



Anjana Chauhan

House no.3 Dhanuli Sadan, Near pili kothi,
Miyanwala, Dehradun, 248001

Mob: +919568579078

Email: anjanachauhan618@gmail.com

PROFILE

Adept at creating a powerful working environment with an inquisitive approach to the task. A committed team worker, passionate about working to further enhance the services of an institution.

Research Interest: Crop improvement, germplasm collection and evaluation, climate change, molecular breeding, genetic diversity, data analysis and interpretation

EDUCATION QUALIFICATIONS

	Degree	Year	Subject	University/Institution	% of marks
1.	Ph.D. Genetics and Plant Breeding	2022	Genetics and plant Breeding	G.B. Pant University of Agriculture and Technology	77.20%
2.	M.Sc. (Ag) Genetics and Plant Breeding	2017	Genetics and Plant Breeding	G.B. Pant University of Agriculture and Technology	79.87%
3.	B.Sc. Life Science	2014	Zoology, Botany, Chemistry	H.N.B. Garhwal University	65%
4.	Higher Secondary Education Exams	2011	Physics, Chemistry Biology, EVS, English	All Saints Convent School, New Tehri	77.34%
5.	High School Examinations	2009	Science, English, Maths, Computer Science, Hindi, EVS	All Saints Convent School, New Tehri	83.42%

WORK EXPERIENCE

S. No.	Positions held	Name of the Institute	From	To
1.	Teaching Assistant	G.B. Pant University of Agriculture and Technology	August 2019	July 2020
2.	Assistant Professor	Alpine Institute of Management and Technology	August 2022	July 2023
3.	Assistant Professor	Dev Bhoomi Uttarakhand University	August 2023	July 2024

PUBLICATIONS

List of papers published in SCI Journals/WOS

S. No.	Title	Authors	Name of Journal	Volume	Page	Year
1.	Comparative assessment of Mustard (<i>Brassica juncea</i>) genotypes under <i>Populus dectoloides</i> and <i>Eucalyptus teretectornis</i> based agroforestry systems for soil carbon maintenance: An implication for climate change alleviation	Anjana Chauhan and Salil Tewari	Current Science	Accepted (Under Revision)		2025
2.	Evaluating the Role of Ascorbic Acid and Salicylic Acid in Enhancing Wheat Productivity in Late Sown Conditions (: <i>Triticum aestivum</i> l.)	Pratyasha Kumari, Anjana Chauhan* , Prerna Gupta, Paratikshya Khadka, Anjan Kumar and MD Junaid	Biochemical and Cellular Archives	24(2)	2181-2184	2024
3.	Comparative Analysis of Different Mustard Hybrids: Analyzing Growth and Yield Perspectives	Muneer Ahmad, Manisha, Sushila Arya, Tapor Pakpu and Anjana Chauhan	Journal of Environment and Bio-sciences	38	111-115	2024

4.	Assessing the Influence of Stress on Various Genotypes of Wheat : A review	Abhishek Verma, Anjana Chauhan* , Navraj Shahani Chhetri and Jhalak Khatri	Journal of Environment and Bio-sciences	38	117-122	2024
5.	Genetic dissection of physiological traits over trait-based breeding in bread wheat conferring terminal heat tolerance	Devender Sharma, Jai Prakash Jaiswal, Navin Chander Gahtyari, Anjana Chauhan , and Narendra Kumar Singh	Cereal Research Communications	49	663-671	2021
6.	Population structure, marker- trait association and identification of candidate genes for terminal heat stress relevant traits in bread wheat (<i>Triticum aestivum</i> L. em Thell)	Devender Sharma , Jai Prakash Jaiswal, Navin Chander Gahtyari, Anjana Chauhan , Rashmi Chhabra, Gautam Saripalli, and Narendra Kumar Singh	Plant Genetic Resources	18	168 - 178	2020

Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Principle Component Analysis (PCA) of Wheat Genotypes Concerning Morphological Responses to Heat Stress	Abhishek Verma, Anjana Chauhan* , Ankit Pant and Prerna Gupta	Journal of Advances in Biology and Biotechnology	2025
2.	Agronomic Performance of Wheat Varieties in Relation to Sowing Dates in Shiwalik Range of Uttarakhand, India	Md Hasnain Raza, Anjana Chauhan* and Tapor Pakpu	Asian Journal of Soil Science and Plant Nutrition	2024
3.	Growth and yield response of wheat genotypes to rainfed and irrigated conditions	Saurva Kumar, Anjana Chauhan , Hasnain, Junaid, Abhishek Verma and Paratikshya Khadka	International Journal of Research in Agronomy	2024
4.	Effect of Ascorbic Acid and Salicylic Acid on Growth and Yield of Wheat (<i>Triticum Aestivum</i> L.)	Pratyasha Kumari, Anjana Chauhan* , Manoj Kumar Shukla, Prerna Gupta and Manisha	International Journal of Basic and Applied Sciences	2024
5.	Effect of INM on Growth Indices, Yield Attributes, Yield and Economics of Wheat (<i>Triticum aestivum</i> L. emend. Fiori & Paol.)	Jagrati Chauhan, Sharad Pandey, Anupama Rawat, Anjana Chauhan and Pallavi Bhatt	Journal of Experimental Agriculture International	2024
6.	Genotype × Environment Interaction among Progeny clones of wide crosses in Sugarcane under waterlogging stress	Sonali Gaur, A.S. Jeena, Anjana Chauhan , Usha Pant, Anil Kumar and Dinesh Pandey	Frontiers in Crop Improvement	2023
7.	Impact of mining on health, environment and agroecosystem: Assessment and reclamation measures	Anjana Chauhan , Sanjeev K Morya and Sneha Kelkar	<i>In</i> Soil Restoration : Assessment and Reclamation	2023

8.	Assessing stability of Indian mustard (<i>Brassica juncea</i> L. Czern) varieties under different agroforestry systems in Tarai region of Uttarakhand	Anjana Chauhan , Salil Tewari, Usha Pant and Devender Sharma	The Pharma Innovation	2021
9.	Developing a Selection Criterion for Terminal Heat Tolerance in Bread Wheat Based on Various Morpho-Physiological Traits	Devender Sharma, J. P. Jaiswal, N. K. Singh, Anjana Chauhan , and Navin Chander Gahtyari.	International Journal of Current Microbiology and Applied Sciences	2018
10.	Chromosome Banding Patterns (Book chapter)	Anjana Chauhan	<i>In</i> Essentials of Basic and Applied Science	2024
11.	Intellectual Property Rights (Book chapter)	Anjana Chauhan , Anupama Rawat, Abhishek Kumar	<i>In</i> Essentials of Basic and Applied Science	2024

AREA OF RESEARCH

MSc. Thesis Title : "Genetic analysis of yield and its components with phenotypic and molecular characterization of stripe rust resistance in bread wheat (*Triticum aestivum* L. em. Thell)"

Guide Name: Dr. Swati

University: G.B. Pant University of Agriculture and Technology

Year of Award: 2017

Ph.D. thesis title: Climate resilience vis-à-vis $G \times E$ Interaction Studies in *Brassica* under different Microclimatic Systems

