

BRIC-NATIONAL INSTITUTE OF IMMUNOLOGY

ADVANCED IMMUNOLOGY COURSE

The 2nd Edition

05-08 November 2025

Course Coordinators

- Dr Anna George
- Dr Soumen Basak
- Dr Devram Ghorpade
- Dr Santiswarup Singha

Deadlines

- Application Deadline: 30 Sept
- Payment Deadline: 15 Oct

Contact

immunology_course@nii.ac.in

Application Form



Scan to apply

About the course

The BRIC-National Institute of Immunology (NII), New Delhi, is offering an Advanced Immunology Course designed for Ph.D. students, postdoctoral fellows, and clinical personnel engaged in immunological research. This intensive 4-day course will feature lectures from leading experts in the field and provide in-depth insights into the latest advancements in immunology.

Content

- Model systems to study immunology
- Immune homeostasis
- Cancer Immunology
- Immuno-metabolism
- Neuroimmunology
- Vaccine Immunology
- Modelling immune responses

Registration

- Complete the Application Form and submit by **30 September 2025**.
- Given the limited number of seats, applications will be screened by a selection committee and accepted based on the candidate's current research as well as the write-up provided.
- Once an application is accepted, a payment link will be provided via email.
- The shortlisted candidate has to pay a registration fee of **INR 5000** by **15 October 2025** to complete the registration process.

ADVANCED IMMUNOLOGY COURSE

05-08 NOVEMBER 2025

Content and Schedule

Day 1 | Model systems to study immune responses:

This module will cover model systems for studying immune responses, spanning innate and adaptive immunity, survival without adaptive defenses, evolutionary trade-offs in immunity, and molecular control of inflammation.

Experts: Dr Arnab Mukhopadhyay (BRIC-NII), Prof Imroze Khan (Ashoka University), Dr Soumen Basak (BRIC-NII) and Dr Anna George (BRIC-NII, CMC Vellore)

Day 2 | Immune homeostasis and Cancer immunology:

This module will span host–microbe interactions in intestinal health and disease, clinical and mechanistic insights into inflammatory bowel disease, and advances in cancer diagnosis and treatment. Sessions will cover precision medicine, immunotherapy—including CAR T cells, APC-based strategies, and adoptive T-cell therapy.

Experts: Dr Anna George (BRIC-NII, CMC Vellore), Prof Vineet Ahuja (AIIMS-Delhi), Prof. Amit Dutt (DU) and Dr Santiswarup Singha (BRIC-NII)

Day 3 | Immuno-metabolism and Neuroimmunology:

This module will examine the intersection of immunity, metabolism, and the nervous system—spanning T-cell metabolic programming from activation to exhaustion, systemic immune–metabolic interactions, and will conclude with insights into neuroimmunology, highlighting immune influences on brain function and the brain’s regulatory impact on immunity.

Experts: Dr Shilpak Chatterjee (IICB), Dr Aneesh Arimbasseri (BRIC-NII), Dr Parul Mehrotra (IIT-Delhi) and Dr Hiya Ghosh (NCBS)

Day 4 | Vaccine immunology, AI, and Modelling immune responses:

This module will cover vaccine immunology from the fundamentals to cutting-edge approaches—examining how T and B cells shape durable immune protection and how these insights inform next-generation vaccine design. It will also introduce mathematical modelling of antibody responses and AI/ML applications in immune recognition

Experts: Dr Devinder Sehgal (BRIC-NII), Dr Nimesh Gupta (BRIC-NII), Prof Narendra Dixit (IISc) and Dr Debasisa Mohanty (BRIC-NII)