



## Animal Biotechnology Internship

### **Basic Research Approaches:**

#### **Mammalian Animals:**

1.

#### **Transcriptomics**

Analyzing RNA expression patterns in mammalian cells and tissues.

3.

#### **Functional Genomics**

Studying the role of genes in mammalian physiology.

5.

#### **Comparative Genomics**

Comparing the genomes of different avian and reptilian species.

7.

#### **Transgenic Animal Models**

Introducing foreign genes into mammals, birds, or reptiles for research.

9.

### **Metabolomics**

Analyzing small molecules involved in cellular processes in aquatic species.

11.

### **Comparative Genomics**

Studying the genomes of different fish species.

## **Therapeutic Research Approaches:**

### **Companion Animals (Dogs, Cats):**

13.

### **Stem Cell Therapy**

Utilizing stem cells for treating conditions in companion animals.

15.

### **Vaccinology**

Developing vaccines for infectious diseases affecting livestock.

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17.

### **Regenerative Medicine**

Implementing regenerative approaches for livestock health.

### **Wildlife Conservation:**

19.

### **Transgenic Animal Models**

Introducing genetic modifications in wildlife for conservation purposes.

21.