III. TEACHING-LEARNING AND EVALUATION

1. FACULTY PROFILE

Dr. P. K. Khare FNIE
DOB: 06.12.1956
Professor, Department of Botany,
Dr. Harisingh Gour Vishwavidyalaya, Sagar – 470003, MP
Email: pkkhare@dhsgsu.edu.in

Research Interest:
- **Plant Ecology**
- **Carbon Sequestration**
- **Invasive Biology**
- **Climate Change**

Doctoral Work (University of Saugar, Sagar):

Environmental Biology of Forests with reference to natural regeneration

Post-doctoral Work (Georgia Augusta, University of Gottingen, Gottingen, Germany):
- **Nitrogen mineralization in Beach Forest**
- **Water cycle in forest and shrub land**

Collaboration:
- Central University Jharkhand, Ranchi
- Indian Institute of Science, Bangalore

Projects (Ongoing /Completed):
a) **Ongoing: 01 (Rs. 319.92 lakhs)**
b) **Completed: 02 (Rs. 32.00 lakhs)**
Total: 03 (Rs. 351.92.22lakhs)

Publications:
- Book Chapters: 05
- Books: 04
- Total Citations: 499
- Total Impact Factor: 94.78

H index:10; *I-10-index:* 12

Countries visited: West Germany

Students Supervised (by research):
Ph. D: 24 (Awarded), 06 (Pursuing)

Membership and Awards:

- **Fellow of National Institute of Science, New Delhi.**
- **Membership, International Society for Tropical Ecology**
- **Membership, Society for Tropical Foresters.**
- **Membership, Indian Botanical Society.**
- **Membership, Indian Science Congress Association.**
- **Membership, Mycorrhiza Network.**
- **Expert member for revision of wildlife protection act 1972 (Ministry of Environment, Forest and Climate Change)**

Recent selected Publications:

1. **Vijay Kumar, P.K.Khare and M.L. Khan, Growth Performance and Invasive Attributes of *Cassia uniflora* Mill., A Recently Introduced Plant in Central India, International Journal of Ecology and Environmental Sciences 47(2): 145-151, 2021 ISSN: 2320-5199 (Online).**
2. **Ray T., Malasiya D., Rajpoot R., Verma S., Dar J. A., Dayanandan A., Raha D., Lone P. A., Pandey P., Khare P. K. and M. L. 2020.Impact of Forest Fire Frequency on Tree Diversity and Species Regeneration in a Tropical Dry Deciduous Forest, Panna Tiger Reserve, Madhya Pradesh, India, *Journal of Sustainable Forestry* ,https://doi.org/10.1080/10549811.2020.1823853**
3. **Rajpoot R., AdhikariD., VermaS., Saikia P., Kumar A., GrantK. R., DayanandanA., Kumar A., KhareP. K. and KhanM. L.2020. Climate models predict a divergent future for the medicinal tree *Boswellia serrata* Roxb. in India; *Global Ecology and Conservation*23 (2020) e01040, https://doi.org/10.1016/j.gecco.2020.e01040.**
4. **Raha D., Dar J. A., Pandey P. K., Lone P. A., Verma S., Khare P. K. & Khan M. L. 2020. Variation in tree biomass and carbon stocks in three tropical dry deciduous forest types of Madhya Pradesh, India, *Carbon Management*,https://doi.org/10.1080/17583004.2020.1712181.ISSN: 1758-3004 (Print) 1758-3012 (Online) Journal homepage: https://www.tandfonline.com/loi/tcmt20**
5. **Anamika Dubey , Muneer Ahmad Malla, Farhat Khan. Kanika Chowdhary,Shweta Yadav, Ashwani Kumar, Satyawati Sharma, Pramod K. Khare and Mohammad Latif Khan. (2019) Soil microbiome: a key player for conservation of soil health under changing climate. Biodiversity and Conservation. https://doi.org/10.1007/s10531-019-01760-5. IF 3.81**
6. **Dar J. A., Subashree, K, Bhat, N.A., Rather, M.Y., Sundarapandian, S.M., Khare, P.K. and Khan, M.L (2018) Climate Change Combat – A Conspectus. Int. J Environ Sci. Nat Res 13(2): 1-4. IF 0.954**
7. **Satyam Vermaa , Javid Ahmad Dara , Dinesh Malasiyaa , Pramod Kumar Khare , Selvadurai Dayanandan, Mohammed Latif Khan (2018) A MODIS-based spatiotemporal assessment of agricultural residue burning in Madhya**

Pradesh, India. Ecological Indicators. https://doi.org/10.1016/j.ecolind.2018.04.042. IF 3.98

8. **Onkar Salunkhe, P. K. Khare, Richa Kumari and M. L. Khan (2018) A systematic review on the aboveground biomass and carbon stocks of Indian forest ecosystems. Ecological Processes, 7:17. IF 0.402**

9. **Onkar, Salunkhe and. Khare, P.K. (2016) Aboveground Biomass and Carbon Stock of Tropical Deciduous Forest Ecosystems of Madhya Pradesh, India. International Journal of Ecology and Environmental Sciences, 42(S): 75-81. IF 0.26**

10. **Onkar Salunkhe, P.K. Khare, T.R. Sahu and Sarnam Singh (2016). Estimation of tree biomass reserves in tropical deciduous forests of Central India by non-destructive approach. Tropical Ecology, 57(2):153-161. IF 1.26**

11. **Salunkhe Onkar, Khare P.K., Sahu T.R. and Sarnam Singh (2014). Above Ground Biomass and Carbon Stocking in Tropical Deciduous Forests of State of Madhya Pradesh, India. Taiwania, 59(4): 353– 359. IF 0.42**

Recipient of U.G.C. Career Award, Recipient of U.G.C. Research Award, F.B.S., F.P.S.I., F.S.M.P.P., F.M.S.I.

