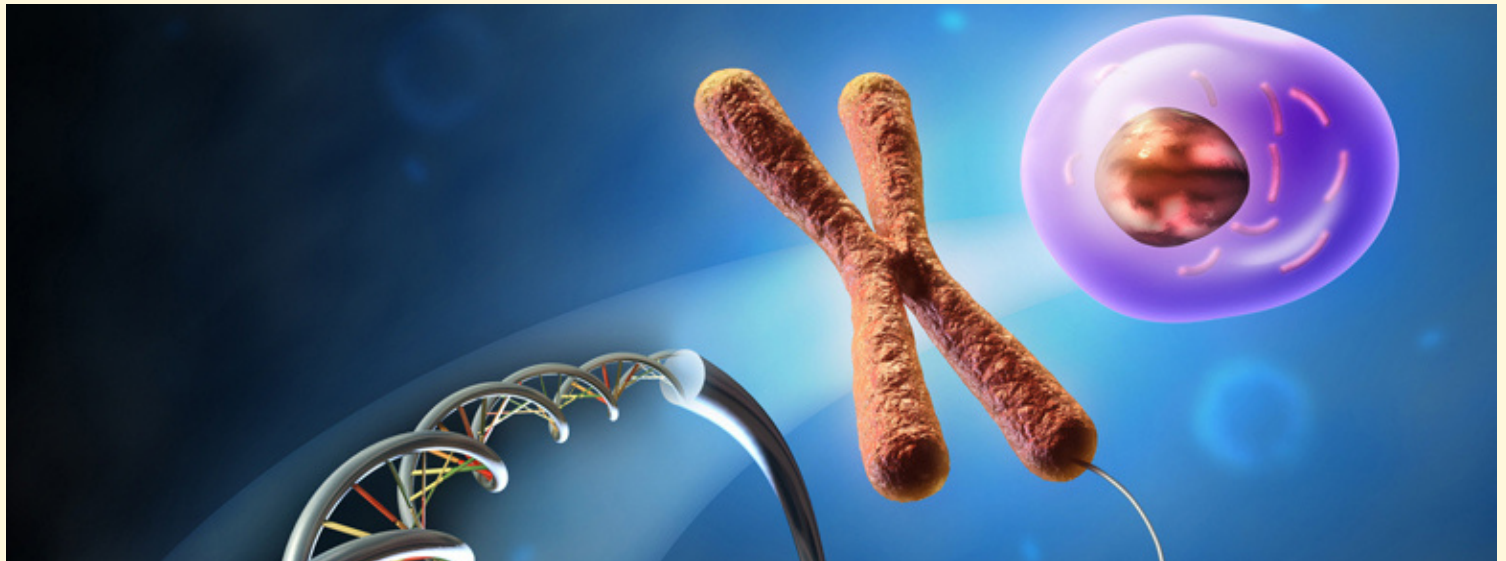




**AICTE Training And Learning Academy (ATAL)**  
***Online Faculty Development Program (FDP)***

*on*

**GENE AND GENOME TECHNOLOGY  
FOR BIOLOGISTS  
(November 22-26, 2021)**



**Organized by:**

**Bihar Veterinary College  
Bihar Animal Sciences University  
Patna, Bihar**

**Sponsored by**

**All India Council for Technical Education  
Government of India**

## **About the University**

Bihar Animal Sciences University (BASU) has been established with its headquarters at Patna through an act of Bihar State (BASU Act No. 15 of 2016, notified in the Bihar Gazette on 29 August 2016). The University became functional in June 2017. The new University has been carved out of the Bihar Agricultural University as two of its constituent colleges at Patna viz. Bihar Veterinary College and Sanjay Gandhi Institute of Dairy Technology have been transferred to the BASU, whereas a new College of Fisheries, Kishanganj has been established in 2018. To further expand the horizon of the University and strengthen the research and outreach, establishment of research institutes, stations and substations are in process.

## **About the College**

Bihar Veterinary College, Patna, the 5th oldest Veterinary College in undivided India was founded on 2nd April, 1927 by Sir Henry Wheeler, the then Governor of Bihar & Orissa. BVC developed to its full capacity and occupied a prestigious status associated with strong academic base for teaching and research in the field of Veterinary Science and Animal Husbandry as well as advanced Veterinary clinical services to the society. BVC, Patna is the only Veterinary college in Bihar which caters to the needs of the state by carrying research and extension in the field of animal health and livestock production.

The Veterinary Biochemistry remained in the forefront to impart the undergraduate and post graduate teaching and research. Since its creation, the department has expanded its facilities to suit the ever-changing needs in teaching and research. Molecular biology and enzymology laboratory are performing the advanced studies in the genomic and proteomic area. Department has the culture facility to perform the in-vitro experimentation. Apart from the basic and molecular research, the research horizon is expanded in the cutting-edge technology like nano technology.

# About FDP

The gene and genome technologies has made enormous strides in the past several years. Complete genome sequences of many organisms have been determined and published. The availability of these genome sequence data is transforming the ways in which computational and experimental biology using these organisms. Identifying genes and their function is an important application of gene technology. To cater the ever-increasing demand of food of world population, genetic selection of plant or animals using genome techniques are required. Further, to treat the inherited diseases for improvement in human and animal health the gene manipulation technologies are equally important. The purpose of this one-week FDP is to get a deep understanding on the various aspects of genes and genome technologies.

## Goals of FDP

- To understand the biology of genes
- To understand the various genome technologies used in the biological research

## Course Content

1. Epigenetics and Epigenomics: Concept, mechanism and perspectives.
2. Tools and techniques of gene analysis.
3. Application of polymerase chain reaction in gene analysis.
4. Applications of Aptamers as research tools: Problems and Solutions.
5. Application of gene manipulation in genomics and proteomics.
6. Introduction and Applications of next generation sequencing.
7. DNA repair inhibitor in cancer: bench to bed side.
8. Introduction and application of chromatography in genetic engineering.
9. Flow cytometry and its application in gene expression.
10. Application of biosensing technology.
11. Multimer staining and cancer antigen research: application and prospects.
12. Genome editing technology.
13. Gene Enrichment and pathway analysis for RNA seq data.
14. Stress management

## Who Should Attend

The programme is open to the faculty of Universities/Institutes/colleges, researchers, practitioners, industry personnel, CBSE science teachers and students working in the field of bioscience.


## Duration and Venue

The duration of the Faculty Development Programme (FDP) is 05 days (**22nd Nov – 26th Nov, 2021**), and it will be conducted online at Bihar Veterinary College, Bihar Animal Sciences University, Patna.

## Instructions to the Participants

- Interested applicants are requested to register from AICTE-ATAL web portal <http://www.aicte-india.org/atal>

### After Registration/Signup

Search the FDP application no. 1615261690 in the workshop tab by setting filter state->Bihar and month->Nov. Click on  sign in the workshop.

- There is no registration fee from any participant.
- Selection up to maximum of 200 participants will be carried out on first come first serve basis.
- If selected, he/she agree to abide by the rules and regulations of the programme and BASU, Patna, and shall attend the course for the entire duration.
- The participant will be eligible to get the E- certificate as per the rules and regulation of ATAL FDP by ATAL academy. E-certificate will be awarded on the basis of minimum 80% attendance and 60% marks in assessment.
- The last date for the receipt of application is **16th October 2021**.
- The selected candidates will be informed through e-mail from **20th October 2021**.

## Coordinator

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