CENTRE OF BIOINFORMATICS RESEARCH & TECHNOLOGY

Hands-on Training online

In silico Vaccine Design

ANTIGEN

VACCINE

About the Training

This hands-on training introduces participants to the fascinating field of computational vaccine design. Learn how vaccines can be designed using in silico approaches, supported by real-life examples and advanced bioinformatics tools. The program covers data retrieval, antigenicity and allergenicity prediction (VaxiJen, ANTIGENpro, AllerCatPro, AllerFP, AllerTop), toxicity prediction (ToxinPred), and a detailed study of epitopes with multiple prediction methods for both B-cell and T-cell epitopes.

Topics

- Introduction to in silico vaccine design, real-life examples & methods used in vaccine design
- Data retrieval, Antigenicity prediction (VaxiJen & ANTIGENpro), Allergenicity prediction (AllerCatPro, AllerFP & AllerTop)
- Toxicity prediction (ToxinPred).
- Introduction to epitopes, types & methods for epitope prediction
- B-cell epitope prediction.
- T-cell epitope prediction using IEDB and NetCTL
- Construction of primary vaccine construct
- Analysing the physicochemical properties of the vaccine construct
- Predicting the tertiary structure of a vaccine using SWISS-MODEL
- Discussion and troubleshooting

Registration Process

To get the application form and fee details, and for any other queries, write to us at info@cbirt.net or call us at +91 6398142849.

SCAN HERE

Program Benefits

- Certificates
- Access to Live Sessions
- Recordings
- Workshop Materials
- Online Technical Support Post Training

Course Instructors

Dr. Prekshi Garg, Bioinformatics Trainer, CBIRT
Dr. Tamanna Anwar, Training Organizer & CoFounder, CBIRT

DATE & TIME

6 Days
8 Oct.-15 Oct. 2025

Monday – Saturday
6:00 PM – 7:00 PM

Registration Closes
7th Oct. 2025

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info@cbirt.net

www.cbirt.net

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To register for the workshop, please submit the registration form along with your payment details. We accept multiple payment methods to ensure a convenient and secure registration process.

SCAN THE QR CODE FOR THE REGISTRATION FORM

Registration Process

STUDENTS

Upto Masters	PH.D
INR-999	INR-1199

POSTDOC/RESEARCH SCHOLARS

INR-1499

STAFF/FACULTY

INR-1749

INDUSTRY PROFESSIONALS

INR-1999

INTERNATIONAL PARTICIPANTS

(Including all Living, Working, or Studying Abroad at the time of the Workshop).

STUDENTS		POSTDOC/ RESEARCH SCHOLARS	STAFF/FACULTY	INDUSTRY PROFESSIONALS
Upto Masters	PH.D			
USD 25	USD 30	USD 35	USD 40	USD 50

Payment Methods

SCAN QR CODE

centreofbioinformaticsresearch@cnrb

UPI ID

BHIM UPI

PAYPAL ID

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ONLINE TRANSFER

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Payable to: Centre of Bioinformatics Research and Technology

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