DOB: 01-07-1957

Professor, Deptt. of Botany,

Dr. H.S. Gour University, (A Central University)

Research interest:

- Survey, Collection, Identification, description, illustration of the fungal forms from forest flora of Indian subcontinent.
- Giving training to M. Sc. and Ph.D. students regarding the field mycology and its fascinating aspects.

Doctoral work:

- University of Gorakhpur
- Mycology(Fungal Taxonomy)

Students Supervised:

PhD: 21(Awarded),
02(Pursuing)

Publications

- Total publication: 130
- Book Chapter: 1

Seminar/Symp. workshop: 36

Awards:

- **Gold Medalist of the University**
- **Bursary scholarship**
- **Direct fellowships from CSIR, New Delhi (JRF and SRF)**
- **Research Associate- Direct from CSIR, New Delhi**
- **UGC Career Award (1993-1996)**
- **UGC Research Award (2006-2009)**

Published new Genera of fungi

- ***Neopericonia* gen.nov. (Mycotaxon)**
- ***Parafulvia* gen.nov. (Mycotaxon)**
- ***Pseudochuppia* gen.nov. (Mycologia)**
- ***Eriocercosporella* gen.nov. (Indian Phytopathology)**
- ***Gonatophragmiella* gen.nov. (Indian Phytopathology)**
- ***Saksenamyces* gen. nov. (Mycotaxon)**

Published new species of fungi:

More than 150 new species have been published in various Research Journal

Memberships or fellowships of professional/academic bodies/societies etc.

- **Elected for Executive Council of Mycological Society of India for 1995 and 1996.**
- **Member of the Council of Mycological Society of India: 2001-2004.**
- **Fellow of Indian Botanical Society - Awarded in 2000.**
- **Fellow of Indian Phytopathological Society - Awarded in 2002.**
- **Fellow of Indian Society of Mycology and Plant Pathology 2007.**
- **Fellow of Mycological Society of India-2011**
- **Member of Council Mycological Society of India in 2011-2012.**
- **Life Member of Indian Science Congress.**
- **Life Member of Indian Botanical Society.**
- **Life Member of Indian Phytopathological Society.**
- **Life member of Indian Society of Mycology & Plant Pathology.**
- **Life Member of Botanical Society, Dr. H. S. Gour University, Sagar.**
- **Life Member of Society for Basic and Applied Mycology.**

Ten Selected Publications:

1) **Surywanshi, J., Singh P. N. & Rai, A. N. (2018) Mycotaxon 133(3) 423-428**
2) **Verma, N.K. and Rai, A.N. (2014) Mycotaxon 127: 97-101**
3) **Rai, AN (1996) Mycological Research 100 (10):1263-1264.**
4) **Rai, AN and Rai, B (1995) Mycological Research 99(8): 1004-1006.**
5) **Rai, AN, Rai, B and Kamal (1993) Mycol Research 97(1): 28-34.**
6) **Dubey, RK, Firdousi, SA, Rai, AN and Vyas, (1990) Mycol Res 94 (7): 1004-1005.**
7) **Rai, AN and Kamal (1987) Tans Br Mycol Soc 89 (I) 124-126.**
8) **Kamal, Rai, AN and Morgan-Jones, G (1984) Mycologia 76 (I): 163-166.**
9) **Kamal, Rai, AN and Morgan-Jones, G (1983) Mycotaxon 18: 67-71.**
10) **Kamal, Rai, AN and Morgan-Jones,G (1983) Mycotaxon 18: 15-18.**

Administrative experience:

- **Joint proctor in the University.**
- **Assistant superintendent, coordinator in the university main examination.**
- **Chief- Coordinator examination.**
- **Worked as Captain (NCC) of the University.**

Commitment:

- **Towards teaching and research**
- **Study of the fungal biodiversity from the forest flora of Indian sub-continent.**
- **Motivating students towards unity and discipline and awareness for National integration.**
- **Training M.Sc. and Ph.D. students in Field Mycology towards beauty of nature along with fascinating aspects.**

DR. DEEPAK VYAS
Ph.D., PDF
DOB: 3.9. 1964
Department of Botany
Dr.Harisingh Gour Vishwavidyalaya,Sagar
Professor & Head
https://vidwan.inflibnet.ac.in/profile/99811

Research Interest:

- **Rhizosphere Microbiology**
- **Biodiversity and conversation**
- **Mushroom Biology**
- **Therapeutic potential of Mushrooms**
- **Eco-planning and Management**

Doctoral Work (BHU, Banaras):

- **Physiological studies on Cyanobacteria with special reference to Hydrogen uptake.**

Post-doctoral Work:

- **Hydrogen Production by Cyanobacteria.**
- **Rhizospheric Microbiology**

Students Supervised:

- **Ph.D.: 18 (Awarded), 4 (Pursuing)**
- **PDF : 1 DS Kothari Fellow societies**

Administrative assignment :

- **In –charge Botanical Garden**
- **HOD, Botany**

Research Grants Received(in lakhs):

- **WRD, Madhya Pradesh (3.5lakh) 2012-13**
- **UGC (4lakh) 2004-07**
- **UGC (20,000 only)1999-2001**

Publications:

- Refereed Journals: 142
- Book Chapters: 49
- Seminar/Symp. proc.: 135
- Book (co-edited): 03
- Book Authored :03
- Bulletins: Nil;
- Technical Reports: 05

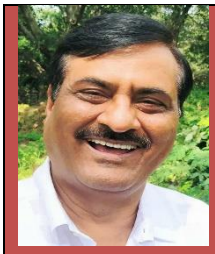
Awards etc.:

