

## Research Question Definition in Biotechnology

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#### Agricultural Biotechnology

6. How can biotechnology help in developing drought-resistant crops to ensure food security in arid regions?
7. What are the environmental impacts of genetically modified organisms (GMOs), and how can they be minimized?
8. How can biotechnology assist in developing crops resistant to multiple pests and diseases?
9. How can precision agriculture technologies be improved to enhance crop yields and sustainability?
10. What are the socio-economic impacts of adopting genetically modified crops in developing countries?

#### Biopharmaceuticals

16. How can biotechnological methods be used to accelerate vaccine development in response to emerging infectious diseases?
17. What are the most promising biologics for cancer immunotherapy, and how can their efficacy be enhanced?
18. How can biopharmaceutical manufacturing processes be made more cost-effective and sustainable?
19. What are the challenges in ensuring the affordability and accessibility of biopharmaceuticals in developing countries?
20. How can biotechnology help in developing targeted drug delivery systems for improved

patient outcomes?

## **Bioinformatics and Computational Biology**

- 26. How can big data analytics and artificial intelligence revolutionize drug discovery and development?
- 27. What are the challenges in integrating multi-omics data for comprehensive biological insights?
- 28. How can computational models assist in understanding complex biological systems and diseases?
- 29. What are the privacy and security concerns in handling large-scale genomic data, and how can they be addressed?
- 30. How can machine learning algorithms be applied to predict protein structures and functions accurately?

## **Microbial Biotechnology**

- 36. How can microbial communities be engineered for efficient bioconversion of agricultural and industrial waste?
- 37. What are the mechanisms of antibiotic resistance in pathogens, and how can new antimicrobial agents be developed?
- 38. How can biotechnology help in harnessing extremophiles for industrial applications in extreme environments?
- 39. What are the microbial factors contributing to gut health, and how can they be modulated for overall well-being?
- 40. How can biotechnological methods be used to combat emerging infectious diseases caused by novel microbes?

## Marine Biotechnology

46. What are the untapped marine genetic resources with potential pharmaceutical and industrial applications?

47. How can marine biotechnology help in developing sustainable aquaculture practices to meet global seafood demands?

48. What are the impacts of climate change on marine biodiversity, and how can biotechnology aid in conservation efforts?

49. How can marine microorganisms be utilized for the production of novel enzymes and bioactive compounds?

50. How can marine biotechnology contribute to the development of eco-friendly materials and alternative energy sources?

Please contact us if your desired focussed area is not in the above given list. We would be glad to help.

## Fee Structure

Note 1: Fee mentioned below is according to the selected duration

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.

**Research Question Definition in Biotechnology Total Fee: Rs 80000/-**

**Reg Fee Rs 24000/-**

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