

PRANSHU DANGWAL
Assistant Professor
Department of Biotechnology
Govind Ballabh Pant Institute of Engineering & Technology Pauri-Garhwal-246194, Uttarakhand, INDIA
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PROFESSIONAL PROFILE

Presently working as an Assistant Professor at the Department of Biotechnology, Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand, India (An Autonomous Institute of the Government of Uttarakhand) – since **August 2017**

EDUCATIONAL QUALIFICATIONS

Ph.D. Biotechnology (Pursuing – Part Time), Uttarakhand Technical University, Dehradun
M. Tech Biotechnology (2014-2016), Graphic Era University, Dehradun
B. Tech Biotechnology (2010-2014), G.B. Pant Engineering College, Pauri Garhwal
HSC (2009) from G.G.D.S.V.M. Inter College, Uttarkashi (UK Board)
SSC (2007) from G.G.D.S.V.M. Inter College, Uttarkashi (UK Board)

ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES

- OIC Examination, Department of Biotechnology, GBPIET (August 2025 - present)
- Faculty Coordinator, Genesis Society of Biotechnology (Departmental Society), GBPIET (August 2017 - present)
- Campus Ambassador, SVEEP programme, GBPIET (August 2023 - present)
- Branch Advisor, IEEE GBPIET Student Branch – November 2021 – November 2024
- Faculty Coordinator, BTD, Student Activity Cell, GBPIET, August 2022 – August 2024
- Residential Warden, Alaknanda Hostel, August 2021 – October 2023
- University Observer: Appointed as University Observer by Veer Madho Singh Bhandari, Uttarakhand Technical University (VMSBUTU), Dehradun:
Odd Semester, Session 2019–20 at Kukreja Institute of Hotel Management, Dehradun.
Odd Semester, Session 2022–23 at Institute of Technology (IT), Gopeshwar.

PROFESSIONAL DEVELOPMENT - SHORT-TERM COURSES:

- Participated in the TEQIP-sponsored two-week online certification course on “Digital Transformation in Teacher Learning Process” conducted by IIT Bombay from April 6 to 22, 2020.
- Participated in the AICTE-sponsored one-week QIP Short-Term Course on “Nano-biotechnology in Drug Discovery, Development and Delivery” conducted by IIT Indore from March 11 to 15, 2020.
- Participated in the AICTE-sponsored one-week QIP Short-Term Course on “NMR Spectroscopy for Pharma and Biotech Research” conducted by IIT Bombay from May 14 to 18, 2018.
- Participated in the course “Interactomics: High-throughput Technologies to Study DNA and Protein Interactions” at IIT Bombay from February 24 to 28, 2018.

TRAINING/PROJECTS

- The project entitled “Comparative genomic analysis of *Pseudomonas* sp. Strain JMM” under the supervision of Prof. Rup Lal, Molecular Biology Laboratory, Department of Zoology, North Campus, University of Delhi, from January 2016 to July 2016.
- The project entitled “PCR amplification of the *Salmonella typhimurium* by specific hydrogenase gene sequence to detect the *Salmonella* species” under the supervision of Dr. Pankaj Gautam, Graphic Era University, Dehradun.
- The project entitled “Isolation & Characterization of Plant Growth Promoting Rhizobacteria from Rhizospheric Soil of Ashwagandha” under the supervision of Dr. Pavan Aggarwal, G.B. Pant Engineering College, Ghurdauri, Pauri.
- One-month summer training on “General Plant Tissue Culture Techniques on Bamboos and Medicinal Plants” under the supervision of Dr. Ajay Thakur, Scientist- D Tissue Culture Discipline, Forest Research Institute, Dehradun, from June 2013 to July 2013.

PUBLICATIONS

Research Article:

- A Research Article on “Molecular docking and simulation analysis of nimbolide with poly-galacturonase from *Aspergillus niger*: Managing black mold disease for *Allium cepa*” **Pranshu Dangwal**, Saransh Juyal, Arun Bhatt, Mamta Baunthiyal and Dev Bukhsh Singh Bioinformation, 2025; 21(5): 1050-1056.
- A Review Article on “Silver nanoparticles and its potential applications: A review” Shruti Agrawal, Manoj Bhatt, Sumit Kumar Rai, Arun Bhatt, **Pranshu Dangwal** and Pavan Kumar Agrawal Journal of Pharmacognosy and Phytochemistry, 2018; 7(2):930-937
- A Review Article on “Virtuous aspects of vicious bacterial toxins” Pankaj Gautam, Pranjali Gupta, Promila Sharma and **Pranshu Dangwal** Journal of Chemical and Pharmaceutical Research, 2015, 7(6):279-289.

Book Chapter:

- “Global and Regional Perspectives on Mango Cultivation and Disease Dynamics: A Comprehensive Analysis” Saransh Juyal, **Pranshu Dangwal**, Paras Dhiman, Murari Kumar Jha, Arun Bhatt and Mamta Baunthiyal AkiNik Publications Delhi, 2024; 29: 59- 75.
- “Anthracnose Disease in Mango: Its Impact, and Effective Management Strategies” Saransh Juyal, **Pranshu Dangwal**, Murari Kumar Jha, Paras Dhiman, Arun Bhatt and Mamta Baunthiyal AkiNik Publications Delhi, 2024; 29: 77-102.
- “Bioinformatics Tools and Techniques for Harnessing the Potential of Medicinal Plants” Arun Bhatt, Ajay Kumar, Sumit Kumar Rai, **Pranshu Dangwal**, Yamini Bamola and Swati Goswami Ancient publishing house Delhi, 2020; 17:164-194.