- UGC Research Award (2004)
- CSIR Research Associate (1994)
- Winning of the category of Ozone Layer Destruction, US$ 700 in INTER RESEARCH ESSAY GRAND PRIZE held in TOKYO, JAPAN, (1992)
- CSIR Senior Research Fellow (1992)
- M.Sc. Gold Medalist, Dr. H. S. Gour Vishwavidyalaya, Sagar (1987)
- First Rank in Life Science, Dr. H. S. Gour Vishwavidyalaya, Sagar (1987)
- Member of the 16 scientific society

SELECTED PUBLICATIONS:

1. **J. Ahmad Wagay, A.M. Alanazi, D. Vyas, S. Ahmad Paula, Q. Inamu Rahman(2021). Antioxidant and Organic Acid Evaluation of Geaster Saccatum Mushroom by Chemical and Electrochemical Assay at Carbon Nanotube Paste Electrode Antioxidant and Organic Acid Evaluation of *Geaster Saccatum* Mushroom by Chemical and Electrochemical Assay at Car. *Journal of King Saud University*. https://doi.org/10.1016/j.jksus.2020.101336.**
2. **Chaudhary, N., Singh, C., Pathak, P., Rathi, A., & Vyas, D(2021). Evaluation of the impact of pathogenic fungi on the growth of Pisum sativum L.-A review article.International Journal of Agricultural Technology,17(2):443-464**
3. **Dehariya, P., & Vyas, D. (2020). Evaluation of supplementation of Daucus carota on growth parameter and yield of Pleurotus sajor-caju. International Journal of Agriculture and Food Science Technology, 14(1), 23-30.**
4. **Wagay, J. A., Nayik, G. A., Wani, S. A., Mir, R. A., Ahmad, M. A., Rahman, Q. I., & Vyas, D. (2019). Phenolic profiling and antioxidant capacity of Morchella esculenta L. by chemical and electrochemical methods at multiwall carbon nanotube paste electrode. Journal of Food Measurement and Characterization, 13(3), 1805-1819.**
5. **Shukla A., Jha A., Dehariya K., Kumar A. & Vyas D. 2014. Archives of Phytopathology and plant protection http://dx.doi.10.1080/03235408.2014 884831 .**
6. **Shukla A., Kumar A., Jha A., Salunkhe O.R. & Vyas D.2012. Biology and Fertility of Soils doi: 10.1007/s00374-012-0744-8**
7. **Shukla A., Kumar A., Jha A., Dhyani SK., Vyas D. 2012. Biology and Fertility of Soils 48:899-909.**
8. **Dehariya P., Chaubey A. andVyas D. 2011.*Indian Phytopathol.* 64 (3): 291-295.**
9. **Tyagi R., Srinivas G., Vyas D.,Kumar A. and Kumar H.D. 1992. Photochem Photobiol 55:401-407.**

10. Vyas D. andKumar H.D. 1995. Int J Hydrogen Energy 20:163-168



Prof. (Dr.) Mohammed Latif Khan
FNIE, FNESA, FSSCCSE, SFMF, FISEB, FNAAS

DOB: 01. 01. 1961
Professor, Department of Botany
Dr.HarisinghGour Vishwavidyalaya (A Central University)
Sagar – 470003, (M.P.), India

RESEARCH INTEREST:

- Mapping of plant resources
- Biodiversity and conservation
- Assessment of ecosystem services
- Carbon Sequestration
- Invasive species
- Climate change and its impact on biodiversity

DOCTORAL WORK (NEHU, SHILLONG):

- Investigated different aspects of regeneration of tree species, i. e., seed production, dispersal, germination and seedling establishment.
- Studied the herbivory on seedlings in relation to successional status of species in varied environment.
- Investigated the role of sprouting on tree regeneration.

ACADEMY/SOCIETY FELLOWSHIPS:

- Fellow of Society for Science of Climate Change and Sustainable Environment (2020)
- Fellow of International Society for Environmental Botanists, Lucknow (2017)
- Fellow of National Environmental Science Academy, New Delhi (2010)
- Fellow of National Academy of Agricultural Sciences, New Delhi (2009)
- Fellow of Range Management Society of India, Jhansi (2007)
- Fellow of National Institute of Ecology, New Delhi (2005)
- Fellow of International Society for Tropical Ecology, Varanasi

PROFESSIONAL ASSOCIATIONS:

- Member of Global Forest Biodiversity Initiatives

POST-DOCTORAL WORK:

- Plant and insect interaction (NEHU).
- Effectiveness of the existing protected area network in conserving the floristic biodiversity (Univ. of Mass., Boston, USA).
- Identifying conservation priority areas in the tropics: A land-use change modeling approach (Univ. of Mass., Boston, USA).
- Assessment of phylogenetic relationship among *Rhododendron*, *Bamboo* and *Citrus* species of north-east India Himalayas. (Concordia University, Montreal, Canada).

COLLABORATION:

International

- Concordia University, Montreal, Canada
- Kansas University, USA

National

- IISc, Bangalore
- Central University Jharkhand, Ranchi

PROJECTS (ONGOING /COMPLETED):

a) Ongoing: 05 (Rs. 919.32 lakhs)
b) Completed: 35 (Rs. 845.35 lakhs)

Total: 40 (Rs.1764.67 lakhs)

COUNTRIES VISITED:

USA, Canada, UK, China

STUDENTS SUPERVISED (BY RESEARCH):

- Ph. D: 20 (Awarded), 01 (submitted), 04 (pursuing)
- M. Sc.: 08
- B. Sc.: 25

BOARD/COMMITTEE MEMBERSHIPS:

