (ISSN: 1164-5563) [Impact Factor (2009): 2.29; NAAS rating (2013): 7.9].
29. **Prasad, K.** and Meghvansi, M. K. 2009. Legume Rhizobia Technology: Aspects and prospects. *Amravati University Research Journal* **IV (1)**: 1-13. (ISBN: 978-81-313-1316-9).
30. **Prasad, K.** 2010. Responses of dual inoculation of arbuscular mycorrhizal fungi on the biomass production, phosphate, roots and shoots phenol concentrations of *Terminali arjuna* under field conditions, *Mycorrhiza News* **22(2)**: 12-27. (ISSN 0970-695X).
31. Meghvansi, M. K., **Prasad, K.**, Mahna, S. K. 2010. Symbiotic potential, competitiveness and compatibility of indigenous *Bradyrhizobium japonicum* isolates to three soybean genotypes of two distinct agro-climatic regions of Rajasthan, India. *Saudi Journal of Biological Sciences* **17**: 303–310. [Elsevier, AMSTERDAM], [Impact factor: 2.13 (2010),Included in Top 25 hottest articles of Science Direct].
32. **Prasad, K.** 2011. Effect of *Glomus intraradices* AM fungi on the shoot dry matter, seed dry yield, and nitrogen and phosphorus uptake of soybean (*Glycine max* (L.) Merrill) inoculated with cultivar-specific *Bradyrhizobium japonicum*. *Mycorrhiza News* **23(3)**: 13-18. (ISSN: 0970-695X).
33. **Prasad, K.** Meghvansi, M. K and Khan, A. A. 2011. Incidence of arbuscular mycorrhizal fungi (AMF) in tree species in arid zones of Ajmer region of Rajasthan. *Mycorrhiza News* **22(4)**: 12-15. (ISSN: 0970-695X).
34. **Prasad, K.** and Meghvansi, M. K. 2011. Screening of temperature tolerant strains of *Bradyrhizobium japonicum* for improvement of soybean cultivation in tropical soils. *Advanced Scholars* **1(3)**: 1-5. (ISBN 0-87933- 380-4).
35. **Prasad, K.** 2011. Interaction between arbuscular Mycorrhizal fungus (*Glomus fasciculatum*) and rhizospheric fungi in *Saccharum officinarum* L. *Amravati University Research Journal* (5): 53-65. (ISBN No. 978-81-313-1316-9).
36. Mishra, R. K. **Prasad, K.**, Pandey, S and Gupta, R. P. 2013. Evaluation of Garlic Accessions for Growth, Yield, Quality and Resistance to Stemphylium Blight Disease in Northern India. *Vegetos* **26(2)**: 291-296. DOI: 10.5958/j.2229-4473.26.2.087 (ISSN 0970-4078) [Impact Factor (2013): 0.03; NAAS rating (2013): 6.02].
37. **Prasad, K** 2015. Biofertilizers: A new dimension for agriculture and environmental development to improve production in sustainable manner. *Journal of Basic and Applied Mycology* **11(1& II)**: 5-13 (ISSN:0 972-7167). [Impact Factor- 1.887]
38. **Prasad, K.** 2017. Arbuscular Mycorrhizal fungi associated with vegetable crops in arid region of Rajasthan, India" submitted in the *Journal of Basic and Applied Mycology* **13(1&II)**: [Impact Factor- 1.887]

39. **Prasad, K.,** Warke, R. V. and Khadke, K. 2019. Management of soilborne pathogens to improve production of pulses using organic Technologies for sustainable agriculture. *International Journal of Research and Analytical Reviews* **6(2)**: 82-101. [Impact Factor: 5.6].
40. **Prasad, K.** 2020. Positive Importance of Arbuscular Mycorrhizal Fungi for Global Sustainable Agriculture and Environment Management for Green Technology. *Current Investigations in Agriculture and Current Research* **9(2)**: 1182-1184. DOI: 10.32474/CIACR.2020.09.000306. [Impact Factor: 2.6].
41. **Prasad, K.** 2021. Immunity Booster Activity of Lamb's Quarters: Nutritive Value and Economic Importance. *Journal of Biogeneric Science and Research* **6(5)**: 1-4. DOI: 10.46718/JBGSR.2020.06.000160. [Impact Factor: 1.024].
42. **Prasad, K. 2021.** Impact of Biological Fertilizer Arbuscular Mycorrhizal Fungi and Conventional Fertilizers Mobilization on Growth, Yield, Nutrients Uptake, Quercetin and Allin Contents in Allium Crops Cultivation under Field Conditions in Semi-Arid Region of India. *South Asia Journal of Experimental Biology* **11(1)**: 15-26. ISSN: 2230-9799 **[Impact Factor: 0.765, NAAS: 4.79]**.
43. **Prasad, K. 2021.** Effect of Dual inoculation of arbuscular mycorrhiza fungus and cultivar specific *Bradyrhizobium Japonicum* on the growth, yield, chlorophyll, nitrogen and phosphorus contents of Soybean (*Glycine Max* (L.) Merrill.) Grown on Alluvial Soil. *Journal of Innovation in Applied Research* **4(1)**: 1-12. ISSN: 2581-4206 [Impact Factor:].
44. **Prasad, K. 2021.** Influence of arbuscular mycorrhizal fungal biostimulants and conventional fertilizers on some solanaceous crops for growth, productivity and nutrient stoichiometry under field conditions in semi- arid region of Maharashtra, India. *Journal of Experimental Biology and Agricultural Sciences* **9(1)**:75-86. DOI: [http://dx.doi.org/10.18006/2021.9\(1\).75.86](http://dx.doi.org/10.18006/2021.9(1).75.86) [Impact Factor: 0.665, NAAS: 4.79].
45. **Prasad, K. 2021.** Arbuscular mycorrhizal fungi and plant collaborations influences ecology and environmental changes for global sustainable development. *Journal of Ecology and Natural Resources* **5(1)**: 1-16. DOI: 10.23880/jenr-16000231 [Impact Factor: 2.454].
46. **Prasad, K. 2021.** Diversification of Glomeromycota form arbuscular mycorrhizal fungi associated with vegetable crops cultivated underneath natural ecosystems in arid region of Rajasthan, India. *Current Investigations in Agriculture and Current Research* **9(2)**: 1205-1212. DOI: 10.32474/CIACR.2021.09.000310. [Impact Factor: 2.6].
47. **Prasad, K. 2021.** Advantages and nutritional importance of organic agriculture produces food on human, soil, and environmental health in modern lifestyle for sustainable development. *Aditum Journal of Clinical and Biomedical Research* **5 (2)**: 1-7. DOI: <http://doi.org/04.2021/1.1006>. [Impact Factor: 1.5].
48. **Prasad, K. 2021.** Potential Impact of Seed Coating with Beneficial Microorganisms to Preciseness Sustainable Organic Agriculture for Quality Nutritive Food Production for Modern Lifestyle, Improve Soil and Environmental Health towards Green Technology. *Aditum Journal of Clinical and Biomedical Research*. **2(4)**:1-9. DOI: <http://doi.org/06.2021/1.1043>. DOI: <http://doi.org/06.2021/1.1043>. [Impact Factor: 1.5].
49. **Prasad, K.** 2021. Stimulation Impact of Rhizosphere Microbe's Glomeromycota AM Fungi and Plant Growth Promoting Rhizobacteria on Growth, Productivity, Lycopene, B-Carotene, Antioxidant Activity and Mineral Contents of Tomato beneath Field Condition Cultivated in Western Ghats Covering Semi-Arid Region of Maharashtra, India. *Journal of Bioscience & Biomedical Engineering*. **2(3)**: 1-14. [Impact Factor:3.185].

