



## Aero Microbiology Publication Projects

Therapeutics:

1.

### **Bioengineering Aero-Microbial Strains for Therapeutic Delivery**

Objective: Creating bioengineered microbes as carriers for targeted drug delivery systems.

Explanation: Modifying microbes for controlled drug release and efficient delivery to specific body sites.

3.

### **Understanding Aero-Microbial Influence on Human Microbiota**

Objective: Studying how airborne microbes impact the human microbiome.

Explanation: Investigating interactions between airborne microbes and the body's microbial communities.

5.

### **Developing Strategies to Combat Airborne Antibiotic Resistance**

Objective: Finding ways to counter antibiotic resistance in airborne pathogens.

Explanation: Understanding mechanisms of resistance and developing alternative treatment strategies.

7.

### **Aero-Microbial Impact on Autoimmune Disease Development**

Objective: Investigating the role of airborne microbes in autoimmune disorders.

Explanation: Understanding how specific microbes trigger or modulate autoimmune responses.

9.

### **Developing Aero-Microbial-Based Probiotics for Human Health**

- Objective: Creating beneficial microbial formulations for health improvement.

- Explanation: Designing probiotics derived from airborne microbes for various health benefits.

Diagnostics:

1.

### **Identifying Aero-Allergens for Accurate Diagnostic Tests**

Objective: Characterizing allergens present in the air for precise allergy diagnostics.

Explanation: Cataloging and analyzing allergenic components to improve diagnostic accuracy.

3.

### **Developing Biosensors for Airborne Pathogen Detection**

Objective: Creating sensitive and specific biosensors to detect airborne pathogens.

Explanation: Engineering devices that quickly recognize and quantify specific microbes in the air.

5.

### **Establishing Aero-Microbial Signatures for Disease Prediction**

Objective: Creating profiles linking specific microbial patterns to disease development.

Explanation: Identifying microbial signatures associated with disease susceptibility or progression.

7.

### **Developing Point-of-Care Aero-Microbial Diagnostic Tools**

Objective: Designing portable diagnostic devices for immediate on-site testing.

Explanation: Creating user-friendly tools that quickly detect airborne pathogens or allergens.

9.

### **Advanced Imaging Techniques for Visualizing Airborne Microbes**

- Objective: Developing high-resolution imaging methods to visualize airborne microbial communities.

- Explanation: Utilizing advanced microscopy or imaging technologies to study individual airborne microbes.

Basic Research:

1.

### **Studying Evolutionary Trends of Airborne Pathogens**

Objective: Examining the evolutionary paths of airborne pathogens.

Explanation: Tracing genetic changes in pathogens to understand their adaptation and virulence.

3.

## Mapping Aero-Microbial Metabolic Pathways

Objective: Characterizing metabolic pathways of airborne microbes.

Explanation: Studying how airborne microbes metabolize and interact with their environments.

5.

## Deciphering Aero-Microbial Biogeography and Distribution

Objective: Mapping the distribution and dispersion patterns of airborne microbes.

Explanation: Studying how geographic and climatic factors influence microbial dispersal.

7.

## Exploring Aero-Microbial Contribution to Atmospheric Processes

Objective: Studying the role of airborne microbes in atmospheric chemistry and physics.

Explanation: Investigating how microbes affect cloud formation, precipitation, etc.

9.

## Investigating Aero-Microbial Transfer Mechanisms and Bioaerosol Dynamics

- Objective: Understanding how airborne microbes move and disseminate through the atmosphere.

- Explanation: Studying mechanisms of microbial transfer and their dynamics in the air.

## Fee Structure

Note 1: Fee mentioned below is per candidate.

Note 2: Fee of any sort is NON REFUNDABLE once paid. Please cross confirm all the details before proceeding to fee payment.

Note 3: Fee is including all taxes.

3 Months Total Fee: Rs 148480/-

Reg Fee Rs 5500/-

4 Months Total Fee: Rs 197200/-

Reg Fee Rs 5500/-

5 Months Total Fee: Rs 248240/-

Reg Fee Rs 5500/-

6 Months Total Fee: Rs 296960/-
<b>Reg Fee Rs 5500/-</b>
7 Months Total Fee: Rs 348000/-
<b>Reg Fee Rs 5500/-</b>
8 Months Total Fee: Rs 396720/-
<b>Reg Fee Rs 5500/-</b>
9 Months Total Fee: Rs 445440/-
<b>Reg Fee Rs 5500/-</b>
10 Months Total Fee: Rs 496480/-
<b>Reg Fee Rs 5500/-</b>
11 Months Total Fee: Rs 545200/-
<b>Reg Fee Rs 5500/-</b>
1 Year Total Fee: Rs 596240/-
<b>Reg Fee Rs 5500/-</b>

**Please contact +91-9014935156 for fee payments info or EMI options or Payment via Credit Card or Payment using PDC (Post Dated Cheque).**

Please check below for Payment QR Code.

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