

Hands-on Training

online

# *In silico* Vaccine Design



## 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

Registration can be done through our website at:

<https://cbirt.net/training/>.

You can also request details and the application form by reaching out to us at [info@cbirt.net](mailto:info@cbirt.net) or +91 6398142849.



## 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, Organizer & Founder, CBIRT

## DATE & TIME

6 Days  
7-12 Sept. 2026

Monday – Saturday  
6:00 PM – 7:00 PM

Registration Closes  
6<sup>th</sup> Sept. 2026

 Call us for registration & queries +91 6398142849



 [info@cbirt.net](mailto:info@cbirt.net)

 [www.cbirt.net](http://www.cbirt.net)

# Hands-on Training *In silico* Vaccine Design



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**

INR-1199

**PH.D**

INR-1299



### POSTDOC/RESEARCH SCHOLARS

INR-1499



### STAFF/FACULTY

INR-1999



### INDUSTRY PROFESSIONALS

INR-2499



### INTERNATIONAL PARTICIPANTS

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

#### STUDENTS

**Upto Masters**

USD 25

**PH.D**

USD 30

#### POSTDOC/

#### RESEARCH SCHOLARS

USD 35

#### STAFF/FACULTY

USD 40

#### INDUSTRY

#### PROFESSIONALS

USD 50

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