



DEPARTMENT OF BIOTECHNOLOGY  
MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

# National Hands-on Workshop on Chromatin Modification, Epigenetics and Gene Regulation

(A DBT-BUILDER sponsored workshop)

Organized by: School of Life Sciences, Jawaharlal Nehru University (JNU)

## Preamble

Eukaryotic gene expression is regulated by chromatin modifications at the transcriptional level involving a plethora of post-translation modifications, chiefly by acetylation, methylation, ubiquitination, and phosphorylation. The abundance of histone variants also influences chromatin composition. In addition, small RNA molecules such as miRNA and siRNA significantly impact target mRNA accumulation and translation. In recent years, advances in our understanding of these epigenetic influences on gene expression have been built on modern techniques and tools. In this workshop, the participants will be exposed to and skilled in rigorous hands-on techniques in this fascinating field of chromatin, epigenetics and gene regulation.

## About School of Life Sciences, JNU

SLS is a pioneer in life sciences teaching and research. SLS has been running MSc in Life Sciences, and is now running specialized MSc degree programmes in Epigenetics and Gene Regulation, in addition to that in Molecular Metabolism and Biology of Diseases and Pathomechanisms. The School also has a long history of stellar research in the broad area of life sciences, including studies on epigenetic modifications for the functional analysis of diverse organisms. This workshop is designed for **PhD students** interested in gaining hands-on experience in cutting-edge techniques to be able to apply to their own research.

## Workshop Details

- **Duration:** April 21-25, 2025
- **Eligibility:** PhD students, preferably in their 2<sup>nd</sup> or 3<sup>rd</sup> year, from any Government or Government-recognized private institute.
- **Application:** submit @ <https://shorturl.at/tmvu0>
- **Last Date of Application:** April 10, 2025
- **Selection Criteria:** One candidate per laboratory, and will be based on research topic, statement of purpose and the recommendation letter.
- **Capacity:** 15 participants
- **No TA/DA** will be provided to the candidates. Hostel accommodation may be available on payment basis.



Application and program details: <https://shorturl.at/tmvu0>

**Program Coordinator:** Prof. Ashis Kumar Nandi, SLS, JNU  
Contact: [sls\\_builder@jnu.ac.in](mailto:sls_builder@jnu.ac.in)

Scan QR Code for  
Application



Join us for an intensive learning experience in **epigenetic gene regulation!**