

GCURRICULUM VITAE

Dr. Dinesh Panwar
Village Salempur
Post Rampur Maniharan
Distt. Saharanpur-247 451,
dinespanwar@gmail.com
9927336191



Carrier Objective:

To work as an enthusiastic researcher cum academician and to develop pioneering works through innovative contribution in the field of microbiology and biotechnology.

Current Position:

Working as **Assistant Professor** in Department of Microbiology, Ch. Charan Singh University Campus, Meerut, from March 07, 2019.

Professional/ Experience Details

- Worked as **Teaching Assistant** in Department of Microbiology, Ch. Charan Singh University Campus, Meerut, from October 18, 2016 to March 07, 2019.
- Worked as **Senior Research Fellow** in DBT funded research project “Studies on chemo enzymatic treatment of black liquor for recovery of reducing sugars for bioethanol production” in Cellulose and Paper Division, Forest Research Institute, Dehradun from April 22, 2014 to October 17, 2016.
- Worked as **Lecturer** in Microbiology department in Sunrise Institute of Management and Sciences Dehradun, from October 07, 2013 to April 21, 2014.
- Worked as **Field Associate** in ICFRE funded project “Studies on natural resistance of imported woods against insects and decay fungi in Indian environment” in Forest Pathology Division, Forest Research Institute, Dehradun, from September 26, 2011 to March 31, 2012.
- Worked as **Lecturer** in Modern Institute of Technology Rishikesh, from September 01, 2008 to September 17, 2010.
- Worked as **Lecturer** in Roorkee Institute of Medical Science, from January 01, 2008 to August 31, 2008.

- 6 months M. Phil. project entitled “Isolation and characterization of Actinomycetes for the production of antimicrobials”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India.
- 6 months M.Sc. Project entitled “Determination of Microbial load and antibacterial activity of selected medicinal plants”, Shri Ram Institute for Industrial Research at Delhi.

Award/Fellowships:

- Qualified **ARS NET** 2017. SI. No. NET (I)-2017/00749. Roll No.2100301009
- Qualified **GATE** in 2009 and 2011 with GATE scores 376 and 341.
- **Best Paper** presentation award in International Conference on Technological Advancement for sustainable Agriculture and Rural Development (TASARD-India, 2017) at New Delhi India. February 20-22, 2017.
- **Senior Research Fellowship** in DBT funded research project “Studies on chemo enzymatic treatment of black liquor for recovery of reducing sugars for bioethanol production” in Cellulose and Paper Division, Forest Research Institute, Dehradun from April 22, 2014 to October 17, 2016.
- **Awarded Excellence in Teaching Award** in International Conference on Global Research Initiative for Sustainable Agriculture & Allied Sciences (GRISAAS-2019) at Hyderabad, organized by Astha Foundation, Meerut (Uttar Pradesh) during) October 20th-22nd, 2019.

Workshop/FDP

- One day international workshop on “Antimicrobial drug resistance: current scenario and future prospects” organized by College of biotechnology, SPVUAT, Meerut and funded by ICAR-NAHEP Innovation grant for College of Biotechnology, on March 18, 2021.
- One week workshop on “Introduction, Synthesis and Characterization of Nanomaterials (ISCN- 2019) organized by Centre for International Cooperation, Ch. Charan Singh University, Meerut India and Central Connecticut State University, New Britain, USA on December 16-21, 2019.
- One week Faculty Development Program on Communication for Educators organized by Teaching Learning Centre, Indian Institute of Technology (BHU) Varanasi India and supported by PMMMNTT, MHRD India. From July 15-19, 2019.
- Two Days National Seminar-cum-Workshop on “The Biodiversity Conservation and Sustainable Use of Medicinal and Aromatic Plants” organized by Department of Botany,

C.C.S. University, Meerut & Sponsored by Department of Higher Education, State Government, Uttar Pradesh during August 31st- September 1st, 2019.

- One Day Workshop on “Identification of Mushrooms and Their Cultivation” held at Department of Botany, C.C.S. University, Meerut on October 03, 2018.

Thesis Supervised

M. Phil.

- Ms. Megha Singh, M. Phil. project entitled “**Isolation identification and characterization of lactic acid bacteria from dairy and non dairy products**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2019-20).
- Ms. Pooja Dhuli, M. Phil. project entitled “**Study of soil microbial diversity of Hastinapur Gangetic region**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2019-20).

M.Sc.

