

## Brief Profile

<b>Name</b>	Dr Anu Priya Minhas
<b>Current Designation</b>	Scientist-B
<b>Research Discipline</b>	Parasite Bank
<b>Department / Division</b>	Parasite Bank
<b>Date of joining the current post</b>	27 <sup>th</sup> Oct, 2023
<b>Date of joining ICMR</b>	10 <sup>th</sup> March, 2022
<b>Official E-mail ID</b>	<a href="mailto:anu.minhas@icmr.gov.in">anu.minhas@icmr.gov.in</a>
<b>Educational Qualification</b>	PhD
<b>Research experience (in years):</b>	>11 Years
<b>Research Interest/Thrust Areas</b>	
Assessing existing malaria diagnostics in India, Innovations in Plasmodium Culture Systems for establishing long-term cultures, drug resistance and genetic diversity analysis of Plasmodium field isolates	
<b>Number of projects handled as:</b>	
Principal Investigator - Three	
Co-Principal Investigator -	
Co-investigator-One	
<b>Number of doctorate / post-doc students mentored</b>	
As Guide – One	
As Co-guide -	
<b>List of significant publications (Please give the details of the publications in APA format)</b>	
<ul style="list-style-type: none"> <li>• Diksha Agrawal, Monika Sharma, Ruchi Sachdeva, Pragma, <b>Anu Priya Minhas</b>. 2024. In silico B-cell epitope prediction and molecular docking of <i>Aspergillus</i> allergens targeting improved ABPA diagnosis. Journal of Asthma. <a href="https://doi.org/10.1080/02770903.2024.2419452">https://doi.org/10.1080/02770903.2024.2419452</a>.</li> <li>• Aditi Sharma, Rashmi Singh, Arzoo Kumari, Sanjeev Puri, Shailendra Kumar Arya, Ruchi Sachdeva, <b>Anu Priya Minhas</b>. 2024. Characterization of DhHal3p: Characterization of DhHal3p: A moderately thermostable FMN-Binding Flavoprotein with biomedical potential from halotolerant yeast, <i>Debaryomyces hansenii</i> using partial structure prediction. Indian Journal of Biochemistry &amp; Biophysics, Vol. 61, July 2024, pp. 430-441, DOI: 10.56042/ijbb.v61i7.4367.</li> <li>• Meganathan, A., Shekar, K., <b>Minhas, A.P.</b>, Jaganathan, M.K., Thiruvengadam, R., Ramya Devi, K.T. (2024). Utilization of Animal Waste to Produce Fertilizer, Biogas, Bio-oils, and Other Value-Added Products. In: Arya, R.K., Verros, G.D., Verma, O.P., Hussain, C.M. (eds) From Waste to Wealth. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-99-7552-5_47">https://doi.org/10.1007/978-981-99-7552-5_47</a>. Print ISBN978-981-99-7551-8. Online ISBN978-981-99-7552-5.</li> <li>• <b>Anu Priya Minhas</b> &amp; Santasabuj Das (2024). ABPA and AFRS: Addressing Prevalence, Early Diagnosis, Allergens, and Occupational Concerns, Journal of Asthma. DOI: 10.1080/02770903.2024.2303766.</li> <li>• Diksha Agrawal and <b>Anu Priya Minhas</b>. 2023. Antimicrobial Coatings for dental implants: past and present approaches. Scopus indexed Edited Book on “Functional Coatings: Innovation &amp; Challenges”, John Wiley &amp; Sons, Inc, NJ, Ed. by Raj Kumar Arya (NITJ, India), George D. Verros (Greece), J. Paulo Davim. (Portugal). ISBN: 9781394207275</li> <li>• <b>Minhas, Anu Priya</b>, Sanjeev Puri, and Ranbir Chander Sobti. 2023. "Resilience Strategies for Biodiversity</li> </ul>	

Conservation." In Biodiversity, pp. 15-22. CRC Press (Taylor & Francis). ebook ISBN. 9781003220398, <https://doi.org/10.1201/9781003220398>.

- Jashan Kaur, Simranpreet Kaur, Mukesh Kumar, Priya Krishnan, Jaspreet Kaur, **Anu Priya Minhas**. 2021. Characterization, optimization and machine learning based prediction of biosurfactant production from *Debaryomyces hansenii* CBS767. International Journal of Environmental Science and Technology, 1-14. 10.1007/s13762-021-03639-x.
- **Minhas, A.**, Kaur, B., & Kaur, J. 2020. Genomics of algae: Its challenges and applications. Pan-genomics: Applications, Challenges, and Future Prospects, 261-283.
- Sheena Raina, Anupma Thakur, Aditi Sharma, Pooja D., **Anu Priya Minhas**. Bactericidal activity of *Cannabis sativa* phytochemicals from leaf extract and their derived Carbon Dots and Ag@Carbon Dots. Materials Letters. (2020), 262, 127122.
- **Anu P. Minhas** and Dipanwita Biswas. Development of an Efficient Transformation System for Halotolerant Yeast *Debaryomyces hansenii* CBS767. Bio-protocol. Vol 9, Iss 17, September 05, 2019. 10.21769/BioProtoc.3352. (ISSN: 2331-8325).
- **Anu Priya Minhas**, Rakesh Tuli, Sanjeev Puri. Pathway Editing Targets for Thiamine Biofortification in Rice Grains. 2018. Frontiers in plant science 9 (1-8). doi: 10.3389/fpls.2018.00975.
- **Anu Priya Minhas**, Anupam Sharma, Harsimran Kaur, Yashpal FNU, Kaliannan Ganesan, and Alok K. Mondal. A conserved Ser/Arg rich motif in PPZ orthologs from fungi is important for its role in cation tolerance. J Biol Chem. 2012 Mar 2; 287(10):7301-12.
- **Minhas, Anu Priya**; Biswas, Dipanwita; Mondal, Alok K. Development of host and vector for high-efficiency transformation and gene disruption in *Debaryomyces hansenii*. FEMS Yeast Research, Volume 9, Number 1, February 2009, pp. 95-102(8).

#### Achievements/Awards/Additional Information

- **March 2024:** Nominated and selected for the four-week Common Scientist Induction Program organized by IIM Vishakhapatnam and the Capacity Building Commission, India.
- **Dec 2023:** Received Certification in "Basic course in biomedical research".
- **Dec 2021:** Selected for the Faculty Training Program on Trends in Immuno Techniques under the DBT-supported Skill Vigyan Program
- **2019-** Received Research award in UIET, Panjab University, Chandigarh.
- **2019-2022:** Received research grant from Deptt. of S&T & Renewable Energy, UT, Chandigarh
- **2012-2017:** Received DST Fast Track Young Scientist Fellowship
- **2005 – 2010:** Received CSIR-JRF Fellowship.
- **2005:** Qualified CSIR (UGC) NET JRF



Signature