

ONLINE CERTIFICATE PROGRAM IN

VACCINOLOGY: SCIENCE, TOOLS & APPLICATIONS

Explore the Science Behind Vaccine Discovery and Design

This two-hour online workshop introduces participants to the fundamentals of vaccinology, covering vaccine types, immune responses, computational vaccine design, and modern applications. Participants will gain an overview of bioinformatics tools used in vaccine research and explore current trends and future directions in vaccine development.

Course Objectives & Benefits

Date: 26 July 2026, 6:00-8:00 PM IST

- Understand the fundamentals of vaccinology and immune responses.
- Explore computational approaches to modern vaccine design.
- Learn the basics of reverse vaccinology and epitope prediction.
- Discover real-world applications of vaccines and emerging technologies.
- Receive a Government-Approved E-Certificate.
- Get access to lecture PPTs and session recordings.

Workshop Features

- Live Online Session (Google Meet)
- Expert-Led Interactive Learning
- Lecture PPTs & Session Recording
- Live Q&A with Resource Person
- Government-Approved E-Certificate

Who Can Join?

- Life Science, Biotechnology, Pharmacy & Medical Students (UG/PG)
- Research Scholars & Young Scientists
- Healthcare & Allied Professionals
- Faculty Members
- Anyone interested in Vaccinology, Immunology, and Bioinformatics

WORKSHOP HIGHLIGHTS

Fundamentals of Vaccinology

- Journey through the history and evolution of vaccines
- Understand the types of vaccines: live attenuated, inactivated, subunit, DNA, mRNA, recombinant & vector-based
- Explore how the immune system responds to vaccines
- Key components: antigens, epitopes, adjuvants, linkers & delivery systems

Bioinformatics & Computational Vaccine Design

- Sequence retrieval & structural analysis
- Epitope prediction and selection strategies
- In-silico vaccine construction workflows
- Secondary & tertiary structure modeling and validation
- Molecular dynamics & expression analysis for vaccine optimization

Applications, Challenges & Future Directions

- Current applications of vaccine technology
- Challenges in global vaccine development & deployment



COURSE FEE



Indian Participants: ₹299
Other International: \$45 US

APPLY NOW



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