- On the panel of experts for the protected areas of critical wildlife habitats of MP.
- On the panel of taskforce of DBT, New Delhi for the project' Demonstration of cultivation, processing and value addition of selected aromatic crops inBundelkhand region. (2017-2020).
- UGC nominee in the advisory committee for monitoring the progress of SAP programme of Department of Biosciences, Himachal Pradesh University, Shimla, HP (2016-2019).
- Member of the Research Advisory Group Meeting of Tropical Forest Research Institute, ICFRE, Jabalpur, MP.
- Member of the Research Advisory Group Meeting of Rain Forest Research Institute, ICFRE, Jorhat, Assam.
- Member of the Committee for Biodiversity Strategy and Action Plan of Govt. of Arunachal Pradesh.
- Member of Multidisciplinary Committee for (GFBI), People, Nature, World, Diversity, USA.
- Member of South Asia Region Network of IUCN – CEM (Critical Ecosystem Management), IUCN CEM South Asia Core Group.
- Elected as Vice President of Executive Council of National Institute of Ecology (NIE), New Delhi (2014-2017, 2018-2020).
- Inducted in the executive body of International Society of Environmental Botanists (2019 till present).
- Executive Council Member of Climate Change & Sustainable Environment (SSCE), Lucknow
- Editorial Member of the Journal of Climate Change and Sustainable Environment.
- Councilor, Rangeland Management Society of India.
- Councilor, National Institute of Ecology, India.
- Editorial board member, Indian Journal of Agroforestry.
- On the editorial board of Scientific World Journal (Ecology section), UK.

INTERNATIONAL FELLOWSHIPS AWARDED:

- Shastri Mobility Programme Fellowship (2018) awarded by Shastri Indo-Canadian Institute (SICI) to carryout short-term research project at Concordia University, Montreal, Canada.
- DBT-Overseas Associateship, (Concordia University, Montreal, Canada), 2008
- DBT-Overseas Associateship, (Concordia University, Montreal, Canada), 2005
- DST-BOYSCAST Fellowship (University of Massachusetts, Boston, USA), 1995-96.

PUBLICATIONS:

- Refereed Journals: 185
- Book Chapters: 54
- Books: 03 - (01- CABI, UK, 01 Springer, 01 IBD (co-edited)
- Bulletins: 03; Technical Reports: 15
- Manuscripts under review: 08
- Total Citations: 5221 (Google Sch.) 2217 (Scopus)
- Total Impact Factor: 298.877
- *H* index: 36 Google Sch.), 24 (Scopus)
- *i-10-index: 82*

TEN SELECTED RECENT PUBLICATIONS:

1. Anand A., Pandey M. K., Srivastava P.K., Gupta A. and Khan M. L. 2021. *Remote Sens.* 13, 3284. doi.org/10.3390/rs13163284 (IF-4.888)
2. Anamika Dubey A., Muneer Ahmad Malla M. A., Kumar A. Dayanandan S. and Khan M. L. 2020. *Critical Reviews in Biotechnology*, DOI:10.1080/07388551.2020.1808584 (IF- 8.429)
3. Subashree K., Dar J., Sundarapandian S., Dayanandan S., Khan M. L. 2020. *Nature Scientific Reports,* Article number: *(2020) 10:13444 ISSN 20452322*

implementation of Environment safeguard measure, NEEPC, Arunachal Pradesh.

- Member of Advisory Management Committee of Regional Centre, National Afforestation and Eco-Development Board (MOEF), NEHU, Shillong
- On the panel of experts of Inter-Academy Advisory Panel of INSPIRE Programme of DST, New Delhi.
- On the panel of experts of MOEF, Govt. of India to celebrate "International Year of Biodiversity".
- Member of the Committee for State Pollution Control Board of Govt. of Arunachal Pradesh.
- Member of the Committee for State Medicinal Plant Board of Govt. of Arunachal Pradesh.
- Member of Core Committee on Climate Change Action Plan, Arunachal Pradesh.

AWARDS RECEIVED:

- Conferred the 'Award for Outstanding Contribution in Climate Science and Environmental Sustainability' of Society for Science of Climate Change and Sustainable Environment (2020)
- Conferred Nanda Memorial Award for Young Scientist (1995)

https://doi.org/10.1038/s41598-020-70313-6(IF - 4.379)

4. Zohner C. M. ..... Khan M. L. (et al.) 2020. *Proceeding of National Academy of Sciences* (PNAS, USA), Jun 2;117(22):12192-12200. doi: 10.1073/pnas.1920816117. Epub 2020 May 11. PMID: 32393624; PMCID: PMC7275740. (IF - 11.2)
5. Lal P., Kumar A., Kumar S., Kumari S., Saikia P., Arun Dayanandan A., Adhikari D. and Khan M.L. 2020. *Science of the Total Environment*, https://doi.org/10.1016/j.scitotenv.2020.139297; 0048-9697/© 2020 (IF- 7.963)
6. Rajpoot R., Adhikari D., Verma S., Saikia P., Kumar A., Grant K. R., Dayanandan A., Kumar A., Khare P. K. and Khan M. L. 2020. *Global Ecology and Conservation,* 23 e01040, https://doi.org/10.1016/j.gecco.2020.e01040. (IF-3.380)
7. Steidinger B. S., Khan M. L. (181 authors) 2019. *Nature* 569 (7756) 16 May: 404-408. https://doi.org/10.1038/s41586-019-1128-0. (IF-49.962)
8. Verma S., Dar J. A., Malasiya D., Khare P. K., Dayanandan S. and Khan M. L. 2019. *Ecological Indicators*, https://doi.org/10.1016/j.ecolind.2018.04.042 (online published), 105:496-504. (IF-4.958)
9. Behera M. D., Tripathi P., Das P., Srivastava S. K., Roy P. S., Joshi C., Behera P. R., Deka J., Kumar P., Khan M. L., Tripathi O. P., Dash T. & Krishnamurthy Y. V. N. 2018.*Journal of Environmental Management*, 206 1192e1203.doi:10.1016/j.jenvman.2017.10.015. (IF- 6.89).
10. Roy P. S., …., Khan M. L. (48 authors). 2015. *Remote Sensing.* 7:2401-2430; doi:10.3390/rs70302401 (ISSN 2072-4292). (IF-4.848).

