



UP-UK MICROCON 2026

21st Annual Conference of UP-UK

Chapter of Indian Association of Medical Microbiologists

Theme - Advances in Clinical Microbiology: Shaping Patient Care

Pre - Conference Workshop

Workshop No.05: Emerging Technologies and Automation in Serological and Microbial Immunology: Translating Laboratory Efficiency into Clinical Excellence.

Organising Department: Department of Microbiology, SGPGIMS, Lucknow

Course Coordinator: Dr. Rungmei S K Marak, Dr Anju Dinkar, Dr Nidhi Tejan

Resource persons: Dr. Rungmei S K Marak, Dr Anju Dinkar, Dr Nidhi Tejan,

Dr Shampa Anupurba, Dr Jaya Garg, Dr Suruchi Shukla, Dr. Surbhi

Target Participants: MD Microbiology Residents, M.Sc. Microbiology, Ph.D. Students, Faculty members

Maximum number of participants: 20

Duration: One Day

Date: 06.02.2026

Venue: Seminar room, Department of Microbiology, SGPGIMS, Lucknow

Workshop Overview & Key Highlights

1. QuantiFERON-CMV Assay, a specialised Interferon-Gamma Release Assay (IGRA) to assess CMV-specific cell-mediated immunity, particularly in immunocompromised or transplant patients.
2. CLIA analyzer
3. Detection of IL-6 and IL-10 by Enzyme-Linked Immunosorbent Assay (ELISA)
4. MiniVidas platform for demonstration of new parameters
5. TPHA Testing and Interpretation
6. Brucella and Borrelia ELISA
7. Weil-Felix test for Rickettsial infections

Agenda : Emerging Technologies and Automation in Serological and Microbial Immunology: Translating Laboratory Efficiency into Clinical Excellence.

Timing	Topic	Resource Faculty
08:00 AM - 08:45 AM	Registration	
08:45 AM - 09:00 AM	Registration & Pre-test	
09:00 AM - 09:10 AM	Inaugural remarks	Dr. Rungmei S K Marak, Organizing Chairperson
09:10 AM - 09:30 AM	Recent update on HIV infection	Dr. Shampa Anupurba
09:30 AM - 09:50 AM	Role of Biomarkers in clinical infectious diseases	Dr. Jaya Garg
09:50 AM - 10:10 AM	Recent Advances in Immunodiagnosis	Dr. Suruchi Shukla
10:10 AM - 10 30 AM	Tea Break	
10:30 AM - 12:00 Noon	Hands-on Practical Session I (2 Batches)	Automation in Serology: ELFA & CLIA platforms
12:00 Noon - 01:30 PM	Hands-on Practical Session II (2 Batches)	QuantiFERON-CMV Assay, a specialised Interferon-Gamma Release Assay (IGRA) to assess CMV-specific cell-mediated immunity, particularly in immunocompromised or transplant patients
01:30 PM - 02:00 PM	Lunch Break	
02:00 PM - 02:30 PM	Hands-on Practical Session III (2 Batches)	Detection of IL-6 and IL-10 by Enzyme-Linked Immunosorbent Assay (ELISA)
02:30 PM - 03:00 PM	Hands-on Practical Session IV (2 Batches)	TPHA Testing and Interpretation
03:00 PM - 03.30 PM	Tea Break	
03.30 PM - 04.00 PM	Hands-on Practical Session V (2 Batches)	Brucella & Borrelia ELISA Testing and Interpretation
04.00 PM - 04.30 PM	Hands-on Practical Session VI (2 Batches)	Weil-Felix Reaction and Interpretation
04:30 PM - 04:40 PM	Post-test & Feedback	
04:40 PM - 05:00 PM	Valedictory & Certificate distribution	