

## IMLITOSHI JAMIR

Associate Professor

Dept of Biotechnology

Nagaland University

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### Research interest:

Bioprospecting anti-microbial/anti-mycotic compounds from selected plants and microbes.

Role of plant metabolite on the epigenetic mechanism of ageing and related disease.

### Academic Qualification

Degree	Year	Subject	University/institution
10 <sup>th</sup>	1999		Stella High School, Kohima, Nagaland Board
Pre-University	2001	Science	Kohima Science College, Nagaland University
B.Sc (honours)	2004	Zoology	Kohima Science College Nagaland University
M.Sc	2007	Biotechnology	University of Hyderabad
PhD	2018	Biochemistry	University of Hyderabad

### Work experience

Position	Duration	Year of joining	University/institution
Assistant professor	16 years 9 months	08/10/2007	Department of Biotechnology, SET, Nagaland University
Associate Professor	To date	05/07/2024	Department of Biotechnology, SET, Nagaland University

### Some selected publications:

1. Imchen, L., Manisekaran R., Jamir, I., Rathore, H.S., & Senthilvelan, T., (2025) A review on plant-mediated synthesis of AgNPs and their formulations for wound healing application. *Molecular Biology Reports*, 52, 419
2. Sharma, A., Goel, H., Sharma, S., Rathore, H.S., Jamir, I., Kumar, A., Thimmappa, S.C., Kesari, K.K., & Kashyap, B.K. (2024) Cutting edge

- technology for wastewater treatment using smart nanomaterials: recent trends and futuristic advancements. *Environ Sci Pollut Res*, 31, 58263–58293
3. Bidyananda, N., Jamir, I., Nowakowska, K., Varte, V., Vendrame, W.A., Devi, R.S., & Nongdam, P. (2024) Plant Genetic Diversity Studies: Insights from DNA Marker Analyses. *International Journal of Plant Biology*, 15(3), 607-640.
  4. Jamir, I., Ezung, L. Y., Merry, L., Tikendra, L., Devi, R. S., & Nongdam, P. (2024). Heavy Metals Clean Up: The Application of Fungi for Biosorption. *Geomicrobiology Journal*, 41(3), 201–212.
  5. Amom, T., Tikendra, L., Potshangbam, A.M., Bidyananda, B., Devi, R.S., Dey, A., Sahoo, M.R., Vendrame, W.A., Jamir, I., & Nongdam, P. (2023) Conservation strategies for endemic *Dendrocalamus manipureanus*: A study on genetic diversity and population structure based on molecular and phytochemical markers. *South African Journal of Botany*, 152, 106-123.
  6. Tikendra, L., Dey, A., Jamir, I., Sahoo, M.R., & Nongdam, P. (2022) Cytokinin influence on in vitro shoot induction and genetic stability assessment of *Dendrocalamus latiflorus* Munro: a commercially important bamboo in Manipur, North-East India. *Vegetos*, 35, 1085-1095.
  7. Deolal, P., Jamir, I., & Mishra, K. (2022) Uip4p modulates nuclear pore complex function in *Saccharomyces cerevisiae*. *Nucleus*, 13(1), 79-93.
  8. Hannan, A., Abraham, N.M., Goyal, S., Jamir, I., Priyakumar, U.D., & Mishra, K. (2015) Sumoylation of Sir2 differentially regulates transcriptional silencing in yeast. *Nucleic Acids Research*, 43(21), 10213-26.
  9. Tirupataiah, S., **Jamir**, I., Srividya, I., & Mishra, K. (2014) Yeast Nkp2 is required for accurate chromosome segregation and interacts with several components of the central kinetochore. *Molecular Biology Reports*, 41(2), 787-97
  10. Sonia, P., Apana, N., Tikendra, L., Dey, A., Jamir, I., Nongdam, P. (2022): Molecular Clonal Fidelity Assessment of Micropropagated orchids Using DNA Markers North-East India. *Biotechnology and Crop Improvement*, 37 (book chapter)

Web of Science ResearcherID ADE-8216-2022

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Scopus Author ID: 55978867500

Project:

1. Bioprospection of metabolite from *Dendrocalamus giganteus* associated fungal endophytes with a focus on antimicrobial compound, Funded by Nagaland University 2023

**Honours/award:**

GATE: 2007

CSIR-UGC JRF: 2007, 2011

### **Workshop/conference/programme attended**

1. NPTEL (National Programme on Technology Enhanced Learning) workshop on “Education Grid-NPTEL Workshop”, conducted jointly by IITMK, Trivandrum and Nagaland University at SET-NU, Dimapur, May 5<sup>th</sup> -7<sup>th</sup>, 2008
2. DBT sponsored training course on “In silico approach to genome analysis”, Bioinformatics centre, NEHU, Shillong, 5<sup>th</sup> -11<sup>th</sup> February, 2009
3. AICTE sponsored short term course on “advances in drug discovery”, organized by Dept. of Biotechnology, IIT-Guwahati on 20<sup>th</sup> -24<sup>th</sup> July, 2009
4. International conference on Genomes: Mechanism and function” and 82nd annual meeting of the society of biological chemist (India), at the University of Hyderabad, from December 2<sup>nd</sup> -5<sup>th</sup>, 2013
5. International conference on “Genome architecture and cell fate regulation” at University of Hyderabad, from December 1<sup>st</sup> -4<sup>th</sup>, 2014
6. 39th Orientation Programme, UGC-HRDC, NEHU, Shillong, 20<sup>th</sup> Feb – 19<sup>th</sup> Mar, 2017
7. Refresher Course on Bioinformatics, UGC-HRDC, Mizoram University, Aizwal, 22<sup>nd</sup> Mar-11<sup>th</sup> April, 2018
8. FDP on student’s induction NIT, Hamirpur, 22<sup>th</sup> -28<sup>th</sup> June, 2019
9. XI international conference on the biology of yeast and filamentous fungi at the University of Hyderabad, from 27<sup>th</sup> -29<sup>th</sup> November, 2019  
Presented Topic: A genome-wide screen identifies several genes essential for maintaining nuclear architecture and uncovers novel pathways in *S. cerevisiae*
11. NER training program on gene cloning, protein biochemistry, structure biology & bioinformatics, ACTREC, Mumbai 13<sup>th</sup> -24<sup>th</sup> January, 2020
12. Refresher course on Engineering and Technology, Mizoram University 1<sup>st</sup>-14<sup>th</sup> December, 2020
13. Short-term course on leadership development, Mizoram university, 12-18<sup>th</sup> March, 2021
14. UHV Refresher 1 FDP, All India Council for Technical Education (AICTE), 25<sup>th</sup>-29<sup>th</sup> April, 2022
15. Refresher course: Recent advance in life science, Madurai Kamaraj University, 17<sup>th</sup> -30<sup>th</sup> March, 2023.
16. Organized workshop on IP practical aspects, 23<sup>rd</sup>- 28<sup>th</sup> October 2023
17. FDP on UHV -II, 15<sup>th</sup> -20<sup>th</sup> April, 2024.
18. International conference on Biologically inspired techniques in many-criteria decision making, Nagaland University, 6<sup>th</sup>- 7<sup>th</sup> Dec, 2024