

## **Animal Biotechnology Research Training Program**

This research-oriented program provides training in experimental design, omics-based data integration, molecular diagnostics, and cloning workflows with focus on translational animal biotechnology and regulatory protocols.

**Note: Below modules are designed keeping high end industrial professionals into consideration. Please refer individual protocols below for affordable prices.**

### **Design and Validation of Genetic Experiments**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Cloning and characterization of livestock-specific genes
- RNA interference and gene silencing in animal models
- Validation of expression using RT-qPCR and Western blotting
- Vector construction and transgene integration analysis

### **Functional Genomics and Disease Biomarkers**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Proteomics for detecting host-pathogen interaction markers
- SNP genotyping for genetic trait mapping in livestock
- Transcriptome and microbiome profiling using NGS
- Biomarker validation for diagnostics in veterinary labs

### **Reproductive and Translational Biotechnology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Use of bioreactors in embryo culture systems
- Ethics and regulations in animal transgenics research
- Scaling molecular diagnostics for zoonotic surveillance

- Writing research papers and ICMR/DBT-style grant proposals

## **Individual Protocols Under Animal Biotechnology Research Training Program**

1. Formulating hypotheses for animal gene function studies | **Fee: Contact for fee**
2. Cloning and characterization of livestock-specific genes | **Fee: Contact for fee**
3. RNA interference and gene silencing in animal models | **Fee: Contact for fee**
4. Validation of expression using RT-qPCR and Western blotting | **Fee: Contact for fee**
5. Vector construction and transgene integration analysis | **Fee: Contact for fee**
6. Differential gene expression analysis in diseased tissues | **Fee: Contact for fee**
7. Proteomics for detecting host-pathogen interaction markers | **Fee: Contact for fee**
8. SNP genotyping for genetic trait mapping in livestock | **Fee: Contact for fee**
9. Transcriptome and microbiome profiling using NGS | **Fee: Contact for fee**
10. Biomarker validation for diagnostics in veterinary labs | **Fee: Contact for fee**
11. Cloning efficiency optimization and embryo viability scoring | **Fee: Contact for fee**
12. Use of bioreactors in embryo culture systems | **Fee: Contact for fee**
13. Ethics and regulations in animal transgenics research | **Fee: Contact for fee**
14. Scaling molecular diagnostics for zoonotic surveillance | **Fee: Contact for fee**
15. Writing research papers and ICMR/DBT-style grant proposals | **Fee: Contact for fee**

**Please contact on +91-8977624748 for more details**

Cant Come to Hyderabad? No Problem, You can do it in Virtual / Online Mode