Dr. Poonam Dehariya
Ph.D
DOB: 18.8.1981
Assistant Professor
Dr. Harisingh Gour University
Sagar (M.P.), India
E.mail:dpoonambot18@gmail.com

Awards etc.:

Best oral presentation award in oral presentation in National conference on Role of Biodiversity in Sustainable Agriculture (04-05 march,2010)

Students Supervised:

- 04 student pursuing Ph.D

Educational Carrier

- Ph D Botany (2011), Dr. H.S. Gour University, Sagar, M.P.
- UGC-CSIR-NET (2004)
- M.Sc Botany (2003), Dr. H.S. Gour Vishwavidyalaya, Sagar

Research Interest:

- Mushroom Biology

Area of Interest/ Teaching

General Botany, Microbiology, Plant Biotechnology, Plant Physiology and Biochemistry

Seminars/Workshops/Trainings Organized

- Three Days Training on Mushroom Cultivation at Women Autonomous PG College, Sagar March 2010.
- Two Days Workshop on Mushroom Cultivation and Marketing, at Department of Botany organized by NABARD and IFFDC, from 9-10 March 2009.

Book Published: 01 Dr. Poonam Dehariya (Editor) (2021): *Recent Trends in Mushroom Biology* Global Books Organization, ISBN: 978-93-83837-99-1

Doctoral Work (Ph D Botany (2011), Sagar, M.P.):

- Collection and identification of edible mushroom from nature.
- Cultivation of *Pleurotus sajor-caju* and *Agaricus bisporus.*
- Analysis of neutraceutical potential of *P. sajor-caju* and *A. bisporus.*

Publications: Refereed Journals: 31

- Book Chapters: 11
- Seminar/ Symp. Proc.:01
- Total Citations: 83
- Total impact factor: 11.28
- H-index: 6
- I-10-index: 2

Recent selected publications:

1. **Dehariya, P.** and Vyas, D. (2021): Evaluation of Supplementation of *Embelica officinalis* on Growth Parameter, Yield and Biological Efficiency of *Pleurotus sajor-caju*. *Res. Jr. of Agril. Sci.* (July-Aug 2021) 12(4): 1338–1342.
2. **Dehariya, P.** (2020): Improvement in Socio-Economic status by Mushroom Cultivation in Covid-19 Era. *International Journal of Social Science & Management Studies - I.J.S.S.M.S*. 6 (5): 141-145.
3. **Dehariya, P.** Singh, C. and Vyas, D. (2020):Yield Performance of *Pleurotus* Species on Chemical Fertilizer Treated and VA-mycorrhizal Inoculated Biomass. *Research Journal of Agricultural Sciences.* 11 (5): 1049-1053.
4. **Dehariya, P.** (2020): Antioxident potential of *Pleurotus sajor caju* growing on different Agro wastes. *International Journal of Recent Scientific Research.* 11(2): 37547-37549.
5. **Dehariya, P.** and Vyas, D. (2020): Evaluation of Supplementation of *Daucus carota* on growth parameter and yield of *Pleurotus sajor-caju. International Journal of Agriculture and Food Science Technology*. 14(1): 23-30.
6. **Dehariya, P.** and Vyas, D. (2020): Evaluation of Different Substrate Combinations on

the Yield of *Pleurotus sajor caju. Research Journal of Agricultural Sciences.*11(2): 434-437

7. Singh, C., Pathak, P. Chaudhary, N., Rathi, A., **Dehariya, P**. and Vyas, D. (2020): Mushrooms and Mushroom Composts in Integrated Farm Management. *Research Journal of Agricultural Sciences.*11 (6): 1436-1443.
8. **Dehariya, P.** and Vyas, D. (2017): Effect of different casing mixtures and their treatments on the yield of *Agaricus bisporus. Journal of Botanical Society, University of Saugor.*
9. Chandrapuriya, R. **Dehariya, P**. and Vyas, D.(2016).Effect of different substrates on *Pleurotus* mushroom yield and their antiradical potential..*Journal of Botanical Society*, University of Sagar, M.P Vol.47:118-125.
10. **Dehariya P** and Vyas D (2015). Evaluation of different spawn and substrates on growth and yield of *Pleurotus sajor caju. International journal of Recent Scientific Research.*6(3): 2908-2911.

Dr. Amit JugnuBishwas

Assistant Professor

Department of Botany, School of Biological Science

Dr.Harisingh Gour Vishwavidyalya, Sagar

Email: ajbishwas@gmail.com

Doctoral Work	Germination and regeneration of forest tree species
Research Area/Specialization	Plant Ecology, regeneration, Ethnobotany and Taxonomy
Additional Responsibility in the university	Member of Sport Committee, Scrutinizer, tabulator and Member of anti- ragging committee.
Ph.D. Awarded	**01**
Total No. Ph.D. pursuing	**03**
Chapter in Book	**01**
Total No.of Research Paper	**21**
Citation	**123**

Selected Research Paper

1. **Tinku Kumar,Bishwas, AJandKharePK (2021).*Solanum diphyllum* L. Solanaceae- Anew record for Madhya Pradesh, India, International Journal of Botany Studies. 6(5): 757-758**
2. **Tinku KumarBishwas AJ, PK Khare (2021). Invasive Alien Flora of Tropical Dry Deciduous Forest of Nauradehi Wildlife Sanctuary Central India. Indian Journal of Ecology 48(1):219-225.**
3. **C. Adhikari, DevanandMaurya, Kumar T andBishwasAJ(2021) Review on Ethno-medicinal Plants Used for Healing Skin Ailments in Madhya Pradesh, India, Indian Journal of Ecology (2021) 48(3): 709-715.**
4. **Gwalwanshi, DR and Bishwas, AJ, (2016) Some Unique Traditional Knowledge (Ethnomedicine) of Ethnic healers of Balaghat District, Madhya Pradesh, Madhya**

Bharti Research Journal, 60, 01-05, 2016, 0972-7434.