50. **Prasad, K.** 2021. Glycoprotein Producing AM Fungi lifecycle and Potential Role in Agricultural Plant Lifespan and Global Environmental Changes for Sustainable Green Technology. *Journal of Ecology and Natural Resources*. 5 (2): 1-18. DOI:10.23880/jenr-16000250. [Impact Factor:1.25].
51. **Prasad, K., Khare, A. and Rawat, P.** 2021. Glycoprotein Producing AM Fungi Intensification Organic Carbon and Alteration Microbial Community in Rhizosphere Ecosystem, Potential Utilization for Crops Improvement and Changing Global Environment towards Sustainable Development. *Aditum Journal of Clinical and Biomedical Research*. 3(1):1-16. DOI: <http://doi.org/07.2021/1.1051>. [Impact Factor:1.5].
52. **Prasad, K.** 2021. Microbial Functions Improve Agricultural Soil Health, Quality Productivity and Environmental Sustainability for Future Generation. *Gulf Journal of Molecular Biology (GJMB)*. 1(1): 24-37. [Impact Factor: 0.47].
53. **Prasad, K., Khare, A. and Rawat, P.** 2021. Quality and Yield Performance of Turmeric (*Curcuma longa* linn.) in Response to Glycoprotein Producing Arbuscular Mycorrhizal Fungal Biostimulant and Traditional Fertilizers Utilization. *Current Investigations Agriculture and Current Research*. 9(5) :1291-1298. DOI: 10.32474/CIACR.2021.09.000323. [Impact Factor:0.03].
54. **Prasad, K., Khare A and Rawat P.** 2021. Glycoprotein Producing AM Fungi Intensification Organic Carbon and Alteration Microbial Community in Rhizosphere Ecosystem, Potential Utilization for Crops Improvement and Changing Global Environment towards Sustainable Development. *Aditum Journal of Clinical and Biomedical Research*. 3(1):1-16. DOI: <http://doi.org/07.2021/1.1051>. [Impact Factor:1.5].
55. **Prasad, K.** 2021. Potential Impact of Seed Coating with Beneficial Microorganisms to Meticulousness Sustainable Organic Agriculture for Quality Nutritive Food Production for Modern Lifestyle, Improve Global Soil and Environmental Health towards Green Technology. *Aditum Journal of Clinical and Biomedical Research*. 2(4):1-9. DOI: <http://doi.org/06.2021/1.1043>. DOI: <http://doi.org/06.2021/1.1043>. [Impact Factor: 1.5].
56. **Prasad, K.** 2022. Stimulation Effect of Rhizospheric Microbes' Plant Growth Promoting Rhizobacteria. Glycoprotein Producing AM Fungi and Synthetic Fertilizers Application on Growth, Yield, Nutrient's acquisition and Alliin Content of Garlic Cultivation Under Field Conditions in Southeast Region of Rajasthan, India. *Advances in Earth and Environmental Science*. 3(2): 1-15. [Impact Factor: 3.119].
57. **Prasad, K.** 2022. Utilization of Siderophore Producing Plant Growth Promoting Rhizobacteria to Improve Crucial Nourishment and Management of Phytopathogen in Cash Crops for Sustainable Development. *American Journal of Sciences and Engineering Research*. 5(2): 15-23. [Impact Factor: 2.025].
58. **Prasad, K.** 2022. Influence of PGPR, AM Fungi and Conventional Chemical Fertilizers Armament on Growth, Yield Quality, Nutrient's translocations, and Quercetin Content in Onion Crop Cultivated in Semi-Arid Region of India. *Open Access Journal of Microbiology & Biotechnology (OAJMB)*: 7(1): 1-18. DOI: 10.23880/oajmb-16000214. [Impact Factor:1.5828].
59. **Prasad, K.** 2022. Productivity and Quality of Horticultural Crop Capsicum (*Capsicum Annum* L) Through Co-Inoculation of Novel Microbial Consortium Plant Growth Promoting Rhizobacteria, Glycoprotein Producing AM Fungi and Chemical Fertilizer under Low-Cost Protected Cultivation. *Open Access Journal of Microbiology &*

- Biotechnology (OAJMB)*. 7(2):1-18. DOI: 10.23880/oajmb-16000223. [Impact Factor: 1.5928].
60. **Prasad, K.** Growth and Yield Response of Indica Paddy Cultivars Cultivated Through Organic Agriculture System of Paddy Intensification and Conventional Technique under Wetland Conditions in East Uttar Pradesh, India. *International Journal of Scientific Engineering and Applied Science (IJSEAS)*: 8(5):109-128. [Impact Factor:3.466].
  61. **Prasad, K.** and Yadav, K. 2022. Restoration of Contaminated Agricultural Soils Through Utilization of Beneficial Microbes for Global Future Generation. *Aditum Journal of Clinical and Biomedical Research*. 4(3): 1-8. DOI: <http://doi.org/03.2022/1.1076>. [Impact Factor: 1.5].
  62. **Prasad, K.** 2022. Nano-Nutrients and their Dynamic role in Global sustainable agriculture for future Generations. *Journal of Agriculture Research Pesticides and Biofertilizers*.4(2): 1-3. DOI: <http://doi.org/10.2022/1.1081>. [Impact Factor:0.56].
  63. **Prasad, K.** 2022. Utilization of Siderophore Producing Plant Growth Promoting Rhizobacteria to Improve Crucial Nourishment and Management of Phytopathogen in Cash Crops for Sustainable Development. *American Journal of Sciences and Engineering Research* E-ISSN -2348 – 703X, 5 (2):15-23. [Impact Factor:2.025].
  64. **Prasad, K.** 2022. Glycoprotein Producing AM Fungi Lifestyle and Energetic Role in Global Sustainable Agriculture to Green Technology for Future Generation. 7th Asian PGPR International Conference for Sustainable Agriculture held in Kuala Lumpur, Malaysia on 23-26 August 2022. Pp.120-121.
  65. **Prasad, K.** 2022. Potential Impression of Arbuscular Mycorrhizal Fungi on Agricultural Growth, Productivity, and Environment Toward Global Sustainable Development for Green Technology. In: *Applied Mycology, Fungal Biology*, A. C. Shukla (ed), Springer Nature Switzerland AG, pp. 111-136.
  66. **Prasad, K.** 2023. Glycoprotein Producing AM Fungi and their Potential role in Sustainable Agriculture by Improving Soil Health, Plant Broad-mindedness, Crop Productivity and Quality for Maintaining Steady Population. 8th Asian PGPR Conference on Beneficial Microbes for Plant Health Management held on College of Horticulture, UHS Campus, GKVK, Bengaluru on 19-21 September 2023. P. 287.
  67. **Prasad, K.** 2023. Glycoprotein Producing AM Fungi Associated with Vegetable Crops Cultivated in the Western Ghats Covering the Semi-Arid Region of Maharashtra, India. *Mycorrhiza News*, 34 (4): 1-10.
  68. **Prasad, K.** 2023. Symbiotic Endophytes of Glomalin AM Fungi, Rhizobium, and PGPR Potential Bio stimulants to Intensive Global Food Production for Sustainable Agriculture System. *Journal of Microbes and Research*, 2(2):1-23.
  69. **Prasad, K.** 2023. Role of Microbial Technology in Agriculture by Improving Soil Health, Plant Broad-Mindedness, Crop Quality and Productivity for Sustaining Rapid Population. *Life Science: An International Journal*, 1(1): 87-105.
  70. **Prasad, K.** 2023. Advantages of Beneficial Microbes for Bioremediation of Adulterated Global-Cultivated Soils. *Innovare Journal of Life Sciences*, 11: 1-6. [Impact Factor: 4.936].
  71. **Prasad K.** 2023. Conserve Paper and Trees- A Vital Role in Protect Environmental Degradation and Climate Change in Worldwide Increasing Population. *Biodiversity Online Journal*. 4(3): 000587. DOI: 10.31031/BOJ.2023.04.00058



72. **Prasad K**, Pandey RK, Rajasekaran S, Dhingra RK. 2024. Tea Production, Composition, Consumption and Prospectives as an Antioxidant and Antimicrobial Beverage for Worldwide Human Community. *Journal of Agriculture & Forestry Research*, 3(1):40-60.
73. **Prasad K**. 2024. Arbuscular Mycorrhizal Fungi Advantageous Impact on Sustainable Agroecosystems and Bridge between Plants, Soils, and Humans Health. *Journal of Life Sciences Research and Reviews*, 2(3):1-4.
74. **Prasad K**, Rajasekaran S, Pandey, RK, Rajat K. 2024. Multiple Functions of Microbes to Improve Food and Soil Nutrition in Support of Environment Management to Maintain Global Agricultural Practices. *Journal of Energy and Environmental Science*, 2(1):000114.
75. **Prasad K**, Rajasekaran S. 2024. Mycorrhizae Fungi: A Dynamic Microsymbiont for Sustainable Agriculture for Dramatically Increasing Population. In: 9<sup>Th</sup> Asian PGPR India Chapter Beneficial Microbes for Sustainable Agriculture, Ponmurugan P, Anita A, Reedy MS (eds.), Excel India Publisher, New Delhi pp.431-446.
76. **Prasad K**, Pandey RK. 2024. Reduce the Effects of Drought on *Lycopersicon esculentum* Growth and Productivity by Using Potential Combination of PGPR (*Rhizophagus irregularis* and *Pseudomonas fluorescens*). In: 9<sup>Th</sup> Asian PGPR India Chapter Beneficial Microbes for Sustainable Agriculture, Ponmurugan P, Anita A, Reedy MS (eds.), Excel India Publisher, New Delhi pp.425-430.
77. **Prasad K**. 2024. Occurrence and interactions of arbuscular mycorrhizal fungi (*Rhizophagus fasciculatus*) and rhizospheric fungi in *Saccharum officinarum* L. *Tropical Plants*, 3: e03. Doi.10.48130/tp-0024-0035.
78. **Prasad K**. 2024. Characterization, Selection and Evaluation of Temperature Tolerant *Bradyrhizobium Japonicum* Strains to Promote Soybean Cultivation in Tropical Soils Conditions. *Sun Text Review of Biotechnology*591):1-5.

