

## **Animal Biotechnology Summer Training Program**

This program is designed to provide foundational lab training in animal biotechnology over a summer term, focusing on animal tissue handling, culture techniques, gene-based disease testing, and assisted reproduction basics.

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

### **Animal Cell Culture and Tissue Handling**

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

- Short-term primary culture from animal organs
- Media formulation and cell plating procedures
- Cell viability checks and basic microscopy
- Cryopreservation and thawing of animal cells

### **Molecular Tools and Veterinary Testing**

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

- PCR testing for species identification and disease genes
- Gel electrophoresis and result visualization
- Rapid testing techniques for veterinary diagnostics
- Safety and ethics in animal sample handling

### **Reproductive Biotechnology Fundamentals**

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

- Artificial insemination protocols (theoretical exposure)
- In vitro fertilization steps (demo or simulation)
- Embryo staging and cryo-storage procedures

- Documentation of lab observations and case sheets

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

1. Introduction to aseptic handling of animal tissue | **Fee: Contact for fee**
2. Short-term primary culture from animal organs | **Fee: Contact for fee**
3. Media formulation and cell plating procedures | **Fee: Contact for fee**
4. Cell viability checks and basic microscopy | **Fee: Contact for fee**
5. Cryopreservation and thawing of animal cells | **Fee: Contact for fee**
6. DNA extraction from animal blood and milk | **Fee: Contact for fee**
7. PCR testing for species identification and disease genes | **Fee: Contact for fee**
8. Gel electrophoresis and result visualization | **Fee: Contact for fee**
9. Rapid testing techniques for veterinary diagnostics | **Fee: Contact for fee**
10. Safety and ethics in animal sample handling | **Fee: Contact for fee**
11. Basics of oocyte collection and sperm preparation | **Fee: Contact for fee**
12. Artificial insemination protocols (theoretical exposure) | **Fee: Contact for fee**
13. In vitro fertilization steps (demo or simulation) | **Fee: Contact for fee**
14. Embryo staging and cryo-storage procedures | **Fee: Contact for fee**
15. Documentation of lab observations and case sheets | **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