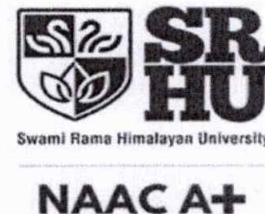




Department of Medical Education
Himalayan Institute of Medical Sciences
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Dean, HIMS

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Dr. Neha Sharma.
Dr. Shaili Vyas.

HIMS/DME/2026/032

Date: 12.03.2026

CME

Date : 14.03.2026

Day : Saturday

Time: 08:30 AM – 09:30 AM

**Venue: Adi-Kailash Auditorium
(Near - Emergency Building)**

First 10-minute Topic: "Local flaps in facial reconstruction"

Presenter: Dr. Amborish Nath, Plastic Surgery Department

Topic: "Epitope Mapping in Precision Therapeutics: The Road Less Travelled Toward Targeted and Personalized Interventions"

Presenter: Dr Kiran Bhat, Professor and Head, Biochemistry

Abstract:

Precision therapeutics seeks to improve clinical outcomes by aligning treatments with individual molecular and immunological profiles. One promising yet relatively underexplored strategy in this field is epitope mapping—the systematic identification of antigenic determinants recognized by B-cell and T-cell receptors. This approach represents a "road less travelled" toward truly personalized therapeutics, as it enables immune targeting at the highest possible resolution.

Recent technological advances have transformed epitope mapping into a high-throughput, data-driven discipline. Peptide microarrays now allow simultaneous screening of thousands of epitopes, while phage display platforms and next-generation sequencing enable unbiased identification of immunodominant and subdominant immune targets. In oncology, large-scale tumour sequencing and immunopeptidomes studies have demonstrated that epitope-guided neoantigen selection enhances responses to cancer vaccines and adoptive T-cell therapies, with emerging clinical data showing improved progression-free survival in selected patient cohorts. Monoclonal antibody development increasingly relies on fine epitope characterization to optimize binding specificity and reduce immunogenicity.

Importantly, the utility of epitope mapping extends beyond cancer. In autoimmune and infectious diseases, epitope-level analysis helps distinguish pathogenic from protective immune responses, enabling targeted immunomodulation. Quantitative associations between epitope-specific immune signatures and disease severity, prognosis, and therapeutic response underscore its value as a biomarker discovery tool.

All Faculty & Post Graduate Residents are required to attend the CME.

Department: Biochemistry

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