#### **Full Length Papers Published in International and National Peer-reviewed Books Chapter**

1. **Prasad, K**. 1998. Application of vesicular arbuscular mycorrhizae (*Glomus fasciculatum*) and *Rhizobium* on biomass production of *Acacia nilotica* in saline and forest soil. In: *Biofertilizers and Biopesticides*. A.M. Deshmukh (ed.), *Techno science publications*, Jaipur, pp. 27-33. (ISBN: 81:900553-5-6).
2. **Prasad, K**. and Rajak, R. C. 1999. Recent advances in Mycorrhizal taxonomy: Morphological and molecular criteria. In: *Microbial Biotechnology for Sustainable*

- Development and Productivity*. Prof. S. K. Hasija Festschrift. R. C. Rajak (ed.), Scientific Publishers (India), Jodhpur, pp. 62-72. (ISBN: 81-7233-225-4).
3. **Prasad, K.** 2000. Occurrence of vesicular arbuscular mycorrhizal fungi in some cultivated crop plants. In: *Microbes: Agriculture, Industry and Environment*. D. K. Maheshwari, R. C. Dubey, G. Prasad and Navneet (eds.), Bishen Singh Mahendra Pal Singh Publishers, Dehra Dun, pp. 65-69. (ISBN: 10- 812110209X, ISBN: 13-9788121102094, 978-8121102094).
  4. **Prasad, K.** and Rajak, R. C. 2000. Biotechnological application of mycorrhizae in reclamation of mined dumps. In: *Integrated Management of Plant Resources*. M. K. Rai, Ajit Varma and R. C. Rajak (eds.), Scientific Publishers (India) Jodhpur, pp.283-292. (ISBN: 81-7233-410-9).
  5. Gautam, S. P. and **Prasad, K.** 2001. VA mycorrhiza – Importance and biotechnological application. In: *Innovative Approaches in Microbiology*. D. K. Maheshwari and R. C. Dubey (eds.), Bishen Singh Mahendra Pal Singh, Dehradun, India, Pp.83-114. (ISBN: 10- 812110209X).
  6. **Prasad, K.** and Rajak, R. C. 2001. Microbes and wasteland management: Challenge ahead. In: *Wasteland Management and Environment*. A. K. Roy and S. K Varma (eds.), Scientific Publishers (India) Jodhpur, pp-27-39. (ISBN: 81-7233-236-X).
  7. **Prasad, K.** and Bilgrami, R. S. 2002 Impact of *Glomus fasciculatum* (AMF) and phosphates on biomass yield and chlorophyll contents of *Saccharum officinarum* L. In: *Bioinoculants for Sustainable Agriculture and Forestry*. S. M. Reddy, S. Ram Reddy, M. A. Singinacharya and S. Girisham (eds.), Scientific Publishers (India) Jodhpur, pp. 53-60. (ISBN: 81-7733-304-2).
  8. **Prasad, K.** and Rajak, R. C. 2002. Management of plant pests through biological entities: Possibilities and prospects. In: *Plant Pest Management*. P. C. Trivedi (ed.), Aavishkar Publishers, Distributors, Jaipur, pp. 75-99. (ISBN: 13- 9788179100028, 978-8179100028).
  9. **Prasad, K.** 2002. Application of arbuscular mycorrhizae fungal biofertilizer on biomass yield and nutrients uptake of *Azadirachta indica*. In: *Recent Trends in Biotechnology*. V. S. Hari Kumar (ed.), Agrobios (India) Publication, Jodhpur, Pp.73-78. (ISBN: 81-7754-157-9).
  10. **Prasad, K.** 2002. Effect of arbuscular mycorrhizae on biomass yield, uptake and translocation of nitrogen, phosphorus and potassium in *Azadirachta indica* L. In: *Frontier of Microbial Biotechnology and Plant Pathology*. C. Manoharachary ,D. K. Purohit, S. Ram Reedy, M. A. Singaracharya and S. Girisham (eds.), Scientific Publishers (India) Jodhpur, pp-187-191. (ISBN: 81-7233-314-5).
  11. **Prasad, K.** 2003. Interaction effect of native *Glomus fasciculatum* AM Fungus and *Rhizobium* on *Prosopis juliflora*. In: *Advance in Agricultural Biotechnology*. V. S. Harikumar (ed.), Regency (India) Publication, New Delhi, pp.103-112. (ISBN: 81-87498-74-9, ISBN: 10-8187498749, ISBN 13: 9788187498742).

12. Mahna, S.K., **Prasad, K.**, Vedi, S. and Meghavansi, M.K. 2003. Isolation, authentication and efficiency of seven indigenous Bradyrhizobial strains of Rajasthan. In: *Bioscience: Advances, Impact and Relevance* V.P.Singh (ed.), Bareilly, pp. 33-37.
13. **Prasad, K.** 2003. Arbuscular mycorrhizal fungal association and root colonization in some important tree species. In: *Plant Biotechnology*, A. Sadanandam, (ed.) B.S. Publications, Hyderabad, pp. 222-226. (ISBN: 81-263- 0994-6, 2945).
14. **Prasad, K.** and Kaushik, S. 2004. Ecology, Physiology, Biochemistry and Taxonomy of Arbuscular Mycorrhizal fungi. In: *Biological Diversity: Current Trends*, Prof. R.C. Rajak festschrift volume. S. P. Gautam, Y. K. Bansal and A. K. Pandey (eds.), Shree Publication & Distributors, New Delhi, pp.134-141. (ISBN: 81-7035-448-X).
15. **Prasad, K.**, Meghvansi, M. K. and Choudhary, K. K. 2005. Arbuscular mycorrhizal symbiosis: An overview of research and extension needs. In: *The Mycorrhizae: Diversity, Ecology, and Application*. M. Tiwari, and S.C. Sati (eds.) Daya publishing House, New Delhi, pp. 87-101. (ISBN: 10-81-7035-516-8, ISBN: 13-978-81-035-516-8).
16. **Prasad, K.**, A K. Pandey and Rajak, R.C. 2005. Ectomycorrhizal diversity and its role in the production of forest plants. In: *Frontiers in Plant Sciences*, K. G .Mukherjee, K. V .B .R. Tilak, S. M. Reddy, L .V. Gangawane, P. Prakash and I. K. Kunwar (eds.), I. K. International Pvt.Ltd. New Delhi, India, pp.617-642. (ISBN: 9789380026886).
17. Mahna, S. K., Meghvansi, M. K., **Prasad, K.**, Harwani, D. and Werner, D. 2006. Screening of Efficient *Bradyrhizobium japonicum* strains for the improvement of soybean production. In: *Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology*. G. Bagyanarayana, B. Bhadraiah and I.K. Kunwar (eds.), B. S. Publications, Hyderabad, pp. 267-277. (ISSN: 10- 8178000814).
18. **Prasad, K.** 2006. Influence of indigenous VAM fungus (*Glomus fasciculatum*) and *Rhizobium* on growth, nutrient uptake and nodulation in *Acacia nilotica*. In: *Mycorrhiza*. Anil Prakash and V. S. Mehrotra (eds.), Scientific Publishers (India), Jodhpur, pp.139-144. (ISBN: 8-: 900553-5-6).
19. **Prasad, K.** and Bilgrami, R. S. 2006. Impact of *Glomus fasciculatum* and potash on biomass yield and sucrose contents of *Saccharum officinarum* L. In: *Mycorrhiza*. Anil Prakash and V. S. Mehrotra (eds.), Scientific Publishers (India), Jodhpur, pp.45-50. (ISBN: 81- 900553-5-6).
20. Gautam, S. P. and **Prasad, K.** 2006. Influence of *Glomus macrocarpum* on *Dendrocalamus strictus*. In: *Mycorrhiza*. Anil Prakash and V. S. Mehrotra (eds.), Scientific Publishers (India), Jodhpur, pp.219-222. (ISBN: 81- 900553-5-6).
21. **Prasad, K.**, Kaushik, S. and Rajak, R.C.2006. Performance of arbuscular mycorrhizal biofertilizer and their role in sustainable development and productivity. In: *Mycorrhiza*. Anil Prakash and V.S. Mehrotra (eds.), Scientific Publication (India) Jodhpur, pp.281-289. (ISBN: 81- 900553-5-6).
22. **Prasad, K.** and Bilgrami, R. S. 2007. Effect of *Glomus fasciculatum* AM fungus and nitrogen's on biomass yield, chlorophyll, juice and sucrose contents of *Saccharum officinarum* L. In. *Modern Trends in Microbial Diversity*. R. C. Ram and Asha Sinha (eds.) Daya Publishing House, New Delhi pp.224-233.(ISBN: 0971-6920).