5. **Gwalwanshi, DR and Bishwas, AJ. (2016) Ethnobotanical Study of Wild Medicinal Plant in Balaghat District, Madhya Pradesh, India, Research Journal of Botanical Society, University of Saugor, 47,37-50, 2229-7170.**
6. **Bishwas, AJ, Tawari, P and Gwalwanshi, DR. (2015) Ecological Obeservations of Some Forest Plant Species in Sagar District of M.P., Madhya Bharti Research Journal, 59, 98-101, 0972-7434**
7. **Gwalwanshi DR, Bishwas, AJ and Vyas D, (2014)Biodiversoty of Ethnomedicinal Plants used by traditional healers in selected remote villages of Panna Disrict (Madhya Pradesh), India, Journal of Medicinal Plants Studies, 2(1), 10-17,2320-3862.**
8. **Gwalwanshi DR, Salunkhe O, Shukla A, Bishwas, AJ and Vyas D. (2014) Indigenous knowledge of Ethnomedicinal Plants of Panna District, Central India: A case Study, The journal of ethnobiology Traditional Medicine, Photon, 122, 868-876, 6642-3194.**
9. **Vyas D, Gwalwanshi DR, Salukhe O, Bishwas AJ and Tiwari P. (2014)Biodiversity of Ethnomedicinal Plants of Leguminosae from Patne Forest of Panna and Surroundings (MP), India, Madhya Bharti Research Journal, 58, 70-79, 0972-7434.**
10. **Gwalwanshi DR, Vyas D, Bishwas AJ, Salunkhe O, Tiwari P, Ethnomedicinal and Ecological Studies on FabaceaeodRunj Forest Panna (M.P.), India, Intrnational Journal of Recent Scientific Research, 5(7), 1264-1269, 0976-3031**

Dr. ASHWANI KUMAR (Ph. D, IIT Delhi) ***FISEB, FNIE, FYAI*** **Present Position: Assistant Professor,Metagenomics and Secretomics Research Laboratory, Department of Botany,School of Biological Sciences, Dr. H.S. Gour Central University, Sagar, M.P. INDIA, E-mail: ashwaniiitd@hotmail.com,ashwanik@dhsgsu.edu.inhttps://dhsgsu.irins.org/profile/96110**

Scientific Recognition:

Featured in top 2% of World scientists, in Biotechnology, list prepared by Stanford University, published in Plos Biology (2020).

Research Interest:

- **Metagenomics; Plant Microbe Interaction under different stresses; Bioremediation; Biofuel**

Doctoral Work (IIT Delhi):

Title: Effects of biofertilizers on *Jatropha curcas* under abiotic stress. C.G.P.A.:10/10

Academic/Research:

- **Assistant Professor, at Dept. of Botany, DHSGVV, Sagar since June 2013.**
- **Postdoctoral Fellow, Rhodes University, Grahamstown, South Africa & Durban University of Technology, Durban, South Africa. (2011-2013)**

Projects (Ongoing /Completed):

S.No	Title of the project Details	Funding agency Amount (In lakhs)		Role
1.	Mapping and quantitative assessment of plant resources and its distribution in Madhya Pradesh, Central India. Co-PI	DBT, India	212	Co-Investigator 2017-2021
2.	Monitoring forest structure and dynamics in relation to climate change across different biogeographic zones of India.Coordinating Institute: IISC, Bangalore	MoEF-CC, Govt of India	374	Co-Investigator 2020-2025
3.	Long-term monitoring of soil processes in forests and grasslands. Coordinating Institute: IISC, Bangalore	MoEF-CC, Govt of India	319	Co-Investigator 2020-2025
4.	Pheno. Microarray & molecular ident. of PGPR of selected bioenergy plants	UGC STARTUP Grant, India	6.0	Investigator 2014-2016

Students Supervised (by research):

- **Ph. D: 3 (Awarded), 01 Submitted, 2 ongoing**
- **M. Sc. dissertation: 07**

Awards/Honors and achievements:

- **Fellow of Young Academy of India, CUP.**
- **Fellow of National Institute of Ecology (2021).**
- **Fellow of International Society of Environmental Botanists (2019), CSIR-NBRI, Lucknow, UP India.**
- **Awarded Shastri Mobility Program (SMP), by Shastri-Indo Canada Institute for Concordia University, Montreal, Canada (2019).**
- **Awarded GIAN program, MHRD, Govt of India as Co-coordinator.**
- **Member of the Commission on Ecosystem Management, IUCN, Switzerland.**
- **Member Global Forest Biodiversity and Future Earth Initiative, USA.**
- **Awarded Rhodes University Council Research Grant, Rhodes University, Grahamstown South Africa (2013).**
- **Awarded NRF free standing Postdoctoral Fellowship, National Research Foundation South Africa (2012-2014)**
- **Awarded Claude Leon Foundation Postdoctoral fellowship, Claude Leon Foundation, South Africa (2012-2014).**
- **Awarded Rhodes University Postdoctoral fellowship, Rhodes University, Grahamstown, South Africa.**
- **Awarded GSEP Fellowship, Canadian Commonwealth Exchange Program, Asia-Pacific from Foreign Affairs and International Trade Canada (DFAIT) (Nov 2009- April 2010).**

Ten selected Publications: (2019-2021)