Guide's Name: Prof. Salil K. Tewari

University: G.B. Pant University of Agriculture and Technology

Year of Award: 2022

CONFERENCES

1. “Study of crossing compatibility through Interspecific hybridization among six species of Brassica genus” in International Conference on Fundamental and Applied Sciences (ICFAS2021) organized by Faculty of Science, Hazarimal Somani College of Arts and Science, Shri Manubhai Maneklal Sheth Junior College of Arts And Science, and Jayaramdas Patel College of Commerce and Management Studies, Chowpatty, Mumbai. Date: 24-26 March 2021.
2. “Carbon sequestration: A remediation to the climate crisis” in International Conference on Recent Advances in Agriculture Sciences, ICRAAS -2021, organized by Amity Institute of Organic Agriculture, Amity University.
Pp 23. Date: 16-17 March 2021.
3. " Innovative Biotechnological Approaches in Improvement of Fruit Crops" in International Conference on Innovative Horticulture and Value Chain Management – Shaping Future Horticulture, 2019 organized by ASM foundations
4. 5th World Congress on Agroforestry 2022: Transitioning to the viable world, Quebec City, Canada (Online mode)
5. Oral presentation on “Assessing climate resilience potential of Indian mustard varieties under different microclimatic conditions” in 5th International Conference on Climate change and its Impacts -2023

TRAINING/WORKSHOPS

- Quality Seed Production and Seed Quality Enhancement organized at Chandrasekhar Azad University of Agriculture and Technology, Kanpur
- Access and Sharing of Plant Genetic Resources organized by the National Seed Association of India
- Climate Change: Distress or Opportunity organized by G.B. Pant University of Agriculture and Technology
- Participated in a workshop on “The impact of climate change on modern agriculture and technology” organized by the Commission for Scientific and Technical Terminology
- 21 days Winter School in Online mode on “ Emerging problems and Recent Advances in Applied Sciences : Basic to Molecular Approaches”.

ACCOMPLISHMENTS

- Best Ph.D. thesis Award 2023 – 5th International Conference on Climate Change and its Impact 2023, AETDS Society Udhm Singh Nagar and SKUAST, Kashmir
- Delivered guest lectures on insect and pest management under Agri Clinics & Agri Business Center Scheme (for entrepreneurial development) by MANAGE Hyderabad and NABARD.
- Worked as Research Coordinator, School of Agriculture, Dev Bhoomi Uttarakhand University
- Worked as BOS (Board of Studies) member, wherein M.Sc. Genetics and Plant Breeding syllabus was structured and designed as per ICAR 6th Dean Committee
- Appointed as external question paper setter for B.Sc. Ag (Vth Sem) by Sardar Bhagwan Singh University.
- Submitted a research proposal titled “Enhancing dragon fruit production with Phytochemical and Nutritional Analysis for Improvement of rural livelihood” in SERB POWER GRANT 2024 scheme

List of Students guided for M.Sc. Thesis Research:

Name	Programme	Research Topics	Year of passing
Mr. Abhishek Verma	M.Sc. Genetics and Plant Breeding	<i>Assessing Genetic and Morphological Responses of Diverse Wheat Varieties Under Heat Stress</i>	2024
Miss. Pratyasha Kumari	M.Sc. Agronomy	<i>Effect of Foliar Spray of Ascorbic Acid and Salicylic Acid on Heat Stress Resistance in Late Sown Wheat</i>	2024
MD Hasnain Raza	M.Sc. Agronomy	<i>Effect of Different Date of Sowing on Yield and Economics of Wheat Varieties</i>	2024
Mr.Saurav	M.Sc. Agronomy	<i>Growth and Yield of Various Wheat Under Different Growing Conditions: Rainfed and Irrigated.</i>	2024

HOBBIES

Painting, upcycling waste products, gardening, cooking and reading

SKILLS

- Framing and Coordinating Research Program
- Presentation and Communication
- Data Analysis
- Command on Software like SPSS, OPSTAT and R

PERSONAL ATTRIBUTES

- Team Building and Time management
- Work with great enthusiasm and able to adjust in any circumstances
- Quick Learn abilities

LANGUAGES

English and Hindi

REFERENCES

- Prof. Salil K. Tewari, Retd. Head, Department of Genetics and Plant Breeding, School of Agriculture,
G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
Contact: 9027452224
- Prof. J.P. Jaiswal, Head, Department of Genetics and Plant Breeding, School of Agriculture,
G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
Contact: 9411159751
- Dr. Devender Sharma
Scientist, Genetics and Plant Breeding, Crop Improvement Division, ICAR-Vivekananda
Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand
Contact: 7252021791