

## Animal Biotechnology Training Program

This program introduces participants to foundational and applied techniques in animal biotechnology including cell line maintenance, gene expression studies, and molecular diagnostics in livestock and model organisms.

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

### Fundamentals of Animal Biotechnology

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

- Classification of animal cell lines and their applications
- Animal genome structure and expression regulation
- Biosafety and bioethics in animal research
- Laboratory animal handling and welfare standards

### Animal Cell Culture Techniques

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

- Media preparation, aseptic techniques, and passaging
- Cryopreservation and revival of animal cell lines
- Mycoplasma detection and contamination control
- Trypan blue exclusion assay and viability estimation

### Basic Genetic Engineering and Reproductive Tools

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

- Introduction to microinjection and electroporation
- Basics of somatic cell nuclear transfer (SCNT)
- Artificial insemination and embryo transfer basics

- Molecular diagnostics for animal disease detection

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

1. Introduction to animal biotechnology and its scope | **Fee: Contact for fee**
2. Classification of animal cell lines and their applications | **Fee: Contact for fee**
3. Animal genome structure and expression regulation | **Fee: Contact for fee**
4. Biosafety and bioethics in animal research | **Fee: Contact for fee**
5. Laboratory animal handling and welfare standards | **Fee: Contact for fee**
6. Primary vs continuous animal cell culture techniques | **Fee: Contact for fee**
7. Media preparation, aseptic techniques, and passaging | **Fee: Contact for fee**
8. Cryopreservation and revival of animal cell lines | **Fee: Contact for fee**
9. Mycoplasma detection and contamination control | **Fee: Contact for fee**
10. Trypan blue exclusion assay and viability estimation | **Fee: Contact for fee**
11. Plasmid vectors and gene insertion techniques | **Fee: Contact for fee**
12. Introduction to microinjection and electroporation | **Fee: Contact for fee**
13. Basics of somatic cell nuclear transfer (SCNT) | **Fee: Contact for fee**
14. Artificial insemination and embryo transfer basics | **Fee: Contact for fee**
15. Molecular diagnostics for animal disease detection | **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