- Mr. Junaid Ahmad, M.Sc. Microbiology project entitled “**Antimicrobial activity of guava leaves extracts**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2018-19).
- Ms. Rashi Tyagi, M.Sc. Microbiology project entitled “**Bioethanol production from rice straw and cauliflower leaves**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2018-19).
- Ms. Gurmeen Kaur, M.Sc. Applied Microbiology project entitled “**Bacteriological analysis of some open and packed fruit juices available in local market of Meerut**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2018-19).
- Ms. Ruchi Tyagi, M.Sc. Applied Microbiology project entitled “**A comparative study of microbial contamination in various open and packed food samples**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2018-19).
- Ms. Chanchal Kakran, M.Sc. Applied Microbiology project entitled “**Biological control of plant diseases**”, Dept. of Microbiology, C.C.S. University Campus, Meerut, India. (Session 2019-20).

Details of Academic Qualification:

- **Ph.D.** (2010-2015) in Forest Pathology Forest Pathology Division, Forest Research Institute University, Dehradun

(**Topic:** Use of antagonistic soil actinomycetes for the management of root pathogenic fungi of *Dalbergia sissoo*.)

- **M. A.** (2012-2014) in Education with 61.40%, as Private candidate from C.C.S. University, Meerut, India.
- **M. Phil.** (2006-2007) in Microbiology with 65.25%, from Dept. of Microbiology, C.C.S. University Campus, Meerut, India.
- **Post Graduation** (2004-2006) in Applied Microbiology with 69.12%, from Dept. of Microbiology, C.C.S. University Campus, Meerut, India.
- **Graduation** (2001-2004) in Biology with 54.20% from Gochar Maha Vidyalya, Rampur Maniharan, C.C.S University, Meerut.
- **Intermediate** (2001) with 59.20% from G.K.I.C. Rampur Maniharan, U. P. Board Allahabad.
- **High school** (1999) with 59.33% from G.K.I.C. Rampur Maniharan, U. P. Board Allahabad.

Area of interest and technical expertise:

Fermentation technology, Microbial production and characterization of laccase, cellulase, xylanase, amylase and other industrial enzymes, Bioconversion of lignocellulosics into ethanol, Forest pathology, Biological controls, Taxonomy of microorganisms.

Exposure to microbiological techniques:

Isolation, identification (biochemical characterization) and preservation of microorganisms, Culture purification and maintenance, Gram's staining, Acid fast staining, endospore and other staining, Poison food technique, Antimicrobial activity etc.

Molecular techniques:

Isolation and purification of DNA, RNA and proteins, Electrophoresis techniques and Polymerase chain reaction (PCR), DNA sequencing, Phylogenetic analysis, BLAST etc.

Biochemical testing:

Enzymatic assays for various lignocellulolytic enzymes, soil enzymes, Protein, polysaccharides, lignin, phenolics estimation, Physiochemical parameters of industrial effluents like BOD, COD, TS, TDS, etc.

Exposure to the instruments:

Light microscope, Electron Microscope, Autoclave, Laminar airflow, pH meter, Spectrophotometer, Ultrasonicator, PCR, Wood digester, Centrifuge, Fermenter, TLC and HPLC etc.

Computer skills:

MS Office (MS Word, MS Excel and Power point), Photoshop, Statistical software like SPSS 19, Statistica, Zenstat.

Book Chapters/ Research Papers

- Phytotoxicity and defense mechanism of two selected nanoparticles in *Eruca sativa* in Taylor Francis book “Sustainable Nanomaterial for biosystem engineering: impact, challenges and future prospects by Poonam Saini, Preeti, Dinesh panwar (Accepted) 29 October 2020.
- Environmental risk assessment of fluoride contaminated soil on *Prosopis juliflora* seedlings using biochemical and molecular parameter in Elsevier Book “Microbial Biotechnology in green remediation by Poonam Saini, Preeti, Dinesh Panwar (Accepted) 21 September 2020.
- Saini, P., Preeti, and Panwar, D. 2020. Environmental Fluoride pollution and its removal by hyperaccumulator plant *Prosopis juliflora* using phytoremediation technology. In: *Prosopis Properties Uses and Diversity*. Ronan Batista (ed.). Nova Science Publishers, New York, pp: 69-108.
- Yadav, M., Verma, M. and Panwar, D. 2020. Evaluation of Serum Immunoglobulins in Patients of Bronchial Asthma. *Asian Resonance*. Vol. 9 (2): 53-57
- Dinesh Panwar, N.S.K. Harsh and A.P. Garg. 2017. A simple technique to study intact structures of growing actinomycetes and fungi by scanning electron microscopy. *Inter. J. Appl. Curr. Res*. Vol. 1 (2): 01-08.
- Dinesh Panwar and Vipin K. Saini, 2012. Antagonistic activity of soil actinomycetes against common human pathogens, *Int. J. Pharm. Bio. Sci.* Oct; 3(4):(B) 500-506.

