

## MEDICAL MICROBIOLOGY & MICROBIAL BIOTECHNOLOGY

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### 1. Remembering:

- Define medical microbiology and microbial biotechnology
- Recall the history and classification of probiotics
- List the techniques used in microbial biotechnology

### 2. Understanding:

- Explain the concept of host-parasite interaction in medical microbiology
- Understand the importance of probiotics in improving human health
- Comprehend the various techniques utilized in microbial biotechnology

### 3. Applying:

- Utilize knowledge of host-parasite interaction to characterize specific diseases
- Apply understanding of probiotics in recommending appropriate dietary supplements
- Implement microbial biotechnology techniques in research and industrial settings

### 4. Analyzing:

- Analyze the complexities of host-parasite interactions in different clinical scenarios
- Evaluate the effectiveness of probiotics in improving gastrointestinal health
- Critically assess the impact of microbial biotechnology on pharmaceutical and biotechnological industries

### 5. Evaluating:

- Assess the effectiveness of different treatment strategies based on understanding of host-parasite interactions
- Evaluate the potential risks and benefits of probiotic use in clinical practice
- Judge the ethical implications of various applications of microbial biotechnology

### 6. Creating:

- Develop research proposals to investigate novel host-parasite interactions
- Formulate personalized probiotic regimens based on individual health needs
- Design innovative microbial biotechnology techniques for specific industrial applications.

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