23. Meghvansi, M. K., Choudhary, K. K. and **Prasad, K.** 2008. Arbuscular mycorrhizal symbiosis: An overview of research and extension needs. In: *The Mycorrhizae: Diversity, Ecology, and Application*. M. Tiwari and S.C. Sati (eds.) Daya Publishing House, Delhi pp. 87-101. (ISBN: 10-81-7035-516-8; ISBN: 13-978-81-035-516-8).
24. Harwani, D., Choudhary, P., Dhaker, S., **Prasad, K.** and Mahna, S.K. 2009 Tripartite Symbiotic Association: Legume-Rhizobia-Mycorrhiza - A Review In: *Biotechnology for Agricultural Microorganisms –An Agro-Industry Approach*. D. K. Maheshwari and R. C. Dubey (eds.), I.K. International Pvt. Ltd. New Delhi, pp.406-435. (ISBN: 9789380026886).
25. **Prasad, K.** 2010. Ectomycorrhizal Symbiosis: Possibilities and Prospects In: *Progress in Mycology*, M. K. Rao and G. Kovics (eds.), **Springer Science, The Netherlands** and Scientific Publisher, Jodhpur, India pp. 290-308. (ISBN: 978-90-481-3712-1, e-ISBN 978-90-481-3713-8).
26. **Prasad, K.** and Pandey, A. K. 2012. Mycorrhizal symbiosis: A new dimension for agriculture and environmental development to improve production in sustainable manner In: *Microbial Diversity and Function*, D. J. Bagyaraj, K. V. B. R. Tilak and H. K. Kehri (eds.), New Delhi, New India Publishing Agency, New Delhi, India. Pp.389-402. (ISBN10: 978-93-81450-10-9).
27. **Prasad, K.** 2013. Arbuscular mycorrhizal fungus plays a major role in agriculture and natural ecosystems to improve production in sustainable manner In: *Microbes and Sustainable Plant Productivity*, Jamaluddin and A. K. Singh (eds.), Scientific Publication (India) Jodhpur, pp. 113-138. (ISBN: 978- 81-7233-857-2).
28. Siddiqui, S., Alrumman, S. A., Meghvansi, M. K., Chaudhary, K. K., Mona, K. and **Prasad, K.** 2015. **Role of Soil Amendment with Micronutrients** in Suppression of Certain Soil-Borne Plant Fungal Diseases: A Review In: *Organic Amendments and Soil Suppressiveness in Plant Disease management, Springer Soil Biology* 46. Mukesh K. Meghvansi and Ajit Varma (eds.), **Springer International Publishing Switzerland**, pp.363-380. ISBN: 978-3-319-23074-0; Series ISSN: 1613-3382
29. Khan, M. H., Meghvansi, M. K., Gupta, R., Choudhary, K. K., **Prasad, K.**, Siddiqui, S., Veer, Vijay and Varma, A. 2015. Combining application of Vermiwash and arbuscular mycorrhizal fungi for effective plant disease suppression. In: *Organic Amendments and Soil Suppressiveness in Plant Disease management, Springer Soil Biology* 46. Mukesh K. Meghvansi and Ajit Varma (eds.), **Springer International Publishing Switzerland**, pp.479-493. ISBN: 978-3-319-23074-0; Series ISSN: 1613-3382
30. **Prasad, K.** 2017. Biology, Diversity and Promising Role of Mycorrhizal Entophytes for Green Technology. In: *Endophytes: Biology and Biotechnology* -Volume 1, Series *Sustainable Development and Biodiversity* 15, D.K. Maheshwari (ed.) Springer International Publishing AG, Switzerland. pp. 267-301. ISBN 978-3-319-66540-5 <https://doi.org/10.1007/978-3-319-66541-2-11>
31. Khan, M.H., Meghvansi, M.K., **Prasad, K.**, Siddiqui, S. and Ajit Varma, A. 2017 Arbuscular mycorrhizal symbiosis and nutrient resource limitation: predicting the linkages and effectiveness of the partnership. In: *Mycorrhiza - Nutrient Uptake, Bio*

- control, Ecorestoration*. Varma et al. (eds.), Springer International Publishing AG. pp. 115-130 <https://doi.org/10.1007/978-3-319-68867-1-6>.
32. **Prasad, K.** 2022. Potential Impression of Arbuscular Mycorrhizal Fungi on Agricultural Growth, Productivity, and Environment Toward Global Sustainable Development for Green Technology. In: *Applied Mycology*. Springer Nature, Switzerland AG. A. C. Shukla (ed.), pp. 111-136.
  33. **Prasad, K.**, Khare, A., and Rawat, P. 2022. Glomalin Arbuscular Mycorrhizal Fungal Reproduction, Lifestyle and Dynamic Role in Global Sustainable Agriculture for Future Generation. In: *Fungal Reproduction and Growth*. Intech Open. Pp.1-22. DOI: <http://dx.doi.org/10.5772/intechopen.103092>.
  34. **Prasad, K.** 2022. Global Novel Coronavirus Pandemic, diagnosis and management: Current Situation and Future Perspectives. In: Global Novel Coronavirus Pandemic, diagnosis, and management: *Current Situation and Future, Perspectives*. Science and Technology, Uttarakhand. pp. 207-223.
  35. **Prasad, K.** and Yadav, K. 2023. Global restoration of contaminated agricultural soils through the utilization of potential microbes for the future generation. In: *Integrative Strategies for Bioremediation of Environmental Contaminants*, Volume Two, Avenues to a Cleaner Society. Riti Thapar Kapoor and Maulin P. Shah eds. Academic Press, Elsevier, U. K. pp. 85-97.
  36. **Prasad, K.** and Singh, AK. 2023. Utilization of Sustainable 7 Biochar Approach to Improve Contaminated Agricultural Soils for Plant Growth Promotion. In: *Designer Biochar Assisted Bioremediation of Industrial Effluents- A low-cost Sustainable Green Technology*. Riti Thapar Kapoor and Maulin P. Shah eds. CRC Press, Taylor, and Francis Group. PP. 107-119.
  37. **Prasad, K.** and Bilgrami, R. S. 1995. Impact of VAM and phosphates on biomass yield and sucrose content of *Saccharum officinarum* L. *Proc. of Third National Conference on Mycorrhizae: Biofertilizers for the Future*. A. Adholeya and S. Singh (eds.), Tata Energy Research Institute, New Delhi, pp. 465-470. (ISBN: 978-1- 57808).
  38. Bilgrami, R.S. and **Prasad, K.** 1998. Biocontrol of wilt of *Saccharum officinarum* and enhancement in biomass and sucrose content by VAM. **International Congress Proc."** 7th International Congress of Plant Pathology", Edinburgh, U.K. pp17-27.
  39. **Prasad, K.** 2000. Bio control of rhizospheric micro flora of sugarcane plant through VAM. *Proc. Indian Phytopathological Society, Golden Jubilee International Conference on Integrated Plant Disease Management for Sustainable Agriculture*, Volume I, Division of Plant Pathology, IARI, New Delhi, pp. 345-347.
  40. **Prasad, K.** 2002. Mycorrhizae and their importance in agriculture and forestry. *Proceeding on National Conference on Prospect of Environmental Research in 21<sup>st</sup> Century*. R. S. Singh (ed.), Daya Publishing House, New Delhi, pp356-359.
  41. **Prasad, K.** 2005. Interaction between arbuscular mycorrhizal fungi (*Glomus fasciculatum*) and rhizospheric fungi in *Saccharum officinarum* L. *Proc. International Congress "Rhizosphere 2004-Perspective and Challenges-A Tribute to Lorenz Hiltner*, A. Hartman, M. Schmid, W. Wenzel and Ph. Hinsinger (eds.), Munich, Germany, p.95.

