

National Conference Electron Microscopy in Biological & Material Sciences 2026

Confocal and Super-Resolution Microscopy	
Wednesday, May 6, 2026 (Room No. UG 16)	
8:00-9:00 am	Registration (UG 05, EMF, Basement (-1) Convergence Block)
9:00-10:00 am	Dr Shridhar Tiwari, Leica Microsystems India and SEA. Lecture 1: Basic Applications of Confocal Microscopy
10:00-11:30 am	Hands on: 1 Mr. Vishal /Pranav/Leica/Zeiss Group A: Basic imaging on Confocal Microscopy Group B: Basic imaging on Super Resolution Microscopy
11:30-11:45	Tea Break
11:45-1:00 pm	Hands on: 2. Mr. Vishal /Pranav/Leica/Zeiss Group A: Basic imaging on Super Resolution Microscopy Group B: Basic imaging on Confocal Microscopy
1:00-2:00 pm	Lunch break
2:00-3:00 pm	Rishi Kant, ZEISS Research Microscopy Solutions Lecture 2: Lattice SIM Based Super resolution Imaging: Unravelling the Sub cellular domain.
3:00-4:30 pm	Hands on: 3. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on confocal Microscopy (FRET) Group B: Advance imaging on super resolution (SIM, TIRF)
4:30-6:00 pm	Hands on: 4. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on super resolution (SIM, TIRF) Group B: Advance imaging on confocal Microscopy (FRET)
Thursday, May 7, 2026 (Room No. UG 16)	
9:00-10:00	Prof. Tony George Jacob, Department of Anatomy, AIIMS, New Delhi Lecture 3: Application of fluorescence microscopy in biomedical science
10:00-11:30 am	Hands on: 5. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on confocal Microscopy (FRAP) Group B: Advance imaging on super resolution (PALM, STORM)
11:30-11:45	Tea Break
11:45-1:00	Hands on: 6. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on super resolution (PALM, STORM) Group B: Advance imaging on confocal Microscopy (FRAP)
1:00-2:00 pm	Lunch Break
2:00-3:00 pm	Dr. Saumitra Dey Choudhury, AIIMS, New Delhi Lecture 4: Breaking the Blur: The Evolution of Light Microscopy from Bulk Fluorescence to Super-Resolution
3:00-4:00 pm	Hands on: 7. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on confocal Microscopy (Image Analysis) Group B: Advance imaging on SRM (Apotome, FRET, FRAP)
4:00-5:00 pm	Hands on: 8. Mr. Vishal /Pranav/Leica/Zeiss Group A: Advance imaging on SRM (Apotome, FRET, FRAP) Group B: Advance imaging on confocal Microscopy (Image Analysis)
5:00-6:00 pm	Evaluations and Valedictory (Seminar Room UG-5)

Preconference Workshop