1. **Singh G, Tiwari A, Kumar A et al (2021) Bioformulation development….management. Journal of Environmental Management. IF: 6.789**
2. **Dubey A, Saiyam D, Kumar A, ... et al. (2021) Bacterial Root Endophytes : ……..drought stress. 18(3) IJERPH IF: 3.390.**
3. **Singh JK, Chaurasia B, Dubey A,A Kumar*. 2021. Biological Characterization and Inst. Analytical... Sustainability. IF: 3.251**
4. **A Kumar*, A Dubey. (2020). Rhizosphere Microbiome… J Advanced Research, 24:337-352. IF: 10.479**
5. **A Dubey, ..A Kumar*, …Khan ML. (2020). Plants Endophyte.. Critical Rev. Biotechnol, IF: 8.429**
6. **Upadhyaya DC, Bagri DS, Upadhyaya CP, A Kumar, ….. 2021. Physiologia Plantarum. IF: 4.50**
7. **H Rathore, A Sharma, S Prasad, A Kumar…. (2020). Yield, Nutritional Composition.. Waste & Biomass Valorization,1-**

Publications:

- Refereed Journals: 65, Conferences : 25
- Book Chapters: 25, Edited Books: 01 - (Springer)
- Total Citations: 4343 (google scholar)
- Total Citations: 2501 (scopus)
- Total Impact Factor: 250
- H index: 28; i-10-index: 49 (Google scholar)
- Scopus citations: above 2500

9. IF: 2.851.
8. Singh JK, Ghosh P …A Kumar*. 2019. Imidazolium Based Ionic Liquids…Front. Chem. IF: 5.221.
9. A Dubey, A Kumar*, ML Khan..(2019). Growing More with Less.. Ecological Indicator, 105 (2019) 425–437. IF: 4.958.
10. Malla M, Dubey A, A Kumar*. 2019. Exploring the Human Microbiome…. Front. Immunology. IF: 7.561

GUEST FACULTY PROFILE:

Dr. PREETI DUBEY
D.O.B: 15-12-1990
G. Faculty, Department of Botany,
Dr. Hari Singh Gour Vishwavidyalaya (A Central University)
Sagar -470003 MP

Research Interest:

- **Bioenergy**
- **Plants tissue culture**
- **Assessment of Risks to human health from soil contamination.**
- **Biodiversity and conservation**
- **ICP-MS**

Doctoral Work
(Dr. H. S. Gour University Sagar):

- **Characterizing Novel bacterial Isolates for Lignocellulose Degradation**
- **Discover novel bacterial isolates from different environments & screening of these isolates for their lignocellulolytic potential.**
- **Taxonomic and functional characterization of microbial isolates from termite degraded *Butea monosperma* sample using Next Generation Sequencing.**
- **To compare the effect of chemical and biological pretreatment on biomass degradation using non-destructive techniques.**

Courses/Workshop/ Training/Symposia participated:

- **International conference :10 (2014-2021)**
- **National conference: 08 (2014-2021)**
- **Workshop: 06 (2014-2021)**
- **BEST POSTER AWARD – 05**
- **Manuscripts under review (04)**
  Submitted/Accepted 06

Book Chapters:

Lignocellulosic Biomass to Bioenergy Production: Process and Techniques for Biomass Assessment
February 2019
DOI:10.1201/9780429058271-14
In book: **Emerging Energy Alternatives for Sustainable Environment (pp.261-276)**

Publications: Five selected Research Papers:

1. **Preeti Vyas and Ashwani Kumar (2018) Biochemical and molecular characterization of cellulase producing bacterial isolates from cattle dung samples. J Adv Res Biotech 3(1):1-6.**

2. **Preeti Vyas, Ashwani Kumar, Singh S (2018) Biomass breakdown : A review on pretreatment , instrumentations and methods. Frontiers In Bioscience, Elite, 10, 155-174.**

3. **Preeti Vyas et al. 2018 Screening and Characterization of *Achromobacter***

xylosoxidans **isolated from rhizosphere of *Jatropha curcas* L. (Energy Crop) for plant-growth-promoting traits. J Adv Res Biotech 3(1):1-8.**

4. **Jitendra k.singh and Preeti Vyas. 2018Assessment of different pretreatment technologies for efficient bioconversion of lignocellulose to ethanol. Frontiers in bioscience 10(2):350-371**
5. **Preeti Vyas et al. 2019 Taxonomic and Functional Annotation of Termite Degraded Buteamonosperma (Lam.) Kuntze (Flame of the Forest) The Open Microbiology journal, 13(1): 154 -163**

Shivshankar Markam
D.O.B: 22-03-1993
Guest **Faculty, Department of Botany,**
Dr. Hari Singh Gour Vishwavidyalaya (A Central University)
Sagar -470003 MP

Research Interest:

- **Mycology**

Educational qualification

- *10th and 12th (Biology Group)*
  Eklavya Model Residential Higher Secondary School, Sijhora, Mandla M.P.
- **B.Sc. (Botany, Chemistry, Zoology)**
  Dr. Harisingh Gour Vishwavidyalaya Sagar
- **M.Sc. (Botany)**
  Dr. Harisingh Gour Vishwavidyalaya Sagar
- **Madhya Pradesh State eligibility Test (M.P. SET- 2019)**

Retired Faculty Profile:

DR. ARCHANA MEHTA
DOB: 04/09/1955

Professor

RESEARCH GRANTS RECEIVED (in lakhs):

- MPCST (02) : Rs. 7,27,000/-
- UGC (02) : Rs. 9,79,000/-
- NMPB (01) : Rs. 9,98,000/-
- MRP-UGC : Rs. 20,0000/- (Recommended)

Total = 27,04,000/-

STUDENTS SUPERVISED:

- RA (CSIR) : 01 (Pursuing)
- Ph.D. : 18 (Awarded)
- Ph.D. : 02 (Pursuing)

RESEARCH INTEREST:

- Molecular Biology
- Microbiology
- Pharmacology
- Enzymology

PUBLICATIONS:

- Refereed : 101
- Book chapters : 40
- Seminar/Symposium/abstract : 82
- Books (authored) : 02
- Total citation : 708
- Total impact factor : 61.46
- H index : 12
- *i10* index : 14

DOCTORAL WORK:

- In 1983, Department of Botany, Dr. H. S. Gour University, Sagar (M.P.)
- Biochemical studies of fruit rot of *Tricosanthes diocia* and *Solanum melongena* caused by *Fusarium* sp.

