


Curriculum Vitae

Full Name:	Dr. BABITA RANA		
Designation:	Assistant Professor		
Department:	Biotechnology		
Campus:	Birla/Chauras		
Telephone:		Fax:	
Mobile:	7467847907		
Email	rananabita8@gmail.com		
Education Qualification:	M.Sc., PhD (Biotechnology), NET		
Research Interest and Fields of Specialization			
Microbial Biotechnology, Metagenomics, Bioremediation			
Honours & Awards			
<p>Young Scientist award in the 17th Uttarakhand State Science & Technology Congress 2023, on 10th-12th February, 2023 at UCOST, Vigyan Dham, Dehradun</p> <p>Awarded with second prize in Poster Presentation in the Symposium “Topical developments in Biochemistry and allied sciences” (07th May 2016) Organized by GBPUAT, Pantnagar</p>			
Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)			
Nil			
Administrative Experience: Nil			
Conference/Symposium/Workshop Attended (last 5 years)			
<ol style="list-style-type: none"> Presented a paper entitled” Probiotic potential of some yeast sps. isolated from an ethnic beverage” through Poster presentation during the Entrepreneurship Development Programme in Biotechnology” organized by Uttarakhand Council of Biotechnology (UCB), Government of Uttarakhand, Haldi and Biotech Consortium India Limited (BCIL, New Delhi at Hemvati Nandan Bahuguna Garhwal University, Srinagar from February 27-28,2023. Represented University in Institute Academia Connect Program under One Week One Lab event (13th-19th, April 2023) held on 18th April 2023 organized by CSIR-IIP, Dehradun, India Participated and presented a paper entitled “Microbiome study of <i>Keem</i>: a traditional starter culture used for alcoholic beverage production in Jaunsar-Bawar, Uttarakhand” under the discipline Biotechnology, Biochemistry and Microbiology in the 17th Uttarakhand State Science & Technology Congress 2023, on 10th-12th February, 2023 at UCOST, Vigyan Dham, Dehradun Represented University in BIOTECH STARTUP EXPO- 2022 (BIRAC) during 9-10 June, 2022 at Pragati Maidan, New Delhi. Presented a paper entitled” Evaluation of probiotic potential of yeast strain <i>Pichia kudriavzevii</i> BRGJ4 isolated from a traditional alcoholic beverage of Jaunsari tribal region, Uttarakhand.” through Poster presentation in BIOSANGAM 2022, an international conference “Emerging Trends in Biotechnology” organized by Department of biotechnology, MNNIT, Allahabad, Prayagraj, India during 10-12 March, 2022. Presented a paper entitled “Probiotic potential of some yeast sps. isolated from a 			

traditional alcoholic beverage of Jaunsar-Bawar tribal region, Uttarakhand, India” through Oral presentation in the International Conference on “Biotechnological Interventions to Overcome the Challenges of Covid/ Post-Covid Era (BIOCoPE-2022)” (Online) organized by Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur during 24th to 25th March 2022.

7. National webinar on "Protection of Mental Health through Yoga During Pandemic COVID-19" Organized by Department of Naturopathy & Yoga, Hemvati Nandan Bahuguna Garhwal Central University, Srinagar Garhwal, Uttarakhand 16th and 17th May 2020.
8. Participated in the full agenda of the DST & ACS Workshop: UCOST Dehradun held on November 25, 2019
9. Participated in One Day Training & Capacity Building Program on “Remote Sensing and Geographic Information System” organized by Uttarakhand Space Application Centre (USAC), Department of Science & Technology, Govt. of Uttarakhand at HNB Garhwal University, Srinagar Garhwal on December 24, 2018
10. Participated in Analytical Workshop on Opportunistic and Trends in Modern Instrumentation for Science and Technology (OPTIMIST-2019) jointly organized by Department of Chemistry, Graphic Era University, Dehradun & Analytical Science Division, CSIR-Indian Institute of Petroleum, Dehradun during November 7-8, 2019
11. Participated in Young Scientist Conference during India International Science Festival 2018 held at Lucknow during 5th-8th October 2018
12. Participated in the workshop on (Under TEQIP Phase-III) “Microbial Techniques” held at Department of Biochemical Engineering, B.T. Kumaon Institute of Technology Dwarahat, Almora on during 26-28 March 2018
13. Presented poster in the Symposium “Topical developments in Biochemistry and allied sciences” (07th May 2016) Organized by GBPUAT, Pantnagar.

Key Publications

1. **Rana, B.**, Chandola, R., Sanwal, P., Joshi, G K. Microbial community structure and functional gene analysis of *Keem* (a starter culture) native to Jaunsari tribe of Uttarakhand, India. *Scientific Reports*. <https://doi.org/10.21203/rs.3.rs-2143423/v1> (Accepted).
2. **Rana, B.** and Joshi, G. K. (2023). Probiotic potential of a yeast strain *Saccharomyces cerevisiae* BGY12 isolated from an ethnic beverage of Jaunsar-Bawar region, Uttarakhand, India. *Biochem. Cell. Arch.* 23, 000-000. DOI: <https://doi.org/10.51470/bca.2023.23.2.000>
3. **Rana, B.** and Joshi, G. K. (2023). Electrophoresis: Basic Principle, Types and Applications. In: Basic Biotechniques for Bioprocess and Bioentrepreneurship, Eds. Arvind Kumar Bhatt, Ravi Kant Bhatia, Tek Chand Bhalla. *Academic Press* 183-193
4. **Rana, B.**, Chandola, R., Rawat, V., & Joshi, G. K. (2022). A Comprehensive Overview of Ethnic Food and Beverages of Jaunsar-Bawar Tribal Region, Uttarakhand, India. *Journal of Mountain Research.* 17(2), 235-242. <https://doi.org/10.51220/jmr.v17i2.27> Vol
5. **Rana, B.**, Bhattacharyya, M., Patni, B., Arya, M., & Joshi, G. K. (2021). The realm of microbial pigments in the food color market. *Frontiers in Sustainable Food Systems*, 5, 603892.
6. Kumar, A., Panwar, A. S., **Rana, B.**, & Joshi, G. K. (2020). Bacterial community structure analysis of soil treated with *Parthenium hysterophorus* L. derived green medium. *Plant Science Today*, 7(2), 281-287.
7. Raj Kumar Pandey, **Babita Rana**, Salil Tewari, Anwesa Sarkar, Ashutosh Dubey, Dinesh Chandra and Lakshmi Tewari. (2016) Exploration of Plant-Biomass Degrading Fungi for In Vitro Mycoremediation of Toxic Synthetic Dyes: *Int.J.Curr.Microbiol.App.Sciences.* 5(5): 581-592.