PROFESSIONAL MEMBERSHIP

- Member, The Indian Science Congress Association (L40082)
- Member, IEEE (97142835)

RESEARCH GUIDANCE

Total Students Supervised: **21 Students** [Undergraduate (UG): 14 students, Postgraduate (PG): 7 students]

INVITED LECTURE & PRESENTATIONS

- Delivered a lecture titled “Environmental sustainability: To envisage a healthier future” during the student induction program 2023-24 & 2024-25 at M.G. Auditorium, (GBPIET), Pauri Garhwal.
- **Poster presentation and abstract published** on “Identification of Natural Fungicide for Protection of *Allium cepa* against Black Mould Disease: A Molecular Docking and Simulation Study” under the discipline of Biotechnology, Biochemistry and Microbiology at the 14th Uttarakhand State Science & Technology Congress 2019-2020, 27-29 February 2020 at UCOST, Vigyan Dham Dehradun.
- **Oral presentation and abstract published** on “Isolation & Characterization of Plant Growth Promoting Rhizobacteria from Rhizospheric Soil of Ashwagandha” under the discipline of Biotechnology, Biochemistry and Microbiology at the 9th Uttarakhand State Science & Technology Congress 2014-2015, 26-28 February 2015 at UCOST, Vigyan Dham, Dehradun.
- **Poster presentation at** a national seminar on “Green Revolution for Sustainable Development” on 20th February 2015 at UCBMS & H Auditorium, Dehradun.

EVENT ORGANISATION/COORDINATION IN SCIENTIFIC EVENTS

- Coordinated the food festival “**Rasyaan**” at G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, during the sessions 2022-23 & 2024-25.
- Coordinated in the TEQIP III-sponsored one-week short-term course on “Technological Innovations and Challenges in Biomedical Instrumentation”, organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from 23 November to 27 November, 2020.
- Coordinated in the TEQIP III-sponsored one-week international online workshop on “Campus to Career – Webinar Series for Graduates”, organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from October 19-23, 2020.
- Coordinated the TEQIP III-sponsored two-week online international faculty development programme on “Bioinformatics, Big Data and Drug Discovery – Prospects & Challenges”, organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from September 14 to September 24, 2020.
- Organizing Committee Member in AICTE ATAL Sponsored one-week online faculty development programme on “Artificial Intelligence and Machine Learning Using Python” organized by G.B. Pant Institute of Engineering &

- Technology, Pauri Garhwal, from August 31 to September 4, 2020.
- Coordinated a two-week online industrial internship on “Current Practices in Pharma Biotech” organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from August 17 to 28, 2020.
- Coordinated & participated in the TEQIP-III-sponsored workshop on “Self-Employment” April 4-5, 2018, at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal.
- Organizing Committee Member in the “induction programme” at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from August 14 to 31, 2018.

COORDINATION/PARTICIPATION IN SCIENTIFIC EVENTS

- Organizing Committee Member in AICTE ATAL Sponsored one-week online faculty development program on “Recent Trends in Optoelectronics & Optical Communications” organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from November 15 - November 21, 2021.
- Participated in a one-week online international faculty development programme on “Blockchain & its applications” organized by G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, from July 20 to 24, 2020.
- Participated in a one-week short-term course on “Emerging Technologies and Soft Computing Techniques for Combating Climate Change and Sustainable Development” at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from 11 to 15 November 2019.
- Participated in an AICTE-recognised short-term course on “Digital Marketing and E-Commerce through ICT” at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from October 29 to November 02, 2018.
- Participated in a short-term course on “Digital Signal & Image Processing” conducted at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from June 22 to 26, 2018.
- Participated in the TEQIP-III-sponsored seminar on “Recent trends in Electrical Engineering with emphasis on Renewable Energy”, November 16-17, 2017, at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal.
- Participated in the TEQIP-III-sponsored two-day workshop on material characterisation by SEM, TEM, XRD & EBSD at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from 27 & 28 October 2017.
- Participated in a short-term course on “Digital Image Processing and its Applications” conducted at G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, from December 20 to 24, 2017.
- Participated in a seminar on “Optimization of immunohistochemistry & western blotting” on 17th February 2016 at AIIMS, New Delhi.
- Participated in training on “Cell, Molecular and Developmental Biology”, 26-31 October 2015 at Graphic Era University, Dehradun.
- Participated in the UNESCO Category 2 center on “World Natural Heritage Management & Training for Asia and the Pacific region” on 5th June 2015 at the Wildlife Institute of India, Dehradun.
- Participated in a two-day workshop on “The Largely Unseen World of Biology” on 15-16 May 2015 at Graphic Era University, Dehradun.
- Participated in a workshop on “Ecosystem Services and Innovative Financing Mechanism for Natural Resource Management” on 23rd March 2015 at Graphic Era University, Dehradun.
- Participated in the international seminar on “Our Genes and Genome – Past, Present and Future” on 04th February 2015 at I.C.F.R.E. Auditorium, Dehradun.
- Participated at a junior district scientist in the National Children's Congress on 13th November 2005 at G.I.C. Uttarkashi.

HONORS & CERTIFICATIONS

- Governor Certificate - Scouts & Guides
- NCC ‘B’ Certificate – National Cadet Corps
- NSS ‘B’ Certificate – National Service Scheme

PERSONAL PROFILE

Name : Pranshu Dangwal
 Date of Birth : 31/03/1992
 Gender : Male
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 Marital Status : Married
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Date: September 25th, 2025

(Pranshu Dangwal)