



Anaerobes in Clinical Practice:

Identification, Antimicrobial Susceptibility Testing and Therapeutic Challenges

8th October 2026

Anaerobes cause many serious, under-recognised infections, yet few laboratories isolate and test them confidently. This workshop moves from anaerobe biology through cultivation, specimen handling, MALDI-TOF and molecular identification, to antimicrobial susceptibility testing and the rising challenge of antimicrobial resistance (AMR) in anaerobes: blending lectures, hands-on bench work and case discussion to sharpen diagnosis and guide better antibiotic choices.

WORKSHOP DETAILS

Theme: Anaerobes in Clinical Practice:

Identification, Antimicrobial Susceptibility Testing and Therapeutic Challenges

Date: October 8th, 2026

Venue: AIIMS Bathinda, Punjab

Conducted by: Dr Archana Angrup, Additional Professor, Department of Medical Microbiology, PGIMER Chandigarh

LEARNING OBJECTIVES

- Cultivation & anaerobiosis: maintain anaerobic conditions using chambers, jars, and sachets
- Specimen to result: collect, transport and process specimens correctly to protect fragile anaerobes.
- Isolation & identification: read primary cultures and identify anaerobes by phenotypic tests and molecular methods.
- Case-based learning: correlate laboratory findings with clinical scenarios to guide management.

RESOURCE FACULTY



Dr Archana Angrup
Additional Professor
Department of Medical Microbiology
PGIMER, Chandigarh



Dr Shashwati Nema
Professor
Department of Microbiology
AIIMS, Bhopal



Dr Jai Ranjan
Assistant Professor
Department of Microbiology
AIIMS, Bathinda



Dr Bhawna Sharma
Assistant Professor
Department of Microbiology
AIIMS, Bathinda

Join our masterclass on anaerobes for an intensive, hands-on workshop designed to equip microbiologists and clinicians with the practical skills to isolate, identify and test anaerobes with confidence, sharpening diagnosis and guiding better treatment in the face of rising antimicrobial resistance.



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PROGRAM SCHEDULE

TIME	TOPIC	SPEAKER
8:30 am - 9:00 am	Registration / Pre-Evaluation Test	Organising Team
9:00 am - 9:15 am	Welcome address and Workshop Introduction	Dr Bhawna Sharma
9:15 am - 9:50 am	Role of Anaerobes in human health and disease: Spectrum of anaerobic infections	Dr Archana Angrup
9:50 am - 10:30 am	Anti Microbial Resistance in Anaerobes	Dr Shashwati Nema
10:30 am - 11:10 am	Methods of growing anaerobes: Techniques and media	Ms. Tanvi Vashist
11:10 am - 11:30 am	<i>Tea Break</i>	
11:30 am - 12:10 am	Specimen collection & transport	Ms. Divya Nair
12:10 pm - 1:00 pm	Practical Session I Overview of the practical session: inoculation and preparation of media, preparation of stock culture, inoculation of specimen, maintenance of anaerobiosis (using gaseous mixtures and Gas paks), setting of anaerobic jars, quality controls & indicators	Dr Jai Ranjan, Mrs. Kiran Bala, Ms. Tanvi Vashist, Ms. Divya Nair, Mr. Sanskar Sodhi
1:00 pm - 2:00 pm	<i>Lunch & Networking</i>	
2:00 pm - 2:45 pm	Identification of anaerobic bacteria: MALDI-TOF MS & VITEK MS	Dr Bhawna Sharma
2:45 pm - 3:30 pm	Practical Session II Hands-on practical session with anaerobic culture and identification Examination and identification of anaerobes: Morphology, staining, colonial appearance, cultural characteristics, Special Potency Disc, VITEK MS	Dr Jai Ranjan, Mrs. Kiran Bala, Ms. Tanvi Vashist, Ms. Divya Nair, Mr Sanskar Sodhi,
3:15 pm – 3:45 pm	Identification of anaerobic bacteria: Recent advances and Molecular methods	Dr Nitika Rana
3:45 pm - 4:30 pm	Case discussion series	Dr Bhawna Sharma Dr Shashwati Nema
4:30 pm - 5:00 pm	Assessment, feedback & certificates	Organising Team

NOTE: Please be on time. Speakers will commence their sessions at the stipulated time.