POST-DOCTORAL WORK:

- Institute of Microbiology, Czechoslovakia Academy of Sciences, Prague

COUNTRIES VISITED:

- S. Korea (Daegue), Germany (Hamburg, Munich), Czechoslovakia (Prague)

AWARDS etc.:

- Unesco and Czech Republic (1983-84).
- Short study invitation Fellowship by the Netherlands, France, Germany and England and Hungary (1984-1985).
- INSA award (INSA/German) to work at Hamburg University, Hamburg, Germany (1998).
- INSA award (Indo/German) to work with a Nobel laureate Prof. Dr. R. Huber at Max Plank Institute of Biochemistry, Munich, Germany (2001-2002).
- As guest scientist visited Biotechnology Department, Daegu University, Daegu, South Korea (Oct. 2006)
- International Fellowship (INSA/KOSEF) to work at Biotechnology Department Daegue University, Daegue, S. Korea, 2008
- Subject expert, Govt. of India, Commission for Scientific and Technical Terminology in Botany. New Delhi (2013)

TEN SELECTED PUBLICATIONS:

1 Shukla, S., Majumder, L. Ahirwal and **Mehta A. (2016).** Proposed mechanism of antibacterial mode of action of *Caesalpiniabonducella* seed oil against food-borne pathogens. ***Bangladesh Journal of Pharmacology***.11: 257-263 SCI IF 0.6.

2 Shukla S. and **Mehta A. (2015)** Anticancer potential of medicinal plants and their phytochemicals: **review. Braz. J. Bot. ,**38(2):199-210 SCI.

3 Shukla S. and **Mehta A. (2015)** *In vivo* anti-inflammatory, analgesic and antipyretic activities of a medicinal plant, *Caesalpiniabonducella* F. ***Pak. J. Pharmceutical Science***. 28(4):1517-1521. SCI IF 0.68.

4 Bharti V., **Mehta A.**, Singh S., Jain N, and Ahirwal L. **(2015**). Invivo acute toxicity, antibacterial, antiaquatic fungal, anthelminthic activity of *Lactobacillus plantarum* KP894100 and *Lactobacillus acidophilus* KP942831. ***Asian Journal of Pharmaceutical and Clinical Research*****,** 9 (1).1-5. SCOPUS.

5 Bharti V., **Mehta A.**, Singh S., Jain N, and Ahirwal L. **(2015).** Cytotoxicity of Live whole cell, Heat Killed cell and cell free extract of Lactobacillus strain in U-87 Glioblastoma cell line and MCF-7 Breast cancer cell line. ***International Journal of Probiotics and Prebiotics,*** 10 (4).153-158. 2015. SCOPUS

6 Bharti V., **Mehta A.**, Singh S., Jain N., Ahirwal L. and Mehta S. **(2015).** Bacteriocin: A novel approach for preservation of food**.** ***International Journal of Pharmacy and Pharmaceutical Sciences***. 7 (9): 20-29. SCOPUS

7 Rajoria A., **Mehta A.**, Mehta P., Ahirwal L. and Shukla S. **(2015).** Phytochemical analysis and estimation of major bioactive compoundsfrom *Triticumaestivum*L. grass with antimicrobial potential. ***Pak. J. Pharm. Sci.***, 28 (6): 2221-2225. SCI

8 Shukla S. and **Mehta A. (2014).** Comparative Phytochemical analysis and in vivo immunomodulatory activity of various extracts of Stevia rebaudiana leaves in experimental animal model. ***Frontiers in Life Science***. 8(1): 55-63 SCI

9 Ahirwal L., Singh S., Dubey M.K., Bharti V. and **Mehta A. (2014).** Investigation of Antioxidant Potential of Methanolic Extract of *Swertiachirata*Buch.Ham.***European Journal of Medicinal Plants*** 4(11): 1345-1355. SCOPUS.

10 Singh S., Rajoria A., **Mehta A.**, Mehta P., Ahirwal L. Shukla., Dubey M. K., Mishra A., Kumar R., Bharti V., and Sedha S. **(2014).** Combinational Effect

of *Cajanuscajan, Silybummarianum* and *Andrographispaniculata* on *In vivo* Antioxidant and Hepatoprotective Activities of Carbon Tetrachloride Intoxicated Albino Rats. **Annual *Research & Review in Biology*** 4(4): 665-674, SCOPUS.

2.Student Enrolment and Profile:

2.1. 1 Demand Ratio during the year			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
PG	**37**	**----**	**37**

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2020		**37**		**07**	**10 (03 Guest Faculty)**

3.Teaching Learning Process

Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)					
Number of teachers on roll	Number of teachers using ICT *(LMS, e-Resources)*	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
10 (07+03)	**10**	**MHRD Channels, LED Smart TV, Projector, Online Connection**	**04**	**01**	**NDL**

4.Seminars and Symposium and Conferences organized: (2015-2020)

- National Seminar on Plants, Microbes and Environment: Interaction, challenges and remedies, 20-21 Feb. 2016
- National Conference on Microbial Resources, Bioenergy and Human Environment, 10-11 Aug. 2017
- National Workshop on Mushroom Cultivation, Processing and Marketing, 19-20 Sept. 2017
- GIAN programme entitled 'Molecular Genetics & Genomics in Biodiversity Conservation' sponsored by MHRD, New Delhi, held during 22-26th July,2019