42. Mahna, S.K., **Prasad, K.**, Meghvansi, M. K. and Harwani, D. and Werner, D. 2005. Efficiency of *Bradyrhizobia* in different soybean cultivars in pots filled in with rhizospheric soils of soybean/ non legume cultivated land. In: Proc. **International Congress “Rhizosphere 2004-Perpectives and Challenges-a Tribute to Lorenz Hiltner”** A. Hartman, M. Schmid, W. Wenzel and Ph. Hinsinger (eds.), Munich, Germany, p.286.
43. Meghavansi, M. K., **Prasad, K.**, Mahna, S.K. 2012. Investigation on *Bradyrhizobium* diversity of Rajasthan: A case study of screening stress tolerant stress for improving Soybean productivity. Proceeding of UGC sponsored National Conference on Biodiversity Depletion: Causes, Consequences and Solutions. K. L. Meena (ed.), Rajasthan, India. pp.67-81

#### **Research Papers Published in National and International Conference/Seminar / Symposium**

1. **Prasad. K** and Bilgrami, R. S. 1992. Incidence of VAM in six varieties of Sugarcane. Proc. 79<sup>th</sup> session, Ind. Sci. Cong. Assoc. Baroda, pp.36-37.
2. **Prasad, K.** and Bilgrami, R. S. 1993. Impact of VAM on level of sucrose in Sugarcane grown in amended soil. Proc. 80<sup>th</sup> session, Ind. Sci. Cong. Assoc., Goa, pp. 32-33.

3. **Prasad, K.** and Bilgrami, R. S. 1994. Impact of VAM and phosphorus on biomass of Sugarcane plant. *Proc. 81<sup>st</sup> session, Ind. Sci. Cong. Assoc.* Jaipur, pp.54-55.
4. **Prasad, K.** and Bilgrami, R. S. 1994. Effect of VAM on uptake of phosphorus by Sugarcane. *Proc. 81<sup>st</sup> session, Ind. Sci. Cong. Assoc.*, Jaipur, pp. 55-56.
5. **Prasad, K.** 1996. Physiological changes in juice and sucrose contents (Po1. %) in *Saccharum officinarum* L. grown in soil amended with VAM (*Glomus fasciculatum*) fungi and phosphates. *Proc. Indian bot. Soc.* 75: 5-6.
6. **Prasad, K.** 1996. Impact of VAM (*Glomus fasciculatum*), *Rhizobium* and FYM on biomass yield of *Acacia nilotica* L. plant. *Proc. 84<sup>th</sup> session, Ind. Sci. Cong. Assoc.*, New Delhi, p. 14.
7. **Prasad, K.** 1996. Establishment of nursery technology through VAM, *Rhizobium* and FYM on better biomass yield of *Prosopis juliflora*. *Proc. 84<sup>th</sup> session, Ind. Sci. Cong. Assoc.*, New Delhi, p. 15.
8. Gautam, S. P. and **Prasad, K.** 1997. VA Mycorrhiza: Importance and biotechnological application. *Proc. Ind. Phytopath. Soc.*, **National Symposium** on "*The Biology of Plant Microbe Interactions*," Department of Bioscience, R. D. University, Jabalpur, 15-17 February, 1997, pp. 36-37.
9. **Prasad, K.** and Prasad, A. B. 1997. Biotechnological application of vesicular arbuscular mycorrhizal fungi, *Rhizobium* and FYM on biomass yield of *Dalbergia sissoo* L. *Proc. Ind. Phytopath. Soc.*, **National Symposium** on "*The Biology of Plant Microbe Interactions*", Department of Bioscience, R. D. University, Jabalpur, 15-17 February, 1997, pp. 68-69.
10. **Prasad, K.** and Bilgrami, R. S. 1997. Biotechnological application of VAM (*Glomus fasciculatum*) and phosphate on chlorophyll content of *Saccharum officinarum* L. *Proc. Ind. Phytopath. Soc.*, **National Symposium** on "*The Biology of Plant Microbe Interactions*," Department of Bioscience, R. D. University, Jabalpur, 15-17 February, 1997, pp. 70-71.
11. **Prasad, K.** 1997. Improvement of biomass yield of *Terminalia arjuna* L. through vesicular arbuscular mycorrhizal fungi (*Glomus fasciculatum*). *Proc. Ind. Phytopath. Soc.*, **National Symposium** on "*The Biology of Plant Microbe Interactions*", Department of Biological Science, R. D. University, Jabalpur, 15-17 February, 1997, p. 73.
12. **Prasad, K.** 1997. Biological control of rhizospheric microflora of *Saccharum officinarum* L. Plant through vesicular arbuscular mycorrhizal (*Glomus fasciculatum*) fungi. *Proc. Ind. Phytopath. Soc.*, **National Symposium** on "*The Biology of Plant Microbe Interactions*", Department of Biological Science, R. D. University, Jabalpur, 15-17 February, 1997, p. 77.
13. Rajak, R. C., **Prasad, K.** and Belapurkar, U. 1997. Ultra structure of vesicular arbuscular mycorrhizal fungal spore. *Proc. J. Indian bot. Soc.* 76: Twentieth all India **Botanical Conference**, pp. 22-23.
14. Gautam, S. P. and **Prasad, K.** 1997. Ultra structure of vesicular arbuscular mycorrhizal (VAM) fungal association in plant. *Proc. J. Indian bot. Soc.* 76: Twentieth all India **Botanical Conference**, pp. 23-24.

15. **Prasad, K.** 1997. Bio control of rhizospheric microflora of Sugarcane plant through VAM. *Proc. Ind. Phytopath. Soc., Golden Jubilee International Conference on "Integrated Plant Disease Management for Sustainable Agriculture"*, IARI, New Delhi, 10-15 November, 1997, p. 207.
16. **Prasad, K.** 1997. Application of vesicular arbuscular mycorrhizae (*Glomus fasciculatum*) and *Rhizobium* on biomass production of *Acacia nilotica* in saline and forest soil. *Proc. National Conference on "Frontiers in Biofertilizers and Biopesticides"*, Microbiological Society, Karad, 28-29 December, 1997.
17. Prasad, A. B. and **Prasad, K.** 1997. Vesicular arbuscular mycorrhizal fungi (VAMF) associated with *Prosopis juliflora* L. *Proc. J. Indian bot. Soc.*, 76: Twentieth all India **Botanical Conference**, 29-31 December, 1997, p. 20.
18. Bilgrami, R. S. and **Prasad, K.** 1997. Biotechnological application of vesicular arbuscular mycorrhizal fungi, particularly *Glomus fasciculatum* and phosphates on chlorophyll contents and biomass yield of *Saccharum officinarum* L. *Proc. J. Indian bot. Soc.*, 76 : Twentieth all **India Botanical Conference**, 29-31 December, 1997, pp. 20-21.
19. **Prasad, K.** 1997. Occurrence of vesicular arbuscular mycorrhizal fungi and their effect with singly and in combination with *Rhizobium* on certain forest tree species. *Proc. J. Indian bot. Soc.*, 76: Twentieth all **India Botanical Conference**, 29-31 December, 1997, pp. 21-22.
20. Ayachi, R., Gautam, S. P. and **Prasad, K.** 1997. Studies on yeast strains capable of growing on wheat grain flour. *Proc. J. Indian bot. Soc.*, 76: Twentieth all India **Botanical Conference**, 29-31 December, 1997, p. 29.
21. Prasad, K. 1998. Vesicular arbuscular mycorrhizal association and root colonization in some important tree species. *Proc. 85<sup>th</sup> session, Ind. Sci., Cong. Assoc.*, Hyderabad, p. 11.
22. **Prasad, K.** 1998. Biotechnological application of vesicular arbuscular mycorrhizal fungal biofertilizer on biomass yield and nutrients uptake of *Azadirachta indica* L. *Proc. 85<sup>th</sup> session, Ind. Sci. Cong. Assoc.*, Hyderabad, p. 12.
23. **Prasad, K.**, Shrivastava, P. and Tiwari, A. K. 1998. Interaction effects of vesicular arbuscular mycorrhiza (*Glomus fasciculatum*) and *Rhizobium* on *Prosopis juliflora* L. *Proc. International Symposium on "Ecology of Fungi"*, Goa University, Goa, 20-22 January, 1998.
24. **Prasad, K.** Shrivastava, P. and Tiwari, A. K., 1998. Ecological studies of vesicular arbuscular mycorrhizal fungi (VAMF) associated with some weed species. *Proc. International Symposium on "Ecology of Fungi"*, Goa University, Goa, 20-22 January, 1998.
25. **Prasad, K.** 1998. Arbuscular mycorrhizal spore types present in the root zone of *Acacia nilotica*. *Proc. National Research Seminar on "Bio-chemical Changes in Impact of Environment"*, R. D. Govt. P. G. College, Mandla, 30-31<sup>st</sup> July, 1998, p. 10.
26. **Prasad, K.** and Gautam, S. P. 1998. Effect of *Glomus macrocarpum* VAM form on the fiber strength properties of *Dendrocalamus strictus* under field conditions. *Proc. National Research Seminar on "Bio-chemical Changes in Impact of Environment"*, R. D. Govt. P. G. College, Mandla, 30-31<sup>st</sup> July, 1998. P. 10.



