



## Biotechnology Research Solutions

Research solutions in the field of biotechnology offered by NTHRYS:

1.

### **CRISPR-Cas9 Delivery Systems**

Researching efficient delivery methods for CRISPR gene editing.

3.

### **Bioprocess Optimization**

Enhancing the efficiency of bioproduction processes for pharmaceuticals.

5.

### **Microbiome Analysis**

Studying the human microbiome for therapeutic insights.

7.

### **Drug Delivery Nanotechnology**

Developing nano-carriers for precise drug delivery.

9.

### **Biopharmaceutical Formulation**

Optimizing formulations for stability and efficacy in drug products.

11.

### **Plant Biotechnology for Sustainable Agriculture**

Improving crop yield and resistance through genetic modification.

13.

### **Diagnostic Biosensors**

Developing rapid and accurate biosensors for disease diagnosis.

15.

## **Environmental Bioremediation**

Developing biological methods to clean up polluted environments.  
17.

## **Cancer Immunotherapy Research**

Investigating immunotherapeutic approaches for cancer treatment.  
19.

## **Biological Imaging Techniques**

Advancing imaging technologies for cellular and molecular visualization.  
21.

## **Precision Agriculture**

Integrating biotech solutions for optimized crop management.  
23.

## **Insect-resistant Crops**

Developing genetically modified crops resistant to insect pests.  
25.

## **Biosafety and Biosecurity Measures**

Researching protocols to ensure safe biotechnological practices.  
27.

## **Immunogenetics**

Studying the genetic basis of the immune response for personalized medicine.  
29.

## **Aquaculture Biotechnology**

Enhancing sustainable aquaculture practices through genetic selection and disease management.