Abstracts

- Participated in International Conference on Global Research Initiative for Sustainable Agriculture & Allied Sciences (GRISAAS-2019) organized by Astha Foundation, Meerut (Uttar Pradesh) during October 20th-22nd, 2019.
- Panwar, D. 2020. Role of Angiotensin-Converting Enzyme 2 (ACE2) in pathophysiology of COVID-19 in target human cells. p: 25 In: *Proceedings of National Webinar on Study*

on Covid 19 organized by Society For Environmental Resources And Biotechnology Development (SERBD), India from May 01 to May 15, 2020.

- Panwar, D. and Singh, M. 2020. Bacteriocins: The modern preservatives of the food. p: 157-158. In: Proceedings of National Seminar on Modern approaches for smart agriculture, at Shobhit University, Meerut February 28-29, 2020.
- Tyagi, R. and Panwar, D. 2020. Effective utilization of rice straw for bioethanol production. p: 44 In: Proceedings of National Seminar on Ethanomedicinal wealth of India: Conservation and sustainable management at Department of Botany, R.G.P.G. College, Meerut January 29, 2020.
- Panwar, D., Singh, S. and Harsh, N.S.K. 2019. An economical method for the cultivation of medicinally important mushroom, *Ganoderma lucidum*. p: 34 In: Proceedings of National Seminar on The Biodiversity Conservation and Sustainable Use of Medicinal and Aromatic Plants at Department of Botany, Ch. Charan Singh University, Meerut August 31 to 01 September, 2019.
- Panwar, D., Rana, V. and Gupta, P.K. 2017. Bioethanol production from black liquor, waste from pulp and paper industry. p: 56. In: Proceedings of National Seminar on Microbes and Human Welfare at Jaipur National University, Jaipur. September 23-25, 2017.
- Panwar, D., Singh, S., Chandra, S., Garg, S. and Harsh, N.S.K. 2017. Extension programme for cultivation of edible and medicinal mushrooms for economic empowerment of rural women. p. 90-91. In: Proceedings of International Conference on Technological Advancement for sustainable Agriculture and Rural Development (TASARD-India, 2017) at New Delhi India. February 20-22, 2017.
- Panwar, D. and Harsh, N.S.K. 2014. Scanning Electron Microscope sample preparation for Actinomycetes without chemical fixatives. p: 198. In: Proceedings of International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India, at New Delhi India. July 9-11, 2014.
- Panwar, D. and Harsh, N.S.K. 2011. Biological control of *Fusarium solani* by rhizospheric actinomycetes. p. 45. In: Proceedings of National Seminar on Recent Advances in Fungal Biotechnology, at Forest Research Institute, Dehradun, Uttarakhand, India. September 22-23, 2011.

References

1. Dr. N.S.K. Harsh Scientist-G (Retd.), Forest Pathology Division, Forest Research Institute, Dehradun, Uttarakhand.

2. Dr. P.K. Gupta Scientist-G, Cellulose and Paper Division, Forest Research Institute, Dehradun, Uttarakhand.
3. Dr. Amit Pandey Scientist-G, Forest Pathology Division, Forest Research Institute, Dehradun, Uttarakhand.
4. Dr. Y.P. Singh Scientist-E (Retd.), Forest Pathology Division, Forest Research Institute, Dehradun, Uttarakhand.
5. Dr. Vikas Rana Scientist-F, Cellulose and Paper Division, Forest Research Institute, Dehradun, Uttarakhand.
6. Dr. A.P. Garg, Vice Chancellor, Shobhit University, Meerut, Uttar Pradesh.

Personal Profile:

Father's Name:	Bhagmal Panwar
Nationality:	Indian
Language Known:	English & Hindi
Gender:	Male
Marital status:	Married
Date of Birth:	April 15, 1983
E-mail:	dinespanwar@gmail.com, drpanwardinesh@gmail.com
Phone:	09927336191,
Mailing address:	Department of Microbiology, C.C.S. University, Meerut 250004, Uttar Pradesh
Permanent address:	Village Salempur Post Rampur Maniharan Distt. Saharanpur-247 451, Uttar Pradesh

Declaration

I hereby declare that the above information is genuine to my Knowledge.

Place: Meerut

Yours Sincerely,

Date:

(DR. DINESH PANWAR)