27. **Prasad, K.** and Rajak, R. C. 1998. Incidence of vesicular arbuscular mycorrhizae and their effect on certain forest trees species. *Proc. National Research Seminar* on "Bio-chemical Changes in Impact of Environment", R. D. Govt. P. G. College, Mandla, 30-31<sup>st</sup> July, 1998. P. 10.
28. Bilgrami, R. S. and **Prasad, K.** 1998. Impact of *Glomus fasciculatum* (VAM) and phosphates on biomass yield and chlorophyll contents of *Saccharum officinarum* L. *Proc. J. Indian bot. Soc.*, 77: Twenty first all India **Botanical Conference**, 24-26 October, 1998, p. 5.
29. **Prasad, K.** 1998. Mass propagation of *Azadirachta indica* through tissue culture. *Proc. J. Indian bot. Soc.*, 77: Twenty first all **India Botanical Conference**, 24-26 October, 1998, pp. 8-9.
30. Gautam, S. P. and **Prasad, K.** 1998. Impact of *Glomus macrocarpum* VAM on the fiber strength and carbohydrate properties of *Dendrocalamus strictus* under field conditions. *Proc. J. Indian bot. Soc.*, 77: Twenty first all **India Botanical Conference**, 24-26 October, 1998, p. 12.
31. **Prasad, K.** and Rajak, R. C. 1998. Recent advances in mycorrhizal taxonomy: Morphological and molecular criteria. *Proc. International Symposium* on "Microbial Biotechnology for Sustainable Development and Productivity", Department of Biological Science, R. D. University, Jabalpur, 14-16 November, 1998, pp. 51-52.
32. **Prasad, K.** 1998. Effect of *Glomus fasciculatum* VAM fungus and *Rhizobium* sp. on *Prosopis Juliflora* L. Plant. *Proc. International Symposium* on "Microbial Biotechnology for Sustainable Development and Productivity," Department of Biological Science, R. D. University, Jabalpur, 14-16 November, 1998, p. 93.
33. Bilgrami, R. S. and **Prasad, K.** 1998. Impact of *Glomus fasciculatum* VAM fungus and Nitrogen on biomass yield and chlorophyll contents of *Saccharum officinarum* L. *Proc. International Symposium* on "Microbial Biotechnology for Sustainable Development and Productivity", Department of Biological Science, R. D. University, Jabalpur, 14-16 November, 1998, pp. 94-95.
34. Gautam, S. P. and **Prasad, K.** 1998. Impact of *Glomus macrocarpum* VAM fungus on growth and nutrients uptake of *Dendrocalamus strictus* under field conditions. *Proc. International Symposium* on "Microbial Biotechnology for Sustainable Development and Productivity", Department of Biological Science, R. D. University, Jabalpur, 14-16 November, 1998, pp. 93-94.
35. Bilgrami, R.S. and **Prasad, K.** 1998. Bio control of wilt of *Saccharum officinarum* and enhancement in biomass and sucrose contents by VAM. *Proc. International Conference "7th International Congress of Plant Pathology"* held at Edinburgh, U.K. March, 1998
36. **Prasad, K.** 1999. Effect of *Glomus fasciculatum* VAM fungi and *Rhizobium* on biomass production and nutrient uptake of *Acacia nilotica* L. *Proc. International Conference* on "Frontiers in Fungal Biotechnology and Plant Pathogen Relations", Department of Botany, Osmania University, Hyderabad, 16-18 January, 1999, p. 67.

37. **Prasad, K.** 1999. Mycorrhizae and their importance in Agriculture and forestry. *Proc. National Conference* on “*Prospect of Environmental Research in 21<sup>st</sup> Century*”, J. N. College, Madhubani, 22-24 March, 1999.
38. **Prasad, K.** and Bilgrami, R. S. 1999. Impact of *Glomus fasciculatum* VAM fungus and mutata of potash on biomass yield and sucrose content of *Saccharum officinarum* L. *Proc. National Conference* on “*Mycorrhiza*”, Institute of Microbiology and Biotechnology, Barkatullah University, Bhopal, 5-7 March, 1999, p. 17.
39. Gautam, S. P. and **Prasad, K.** 1999. Impact of *Glomus macrocarpum* VAM fungus on proximate chemical composition of *Dendrocalamus strictus* under field conditions. *Proc. National Conference* on “*Mycorrhiza*”, Institute of Microbiology and Biotechnology, Barkatullah University, Bhopal, 5-7 March, 1999, p. 57.
40. **Prasad, K.** 1999. Influence of indigenous VAM fungus (*Glomus fasciculatum*) and *Rhizobium* on growth, nutrient uptake and nodulation in *Acacia nilotica* plant. *Proc. National Conference* on “*Mycorrhiza*”, Institute of Microbiology and Biotechnology, Barkatullah University, Bhopal, 5-7 March, 1999, p. 67.
41. **Prasad, K.** 1999. Vesicular arbuscular mycorrhizal association and root colonization in some important tree species. *Proc. National Seminar* on “*Plant Biotechnology*”, Department of Botany, University of Arts and Science College, Subedari, Warangal, 29-30 June, 1999.
42. **Prasad, K.** and Bilgrami, R. S. 1999. Impact of VAM and phosphates on biomass yield of *Saccharum officinarum* L. *Proc. National Seminar* on “*Plant Biotechnology*”, Department of Botany, University of Arts and Science College, Subedari, Warangal, 29-30 June, 1999.
43. **Prasad, K.** 1999. Application of vesicular arbuscular mycorrhizae fungal biofertilizer on biomass yield and nutrient uptake of *Azadirachta indica* L. *Proc. National Symposium* on “*Mycology at 2000 and beyond*”, Mycological society of India and Department of Bioscience, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 21-23 December, 1999, pp. 2-3.
44. **Prasad, K.** and Bilgrami, R. S. and Rajak, R. C. 1999. Impact of *Glomus fasciculatum* (VAM) and phosphates on biomass yield and chlorophyll contents of *Saccharum officinarum* L. *Proc. National Symposium* on “*Mycology at 2000 and beyond*”, Mycological society of India and Department of Bioscience, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 21-23 December, 1999, p. 4.
45. Rahi, D., Shukla, K., **Prasad, K.**, Pandey, A. K. and Rajak, R. C. 1999. Exploitation of mushroom biodiversity as low cost nutritive package. *Proc. National Symposium* on “*Mycology at 2000 and beyond*”, Mycological society of India and Department of Bioscience, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 21-23 December, 1999, p. 20.
46. **Prasad, K.** 2000. Effect of VAM on biomass yield and nutrient uptake of *Azadirachta indica*. *Proc. National Symposium* on “*Biotechnology of Plant Protection : Application and Technology Development*”, CAS in Botany, Banaras Hindu University, Varanasi, 25-27 February, 2000, pp. 70-71.

47. Rahi, D., Shukla, K., **Prasad, K.**, Pandey, A. K. and Rajak, R. C. 2000. Germplasm conservation of mushroom biodiversity through biotechnological approaches. *Proc. National Symposium* on "Biotechnology of Plant Protection: Application and Technology Development", CAS in Botany, Banaras Hindu University, Varanasi, 25-27 February, 2000, p. 103.
48. **Prasad, K.** 2000. Interaction effect of native *Glomus fasciculatum* VAM fungus and *Rhizobium* on *Prosopis juliflora* L. *Proc. National Conference* on "Recent Trends in Biotechnology" Department of Botany, Sanatana Dharma College, University of Kerala, Alappusha, 25-27 March, 2000, p. 40.
49. **Prasad, K.** 2000. Application of vesicular arbuscular mycorrhizal fungal biofertilizer for biomass yield and nutrient uptake of *Azadirachta indica* L. *Proc. National Conference* on "Recent Trends in Biotechnology", Department of Botany, Sanatana Dharma College, University of Kerala, Alappusha, 25-27 March, 2000, pp. 39-40.
50. **Prasad, K.** 2000. Management of biodiversity of multipurpose tree species for sustainable development through AM fungi. *Proc. National Seminar* on "Biodiversity Conservation and Management with Special Emphasis on Biosphere Reserves", Environmental Planning and Coordination Organization, Bhopal, 24-27, November 2000.
51. **Prasad, K.** 2001. Interaction between *Glomus fasciculatum* AMF and *Rhizobium* and their effect on *Prosopis juliflora* in nursery conditions. *Proc. International Symposium* on "Frontiers of Fungal Diversity and Diseases in South East Asia", Department of Botany, D.D.U.G. University, Gorakhpur, 9-11 February, 2001, p. 25.
52. **Prasad, K.** and Rajak, R. C. 2001. Biofertilizers: Importance in agriculture and forestry. *Proc. International Symposium* on "Frontiers of Fungal Diversity and Diseases in South East Asia", Department of Botany, D.D.U.G. University, Gorakhpur, 9-11 February, 2001, p. 37.
53. **Prasad, K.** and Gautam, S. P. 2001. Physiological and biochemical studies in arbuscular mycorrhizal fungus (*Glomus macrocarpum*) inoculated *Dendrocalamus strictus* L. under field conditions. *Proc. International Symposium* on "Frontiers of Fungal Diversity and Diseases in South Asia", Department of Botany, D.D.U.G. University, Gorakhpur, 9-11 February, 2001, p. 73.
54. **Prasad, K.** and Bilgrami, R. S. 2001. Effect of *Glomus fasciculate* AMF and Nitrogen on chlorophyll contents of *Saccharum officinarum* L. *Proc. International Symposium* on "Frontiers of Fungal Diversity and Diseases in South East Asia", Department of Botany, D.D.U.G. University, Gorakhpur, 9-11 February, 2001, p. 76.
55. **Prasad, K.** 2001. Interaction between *Glomus fasciculatum* AMF and rhizosphere fungi in *Saccharum officinarum* L. *Proc. National Seminar* on "Present Status of Microbiology and Challenges for Sustainable Development", Department of Applied Microbiology & Biotechnology and AMI unit, Dr. H. S. Gour University, Sagar, 5-7 March, 2001, p. 67.
56. Gautam, S. P. and **Prasad, K.** 2001. Impact of *Glomus macrocarpum* AM fungus on growth and nutrients uptake of *Dendrocalamus strictus* under field conditions. *Proc. National Seminar* on "Present Status of Microbiology and Challenges for Sustainable

- Development*", Department of Applied Microbiology & Biotechnology and AMI unit, Dr. H. S. Gour University, Sagar, 5-7 March, 2001, p. 68.
57. Gautam, S. P. and **Prasad, K.** 2001. Effect of *Glomus macrocarpum* on the fiber strength properties and production of holocellulose, hemicellulose and cellulose by *Dendrocalamus strictus* under field conditions. **National Symposium** on *Frontiers on Plant Sciences*, Department of Botany, Osmania University, Hyderabad, 10-11 March, 2001, p. 3.
  58. **Prasad, K.** 2002. Establishment of biodiversity to multipurpose tree species for sustainable development through AM fungi. **National Symposium** on "*Contemporary Trend in Biology and Sciences*", Department of Biological Science, R. D. University, Jabalpur. 9-11 Jan. 2002.p.65.
  59. **Prasad, K.** 2002. Mycorrhizae and their importance in agriculture and forestry. **National Symposium** on "*Contemporary Trend in Biology and Sciences*", "Department of Biological Science, R.D. University, Jabalpur. 9-11 Jan. 2002. Pp-66-67.
  60. Mahna, S.K. **Prasad, K.** Vedi, S. and Meghavansi, M.K. 2002. Isolation, authentication and efficiency of seven indigenous Bradyrhizobial strains of Rajasthan. **Proc. National Symposium** on " *Bioscience: Advances, Impact and Relevance*", Department of Plant Science, M .J .P. Rohilkhand University, Bareilly, 27<sup>th</sup>-29<sup>th</sup>October, 2002 .pp.48-49.
  61. **Prasad, K.** 2003. Mycorrhizal diversity and its role in the productivity of forest plants. **Proc. National Seminar** on "*Perspective of Microbial Diversity in Present Scenario*", Department of Botany-Microbiology, Govt. Auto. M.H. College of Home Science and Science for Women, Jabalpur. 11-12 March, 2003, p.44.
  62. **Prasad, K.** 2003. Performance of mycorrhizal biofertilizer and their role in sustainable development and productivity. **Proc. National Seminar** on "*Perspective of Microbial Diversity in Present Scenario* ", Department of Botany-Microbiology, Govt. Auto. M. H. College of Home Science and Science for Women, Jabalpur, 11-12 March, 2003.pp.44-45.
  63. **Prasad, K.** 2-003. Symbiotic arbuscular mycorrhizal fungal diversity and its role in sustainable development and productivity. **Proc. Indo-US Workshop** on "*Molecular Biology and Biotechnological Application of Mycorrhizal fungi*", School of Life Science, Jawaharlal Lal Nehru University New Delhi, 23<sup>rd</sup>-26<sup>th</sup> March 2003.
  64. **Prasad, K.** 2003. Effect of AM Fungi on biomass and nutrient uptake of *Azadirachta indica* **Proc. National Congress** on " *Molecular Symbiosis*", School of Life Science Jawaharlal Lal Nehru University , New Delhi, 27<sup>th</sup> -28<sup>th</sup> March ,2003.
  65. Mahna, S.K., **Prasad, K.**, Meghavansi, M.K. and Harwani, D. 2004. Efficiency of Bradyrhizobia in different soybean cultivars in pots filled in with rhizospheric soils of soybean/ non legume cultivated land. **International Congress** "Rhizosphere 2004-Perespectives and Challenges-a Tribute to Lorenz Hiltner" held at Munich (Germany) 12-17 Sep. 2004.pp.135.
  66. **Prasad, K.** 2004. Interaction between arbuscular mycorrhizal fungi (*Glomus fasciculatum*) and rhizosphere fungi in *Saccharum officinarum* L. **Proc. International**

**Congress Rhizosphere 2004- Perspective and Challenges-A Tribute to Lorenz Hiltner** held at Munich (Germany), 12-17 September, 2004.p.71.

67. Harwani, D., Meghavansi, M.K., **Prasad, K.** and Mahna, S.K. 2004. Stimulatory effect of three carbon sources on redifferentiation potential of soybean modulating bacteria. *Proc. International Symposium* on "Microbial Diversity: Challenges, Opportunities & Relevance in new Millennium" held at R. D. University, Jabalpur.19 – 21 November, 2004.p.71.
68. **Prasad, K.** 2004. Mycorrhizae and their function in sustainable development and productivity. *Proc. International Symposium* on " Microbial Diversity: Challenges, Opportunities & Relevance in New Millennium" held at R. D.University, Jabalpur 19-21 November, 2004.p.7.
69. Meghavansi, M.K. and **Prasad, K.** 2004.Symbiotic effectiveness of pH tolerant *Bradyrhizobium japonicum* strains in soybean [*Glycine max* (L.) Merr.] in low nutrient soil. **National Conference** on "Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology" held on December 29-31, 2004 at Department of Botany, Osmania University, Hyderabad-500007 (A.P.)
70. Mahna, S.K., Meghavansi, M.K., **Prasad, K.**, Harwani, D. and Werner, D. 2004.Screening of Efficient *Bradyrhizobium japonicum* Strains for the Improvement of Soybean Production. **National Conference** on "Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology" held on December 29-31, 2004 at Department of Botany, Osmania University, Hyderabad-500007 (A.P.)
71. **Prasad, K.** and Gautam, S. P.2004. Impact of arbuscular mycorrhizal (*Glomus macrocarpum*) on the growth and nutrient uptake of *Dendrocalamus strictus* (Roxb.) Nees under field conditions. *Proc. National conference* on "Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology" Department of Botany, Osmania University, Hyderabad, 29-31 December, 2004.
72. **Prasad, K.** Meghavansi, M. K., Harwani, D., Chaudhry, P. and Mahna, S. K.2004. Effect of arbuscular mycorrhizal fungi (AMF) and *Bradyrhizobium japonicum* on growth, yield and nutrient uptake of soybean. *Proc. National conference* on "Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology". Department of Botany, Osmania University, Hyderabad, 29-31 December, 2004.
73. Mahna, S.K., Meghavansi, M.K. Harwani, .D. **Prasad, .K.** and Werner, D. 2004. Screening of efficient *Bradyrhizobium japonicum* strains for the improvement of soybean production. *Proc. National conference on* "Emerging Trends in Mycology, Plant Pathology, and Microbial Biotechnology. "Department of Botany. Osmania University, Hyderabad, 29-31 December, 2004.
74. Mahna, S.K., Harwani, D., **Prasad, K.** and Werner, D. 2005.Evaluation of tripartite symbiotic associations under field conditions. *Proc. National seminar* on "Resource Management Options to Reverse the Declining Trend in Crop Productivity" Tamil Nadu Agriculture University, Coimbatore, India. July 4-5, 2005
75. Mahna, S.K., Harwani, D., **Prasad, K.**, Chaudhary, P., Dhaker, S. and Werner, D. 2005. Efficiency determination of six bradyrhizobial strains used as bio inoculant in three soybean (*Glycine max* (L.) Merrill) cultivars under field conditions. *Proc. National*

- conference** on “*Frontiers in Biofertilizers and Biopesticides*”. Dr. Babasaheb Ambedkar Marathwada University, Osmanabad, Maharashtra, India. February 19-21, 2005
76. **Prasad, K.** 2008. Mycorrhizal Bio fertilizer and Their Role in Sustainable Development and Productivity. Proc. of **National Seminar** on “*Biotechnology in the Conservation of Biodiversity*. “Department of Life Science, Sir C. R. Reedy Autonomous College, Eluru (A.P.), November 22, 2008 pp. 60-61.
  77. **Prasad, K.** 2008. Screening of Temperature Tolerant Strains of *Bradyrhizobium japonicum* for Improvement of Soybean Cultivation in Tropical Soils. Proc. of **National Seminar** on “*Biotechnology in the Conservation of Biodiversity*. “Department of Life Science, Sir C. R. Reedy Autonomous College, Eluru (A.P.), November 22, 2008 pp. 61-62.
  78. **Prasad, K.** 2008. Microbial diversity: A vital Genetic Resource for Mankind Proc. of National Seminar on “*Biotechnology in the Conservation of Biodiversity*. “Department of Life Science, Sir C. R. Reedy Autonomous College, Eluru (A. P.), November 22, 2008 pp. 62-63.
  79. Meghavansi, M. K., **Prasad, K.** and Mahna, S.K. 2011. Sodium chloride tolerance of *Bradyrhizobium japonicum* in broth culture. Proc. **International conference** on “*Microorganisms in Environmental Management and Biotechnology* ”Department of Biotechnology and Bioinformatics Centre, Barkatullah University, Bhopal, July 1-3, 2011 p. 38
  80. Mishra, R.K., Chaudhary, R., Aggarwal, N, **Prasad, K.** and Adholeya, A. 2013. Arbuscular mycorrhizal fungi boosts crop production with reduced chemical fertilizers input. Proc. **7th International conference on Mycorrhiza (ICOM7)** “*Mycorrhiza for All: An Under-Earth Revolution*” Tata Energy Research Institute, IHC, New Delhi, 6-11 January, 201, p210.
  81. **Prasad, K.** 2013. Eco Friendly Biofertilizer and Bio compost – An innovative tool for Organic Farming for Sustainable Development and Productivity in Indian Scenario. Proc. **National Conference on “Science Knowledge in Hindi”** held on 6-7 June, 2013, at Atal Bihari Vajpayee Hindi University, Bhopal, Madhya Pradesh.
  82. **Prasad, K.** and Rajas V. Warke. 2018. Biology, Diversity and Promising Role of Microbial Inoculants Specially Mycorrhizae in Agriculture and Natural Ecosystems to Improve Production for Sustainable Development. NCIL-1001, Invited Speaker, National Conference on *Microbial Inoculants for Agriculture and Environmental Sustainability* held on 28-30 September 2018 at Department of Botany and Microbiology, Guru Kula Kangri Vishwavidyalaya, Haridwar, pp. 7-8.
  83. **Prasad, K.** and Rajas V. Warke. 2018. Arbuscular mycorrhizal fungi play a promising role towards green technology and soil health management. ISMPP 39<sup>th</sup> Annual Conference and National Symposium *Plant and Soil Health Management: New Challenges and Opportunities*, held on 16-18 November 2018 at ICAR- Indian Institute of Pulses Research, Kanpur, U.P. p. 191.
  84. Khadke, K, Rajas VW and **Prasad, K.** 2018. Interrelated effect of arbuscular mycorrhizal fungi and free-living nitrogen fixer's bacteria on soybean (*Glycine max.* L.) and evaluation of their efficacy. ISMPP 39<sup>th</sup> Annual Conference and National Symposium

- Plant and Soil Health Management: New Challenges and Opportunities*, held on 16-18 November 2018 at ICAR- Indian Institute of Pulses Research, Kanpur, U.P. p. 293.
85. Rajas VW, **Prasad, K** and Khadke, K. 2018. Impact of arbuscular mycorrhizal fungi (ROC-WA329) and phosphate solubilizing bacteria (WA302) on Zea mays cultivated at Satara district of Maharashtra, India. ISMPP 39<sup>th</sup> Annual Conference and National Symposium *Plant and Soil Health Management: New Challenges and Opportunities*, held on 16-18 November 2018 at ICAR- Indian Institute of Pulses Research, Kanpur, U.P. p. 179.
  86. **Prasad, K.** 2021. Arbuscular Mycorrhizal Fungi and Plant Interactions Influences Climate Change for Global Sustainable Development. Proceeding ESW VIII Annual National Research Conference on *Anthropogenic Impact on the Environment, Society and Human health* held on 30 - 31 Jan., 2021, Organized by Environment and Social Welfare Society, Khajuraho, India. pp.68-69.
  87. **Prasad, K.** 2022. Glycoprotein Producing AM Fungi Lifestyle and Energetic Role in Global Sustainable Agriculture to Green Technology for Future Generation. 7<sup>th</sup> Asian PGPR International Conference for Sustainable Agriculture held in Kuala Lumpur, Malaysia on 23-26 August 2022. Pp.120-121.
  88. **Prasad, K.** 2023. Glycoprotein Producing AM Fungi and their Potential role in Sustainable Agriculture by Improving Soil Health, Plant Broad-mindedness, Crop Productivity and Quality for Maintaining Steady Population. 8<sup>th</sup> Asian PGPR Conference on *Beneficial Microbes for Plant Health Management* held on College of Horticulture, UHS Campus, GKVK, Bengaluru on 19-21 September 2023. P. 287.

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

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



37	BioX644	Lysinibacillus macroides	OP248796
38	BioX645	Priestia megaterium	OP249278
39	BioX646	Bacillus pumilus	OP257206
40	BioX647	Paenibacillus alvei	OP257229
41	BioX648	Staphylococcus pasteurii	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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